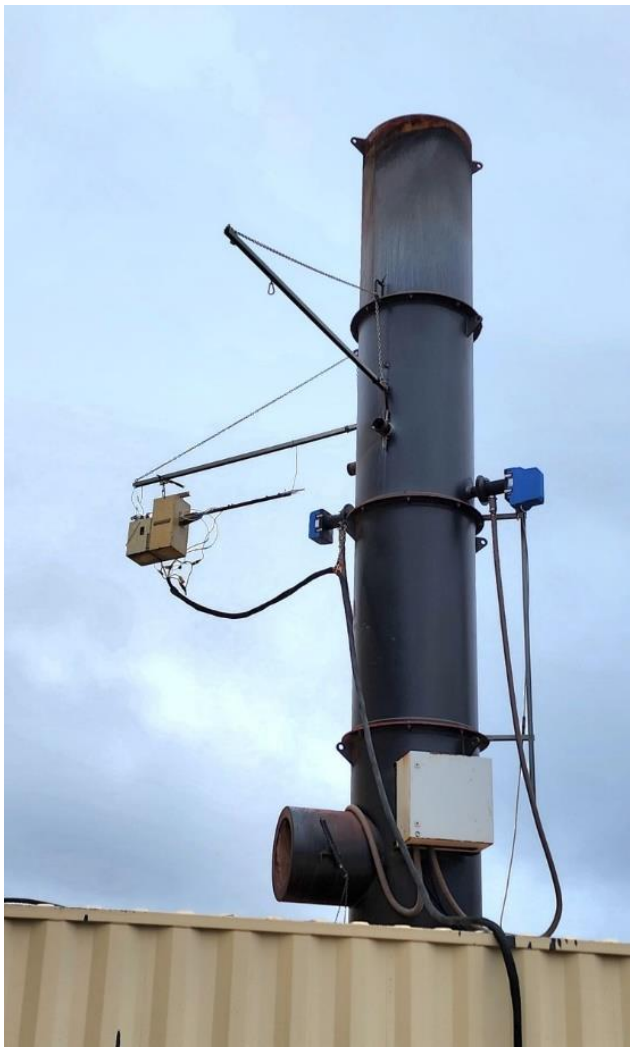
BAFFINLAND IRON MINES CORPORATION

2025 SOURCE TESTING REPORT

ECO WASTE INCINERATORS, MILNE PORT AND MARY RIVER, NUNAVUT



2025 SOURCE TESTING REPORT

ECO WASTE INCINERATORS, MILNE PORT AND MARY RIVER, NUNAVUT

BAFFINLAND IRON MINES CORPORATION

PROJECT NO.: CA0053880.5555
2 DECEMBER 2025

WSP Canada Inc.
160 Traders Blvd., E. Unit 3
Mississauga, Ontario, L4Z 3K7

WSP.com

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EXECUTIVE SUMMARY

Baffinland Iron Mines Corporation (Baffinland) retained WSP Canada Inc. (WSP) to conduct dioxin/furan/dioxin-like PCBs (D/F/DLPCB) and mercury emissions testing on two (2) Eco Waste incinerators. The incinerators are located at the Baffinland Milne Port and Mary River sites on Baffin Island, Nunavut. The incinerators are used to burn various wastes including personal domestic waste, kitchen waste, dewatered sewage sludge, paper, packaging, lumber and textiles, documents, and clinical and medical waste.

Testing was performed as part of Baffinland's permit obligations to the Nunavut Government. The program was designed to compare in-stack concentrations against the applicable Canadian Council of Minister of the Environment (CCME) Canada-Wide Standards (CWS).

Testing was conducted on the following dates:

- September 7 to 9, 2025 on the Milne Port Eco Waste incinerator; and
- September 11 to 13, 2025 on the Mary River Eco Waste incinerator.

Testing on the Eco Waste incinerators was carried out during normal burns of unsorted camp waste. The waste quantities were recorded as the number of bags and food waste placed in the incinerators for each daily test.

Each batch incineration was set for 10 to 12 hours with a subsequent approximate 12 hour cool down period. Each mercury test commenced approximately 20 minutes following the beginning of each burn. Each D/F/DLPCB test followed the mercury test at approximately 2.5 hours into the burn cycle.

The testing results are summarized in Tables ES.1 to ES.5. Sampling, analysis, and reporting procedures were followed as per the Environment Canada and U.S. Environmental Protection Agency (U.S. EPA) methods.

The mercury test results for both Eco Waste units demonstrated concentrations below the CCME's CWS of 20 µg/DRm^3 corrected to 11% O_2 for municipal waste incineration.

The D/F/DLPCB test results for the Milne Port Eco Waste unit demonstrated toxic equivalency (TEQ) concentrations below the CCME's CWS of 80 pg/DRm^3 corrected to 11% O_2 for municipal waste incineration.

The D/F/DLPCB test results for the Mary River Eco Waste unit demonstrated toxic equivalency (TEQ) concentrations **above** the CCME's CWS of 80 pg/DRm^3 corrected to 11% O_2 for municipal waste incineration.

This report is subject to the Appended Statement of Limitations.

Table ES.1: Average Stack Gas Characteristics

Source	Flow (DRm^3/s)*	Oxygen (% dry)	Carbon Dioxide (% dry)	Carbon Monoxide (ppm dry)	Moisture (%)	Stack Temp. (°C)
Eco Waste – Milne Port	1.36	14.9%	4.68%	4.00	6.09%	633
Eco Waste – Mary River	1.03	13.4%	5.91%	6.24	7.13%	749

Notes:

* DRm^3 = Dry reference cubic metres (25°C, 101.3 kPa) average of D/F/DLPCB and mercury tests

Table ES.2: Summary of In-Stack D/F/DLPCB Concentrations – Milne Port Eco Waste Incinerator

Test	In-Stack Concentration pg TEQ/DRm^3*	Criteria	% of Criteria
1	13.5		
2	38.9		
3	46.3		
Average	**32.9**	**80**	**41%**

Notes:

* pg/DR m^3 = picograms toxic equivalent (TEQ) per dry reference (25°C, 101.3 kPa) cubic metre corrected to 11% O_2

Table ES.3: Summary of In-Stack D/F/DLPCB Concentrations – Mary River Eco Waste Incinerator

Test	In-Stack Concentration pg TEQ /DRm^3*	Criteria	% of Criteria
1	417		
2	258		
3	194		
Average	**290**	**80**	**362%**

Notes:

* pg/DRm3 = = picograms toxic equivalent (TEQ) per dry reference (25°C, 101.3 kPa) cubic metre corrected to 11% O_2

Table ES.4: Summary of In-Stack Mercury Concentrations – Milne Port Eco Waste Incinerator

Test	In-Stack Concentration µg/DRm^3*	Criteria	% of Criteria
1	0.847		
2	0.436		
3	0.261		
Average	**0.515**	**20**	**2.57%**

Notes:

* µg/DRm^3 = micrograms per dry reference (25°C, 101.3 kPa) cubic metre corrected to 11% O_2

Table ES.5: Summary of In-Stack Mercury Concentrations – Mary River Eco Waste Incinerator

Test	In-Stack Concentration µg/DRm^3*	Criteria	% of Criteria
1	0.931		
2	0.763		
3	0.921		
Average	**0.872**	**20**	**4.36%**

Notes:

* µg/DRm^3 = micrograms per dry reference (25°C, 101.3 kPa) cubic metre corrected to 11% O_2

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APPENDICES

1 INTRODUCTION

Baffinland Iron Mines Corporation (Baffinland) retained WSP Canada Inc. (WSP) to conduct performance source testing on two (2) Eco Waste incinerators. One (1) Eco Waste incinerator is located at the Milne Port site. One (1) Eco Waste Incinerator is located at the Mary River site on Baffin Island, Nunavut.

The Eco Waste units were previously tested for dioxins and furans (D/F/DLPCB) in 2019, 2020, 2022, 2023, and 2024. Both units were also tested for mercury in 2019, 2023, and 2024.

Testing was conducted on the following dates:

- September 7 to 9, 2025 on the Milne Port Eco Waste incinerator; and
- September 11 to 13, 2025 on the Mary River Eco Waste incinerator.

The incinerator exhausts were tested for the following parameters:

- Exhaust gas flow characteristics (after the barometric damper);
- Mercury;
- D/F/DLPCB; and
- Combustion gases (O_2, CO_2).

The incinerators are used to burn various wastes including personal domestic waste, kitchen waste, dewatered sewage sludge, paper, packaging, lumber and textiles, documents, and clinical and medical waste.

The program was designed to measure the incinerators' emissions once stable operations were obtained. Stable operation was defined as the incinerator achieving primary and secondary temperatures achieved and maintained within the defined temperature zones.

Measured D/F/DLPCB in-stack concentrations were compared against the Canadian Council of Ministers of the Environment (CCME) Canada-Wide Standard (CWS) of 80 pg per dry reference (101.3 kPa, 25°C) cubic metre (DRm^3) corrected to 11% oxygen.

Measured mercury in-stack concentrations were compared against the CCME's CWS of 20 µg/DRm^3 corrected to 11% oxygen.

Sampling, analysis, and reporting procedures were followed per U.S. EPA Method 101A (mercury) and Environment Canada Method EPS 1/RM/3 (D/F).

1.1 SUMMARY OF TEST PROGRAM

The test contaminants included in this program and the corresponding test methods are listed below in Table 1.

Table 1: Test Parameters

Test Parameter	Sampling Method	Analytical Method
Flow Rate	EPS 1-AP-74-1 Methods A-F	Pitot Tube
Mercury	EPA Method 101A	CVAAS
D/F/DLPCB	Env. Canada EPS 1/RM/2	EPS 1/RM/3 HRMS
Oxygen/Carbon Dioxide (O_2/CO_2)	U.S. EPA Method 3A (modified)	Electrochemical / Non-dispersive Infrared
Carbon Monoxide (CO)	U.S. EPA Method 10 (modified)	Electrochemical

Notes:
CVAAS - Cold Vapor Atomic Absorption Spectroscopy
EPA – United States Environmental Protection Agency
EPS – Environment Canada's Environmental Protection Series
HRMS – High-resolution Mass Spectrometry
RM – Reference Method

1.2 TEST PROGRAM ORGANIZATION

1) Company Name: Baffinland Iron Mines Corporation
Contact Name: Eli Iannelli
Email: eli.iannelli@baffinland.com
Position: Manager, Site Services
Telephone No.: 647-253-0596 x6924

2) Sampling Company: WSP Canada Inc.
Project Coordinator: Steve McClure
Telephone No.: (416) 571-7076
Email: steve.mcclure@wsp.com
Sampling Team: Steve McClure, Andrey Zapolskiy

3) Analytical Laboratory: ALS Global
Project Coordinator: Ron McLeod
Email: ron.mcleod@alsglobal.com
Telephone No.: (905) 331-3111

2 SOURCE DESCRIPTION

Baffinland operates two (2) dual-chambered diesel fired Eco Waste incinerators, one (1) at each of the Milne Port and Mary River sites. Each of the incinerators consists of a primary and secondary chamber. Waste is manually loaded into the primary chamber whose function is to perform pyrolysis and gasification, and combustion of fixed carbon. The secondary chamber completes the combustion and minimizes black soot released from the exhaust stack.

The two (2) Eco Waste units, are near identical in design. Each has a capacity of approximately 2000 kg of waste per day.

Each batch of waste for incineration is typically constructed with a set quantity of materials, largely including unidentified camp garbage bags, some cardboard, some wastewater sludge cakes, and some expired/leftover food. At the completion of each cycle, the incinerator is allowed to cool to below approximately 45°C and is then raked out to leave the incinerator empty prior to reloading.

The Eco Waste burn cycles typically include approximately 10 to 12 hours of combustion and 12 hours of cool down.

3 TEST PROGRAM

3.1 OBJECTIVES

The purpose of the test program was to establish whether the performance of the installed equipment meet the CCME's CWS.

Test objectives include the following:

- Measurement of the exhaust gas characteristics and emission rates of the contaminants;
- Comparing in-stack concentrations to the CWS for D/F/DLPCB; and
- Comparing in-stack concentrations to the CWS for mercury.

3.2 TEST MATRIX

The test matrix for each incinerator for this program is provided below in Table 2.

Table 2: Test Matrix

No. of Runs / Incinerator	Sample/ Pollutant	Method Number	Sample Run (min)	Analytical Method	Analytical Laboratory
3	D/F/DLPCB	EPS 1/RM/2	240	GC/HRMS GC/MS	ALS Global
3	Mercury	EPA 101A	120	CVAAS	ALS Global
3	O_2	EPA Method 3A (modified)	Throughout	Electrochemical	WSP Analyzer
3	CO_2	EPA Method 3A (modified)	Throughout	Non-dispersive Infrared	WSP Analyzer
3	CO	EPA Method 10 (modified)	Throughout	Electrochemical	WSP Analyzer

Notes:
CVAAS - Cold Vapor Atomic Absorption Spectroscopy
EPA – United States Environmental Protection Agency
EPS – Environment Canada's Environmental Protection Series
HRMS – High-resolution Mass Spectrometry
RM – Reference Method

3.3 OPERATIONS AND PROCESS

Mercury tests commenced once stable operation of the incinerator secondary chamber (1000°C) was obtained and approximately 20 minutes after ignition of the burners in the primary chamber. D/F/DLPCB tests were conducted following the mercury tests approximately 2.5 hours later. At that time, primary combustion is considered stable.

Baffinland staff loaded and operated the incinerators. Waste load counts were supplied verbally by Baffinland personnel to WSP personnel. From this, batch size estimates were made. Load estimates and photographs of the loads are included in the Appendix.

3.4 SAMPLING LOCATIONS

Exhaust gases emitted from the Eco Waste incinerators are discharged through stacks having exit inner diameters of 0.80 m (31.5 in) each. Figures 1 and 2 show the two (2) incinerator stack sampling locations.

It is noted that approximately 4 diameters ahead of each of the sample locations, is located a dilution damper. These dampers are in a fixed position that is manually set and allows air infiltration into the stacks to induce flow in the stack.

Similarly, on both units, opacity meters are located immediately beneath one of the sampling traverses. These are visible in Figures 1 and 2 as the blue devices on the sides of the stacks. During operation, the opacity meters have air blowing into the stack to maintain clean windows for the opacity measurements.

The isokinetic sampling locations were located as follows:

Milne Port:

- ID: 0.80 m;
- Distance to upstream disturbance: approximately 4 diameters; and
- Distance to downstream disturbance: >2 diameters

Mary River:

- ID: 0.80 m;
- Distance to upstream disturbance: approximately 4 diameters; and
- Distance to downstream disturbance: >2 diameters

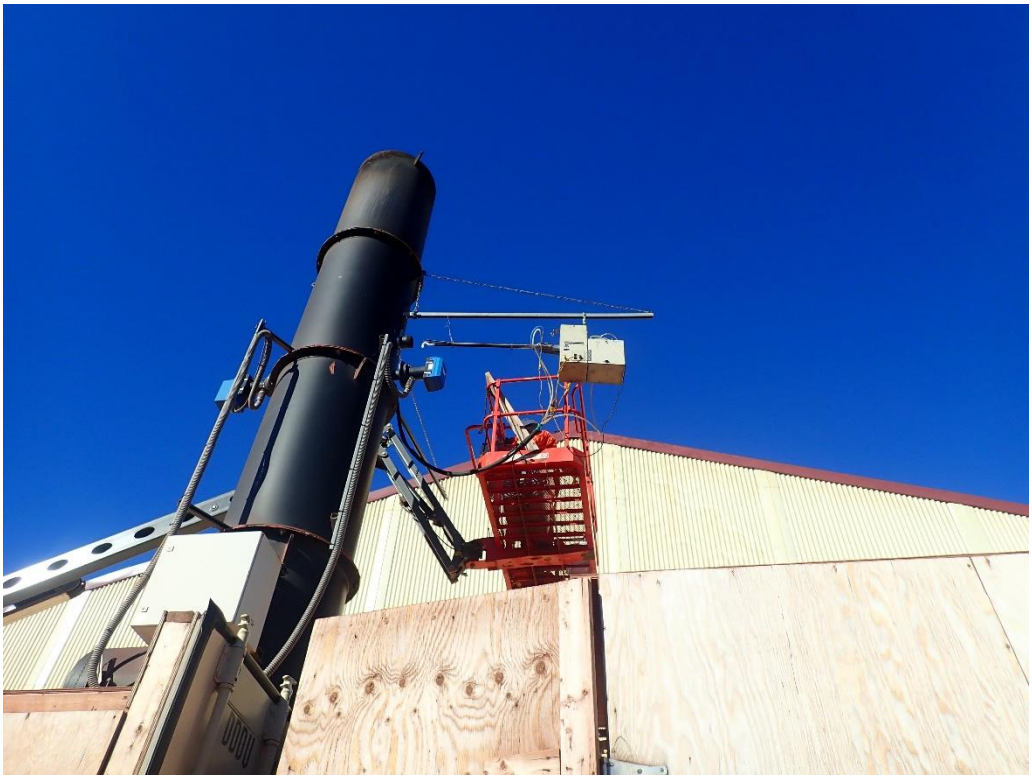

Figure 1: Eco Waste Incinerator Stack, Milne Port

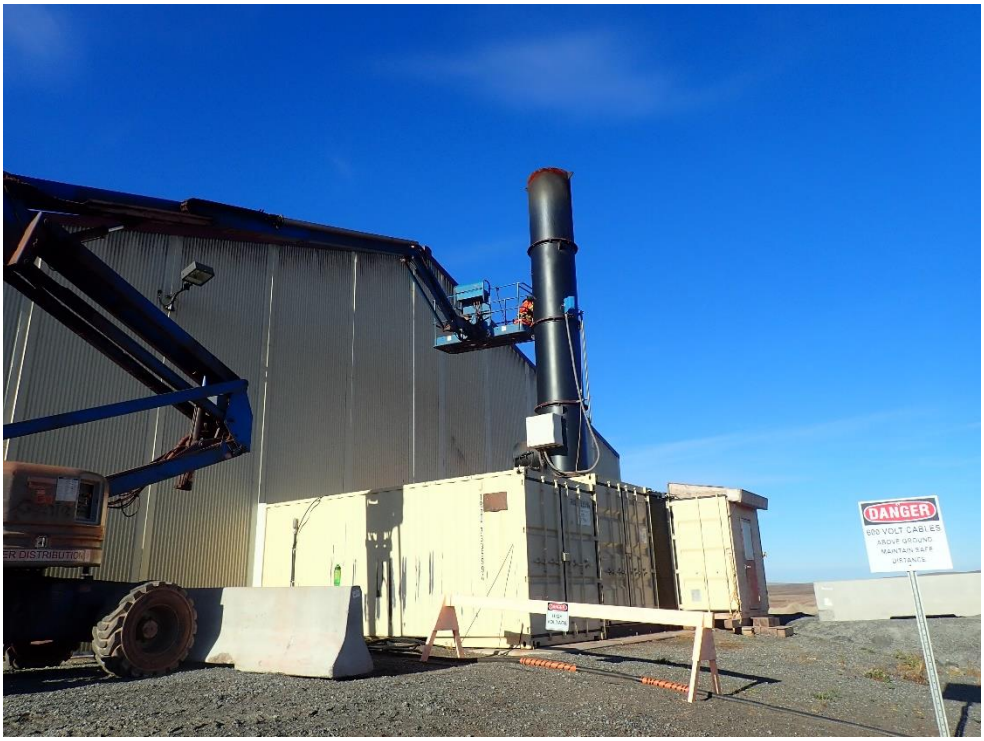

Figure 2: Eco Waste Incinerator Stack, Mary River

4 SAMPLING AND ANALYTICAL PROCEDURES

4.1 MERCURY

Sampling for mercury was conducted using a single isokinetic sampling train in accordance with US EPA Method 101A. Performance of the method involved the use of a sampling train consisting of a quartz liner, no filter, and impingers containing 10% H_2SO_4/4% $KMnO_4$ solution.

All glassware, filters and resin used for this program were cleaned as per the Reference Method prior to equipment mobilization to site. A set of blank samples was collected from a fully assembled sampling train at the beginning of the sampling program. The blank samples were analyzed and are reported in the appendices.

The sampling time per test, excluding port changes, leak checks or process interruptions, was 120 minutes. Testing was commenced approximately 20 minutes after the incinerator secondary chamber had achieved temperature of 1000°C and the primary chamber had commenced burning.

Triplicate test runs were conducted.

The following were recorded at five minutes intervals throughout the test:

- Sampling time;
- Dry gas meter;
- Volume;
- Pitot tube pressure;
- Stack gas temperature;
- Oven and impinger temperatures;
- Dry gas meter temperatures;
- Control module orifice pressure; and
- Sampling pump vacuum pressure.

Following the conclusion of each test, sampling trains were disassembled and recovered at a clean location on site. The probe, connecting glassware and impinger contents were each recovered as per the procedures outlined in the method.

4.2 DIOXINS/FURANS/DIOXIN-LIKE PCBS (D/F/DLPCB)

Sampling for D/F/DLPCB was conducted using a single isokinetic sampling train in accordance with the “Reference Method for Source Testing: Measurement of Releases of Selected Semi-Volatile Organic Compounds from Stationary Sources”, Environment Canada Report EPS 1/RM/2. Performance of the method involved the use of an integrated sampling train consisting of a quartz filter (pre-rinsed with a Hexane/Acetone solution), condenser, polymeric resin trap (XAD-2), and impingers. The use of the condenser ensured that the sample gas passing through the XAD-2 resin trap was maintained at a temperature below 20°C.

All glassware, filters and resin used for this program were cleaned as per the Reference Method prior to equipment mobilization to site. A set of blank samples was collected from a fully assembled sampling train prior to beginning the sampling program. The blank samples were analyzed and are reported in the appendices.

On the Eco Waste incinerators, the sampling time per test, excluding port changes, leak checks or process interruptions, was 240 minutes. Testing was commenced once stable operation of the incinerator was obtained, approximately two and a half hours after commencement of incineration, following the mercury emission test that day.

Triplicate test runs were conducted.

The source gas was collected using an air-cooled quartz probe and passed through a filter, condenser, XAD-2 resin, and impingers in sequence. The following were recorded at five minutes intervals throughout the test:

- Sampling time;
- Dry gas meter;
- Volume;
- Pitot tube pressure;
- Stack gas temperature;
- Oven and impinger temperatures;
- Dry gas meter temperatures;
- Control module orifice pressure; and
- Sampling pump vacuum pressure.

Following the conclusion of each test, sampling trains were disassembled and recovered at a clean location on site. The probe, filter, resin, condensate trap and impinger contents were each recovered as per the procedures outlined in the method for subsequent analysis according to the Environment Canada Method EPS 1/RM/3.

4.3 COMBUSTION GASES (O2, CO2, CO)

For the purpose of determining molecular weight and to correct for oxygen content, O_2 ,CO_2, and CO monitoring was conducted. Sample gas was monitored in the exhaust of the isokinetic sampling train, throughout the sampling period following modified US EPA Methods 3A and 10. Analyzer calibrations for O_2 were conducted with certified calibration gases brought to the site.

5 RESULTS

5.1 SCHEDULE OF THE TEST PROGRAM

The sampling program was conducted from September 7, 2025 to September 13, 2025 per the following schedule:

Table 3: Test Schedule

Test ID	Source	Date	Start	Finish
Port HG-1	Milne Port Eco Waste	September 7, 2025	11:03	13:12
Port ORG-1	Milne Port Eco Waste	September 7, 2025	13:38	17:49
Port HG-2	Milne Port Eco Waste	September 8, 2025	09:10	11:22
Port ORG-2	Milne Port Eco Waste	September 8, 2025	11:51	16:18
Port HG-3	Milne Port Eco Waste	September 9, 2025	10:38	12:45
Port ORG-3	Milne Port Eco Waste	September 9, 2025	13:00	17:15
MR HG-1	Mary River Eco Waste	September 11, 2025	07:39	09:46
MR ORG-1	Mary River Eco Waste	September 11, 2025	10:07	14:21
MR HG-2	Mary River Eco Waste	September 12, 2025	08:01	10:08
MR ORG-2	Mary River Eco Waste	September 12, 2025	10:29	14:42
MR HG-3	Mary River Eco Waste	September 13, 2025	07:53	10:04
MR ORG-3	Mary River Eco Waste	September 13, 2025	10:20	14:33

Notes:
Port – Milne Port
MR – Mary River
HG - Mercury
ORG – Organics (i.e. D/F/DLPCB)

5.2 TEST RESULTS

Results of the sampling program can be found within Tables 4 to 9. Calculations are shown in Appendix A, lab results can be found in Appendix B, and field data sheets can be found in Appendix C.

These results are subject to the Appended Statement of Limitations.

MILNE PORT RESULTS

Table 4A: Summary of Stack Gas Characteristics (D/F/DLPCB Tests) – Milne Port Eco Waste Incinerator

Test ID	Flow (DRm^3/s)[1]	Oxygen (% dry)	Carbon Dioxide (% dry)	Carbon Monoxide (ppm dry)	Moisture (%)	Stack Temp. (°C)
ORG-1	1.04	14.8	5.04	3.72	5.47	743
ORG-2	1.09	14.3	5.10	3.25	5.85	757
ORG-3	1.03	14.4	5.05	4.72	5.63	760
Average	**1.05**	**14.5**	**5.06**	**3.90**	**5.65**	**753**

[1] DRm^3 = Dry reference cubic metres (25°C, 101.3 kPa)

Table 4B: Summary of Stack Gas Characteristics (Mercury Tests) – Milne Port Eco Waste Incinerator

Test ID	Flow (DRm^3/s) [1]	Oxygen (% dry)	Carbon Dioxide (% dry)	Carbon Monoxide (ppm dry)	Moisture (%)	Stack Temp. (°C)
HG-1	1.37	14.6	4.84	3.72	7.04	624
HG-2	1.44	13.6	5.61	3.40	8.06	636
HG-3	1.39	13.9	5.06	5.19	7.84	628
Average	**1.40**	**14.0**	**5.17**	**4.10**	**7.65**	**629**

[1] DRm^3 = Dry reference cubic metres (25°C, 101.3 kPa)

Table 5: Summary of In-Stack D/F/DLPCB Concentrations – Milne Port Eco Waste Incinerator

Test	In-Stack Concentration pg TEQ/DRm^3 [1]	Criteria	% of Criteria
1	13.5		
2	38.9		
3	46.3		
Average	**32.9**	**80**	**41%**

[1] As per the Canada-Wide Standards requirement, the sample concentrations were reported as pg per dry reference (25°C, 101.3 kPa) cubic metre corrected to 11% oxygen

Table 6: Summary of In-Stack Mercury Concentrations – Milne Port Eco Waste Incinerator

Test	In-Stack Concentration µg/ DRm^3 [1]	Criteria	% of Criteria
1	0.847		
2	0.436		
3	0.261		
Average	**0.515**	**20**	**2.57%**

[1] As per the Canada-Wide Standards requirement, the sample concentrations were reported as pg per dry reference (25°C, 101.3 kPa) cubic metre corrected to 11% oxygen

MARY RIVER RESULTS

Table 7A: Summary of Stack Gas Characteristics (D/F Tests) – Mary River Eco Waste Incinerator

Test ID	Flow (DRm^3/s) [1]	Oxygen (% dry)	Carbon Dioxide (% dry)	Carbon Monoxide (ppm dry)	Moisture (%)	Stack Temp. (°C)
ORG-1	1.04	14.8	5.04	0.697	5.47	743
ORG-2	1.09	14.3	5.10	2.65	5.85	757
ORG-3	1.03	14.4	5.05	3.00	5.63	760
Average	**1.05**	**14.5**	**5.06**	**2.12**	**5.65**	**753**

[1] DRm^3 = Dry reference cubic metres (25°C, 101.3 kPa)

Table 7B: Summary of Stack Gas Characteristics (Mercury Tests) – Mary River Eco Waste Incinerator

Test ID	Flow (DRm^3/s) [1]	Oxygen (% dry)	Carbon Dioxide (% dry)	Carbon Monoxide (ppm dry)	Moisture (%)	Stack Temp. (°C)
HG-1	1.00	12.4	6.92	20.1	8.23	743
HG-2	1.08	12.1	6.76	6.22	9.20	749
HG-3	0.93	12.5	6.60	4.76	8.43	745
Average	**1.00**	**12.3**	**6.76**	**10.4**	**8.62**	**745**

[1] DRm^3 = Dry reference cubic metres (25°C, 101.3 kPa)

Table 8: Summary of In-Stack D/F/DLPCB Concentrations – Mary River Eco Waste Incinerator

Test	In-Stack Concentration pg TEQ /DRm^3 [1]	Criteria	% of Criteria
1	417		
2	258		
3	194		
Average	**290**	**80**	**362%**

[1] As per the Canada-Wide Standards requirement, the sample concentrations were reported as pg per dry reference (25°C, 101.3 kPa) cubic metre corrected to 11% oxygen

Table 9: Summary of In-Stack Mercury Concentrations – Mary River Eco Waste Incinerator

Test	In-Stack Concentration µg/DRm^3 [1]	Criteria	% of Criteria
1	0.931		
2	0.763		
3	0.921		
Average	**0.872**	**20**	**4.36%**

[1] As per the Canada-Wide Standards requirement, the sample concentrations were reported as pg per dry reference (25°C, 101.3 kPa) cubic metre corrected to 11% oxygen

6 DISCUSSION

6.1 RESULTS

- D/F/DLPCBThe Milne Port Eco Waste Incinerator showed D/F/DLPCB concentrations at 41% of the applicable CCME Canada Wide Standard of 80 µg/DRm3@11% O2
- The Mary River Eco Waste Incinerator showed D/F/DLPCB concentrations at **362%** of the applicable CCME Canada Wide Standard of 80 µg/DRm3@11% O2

Mercury

- The Milne Port Eco Waste Incinerator showed mercury concentrations at 2.57% of the applicable CCME Canada Wide Standard of 20 µg/DRm3@11% O2
- The Mary River Eco Waste Incinerator showed mercury concentrations at 4.36% of the applicable CCME Canada Wide Standard of 20 µg/DRm3@11% O2

6.2 OBSERVATIONS AND COMMENTS

1. **Stable Combustion** – Mercury tests were started shortly after ignition once secondary temperatures reached 1000°C. D/F tests were started approximately 2 hours later after the mercury tests were completed.
2. **Mercury** - Mercury results were consistent with the previous mercury testing programs.
3. **Documentation of Waste -** During testing, the quantity of waste was measured largely in descriptive terms (i.e., number of pallets, number of bags (no size or weights), number of buckets of sewage sludge). No weights or details of garbage bag contents were available. It is noted that each of the incinerators has a design for specific amounts of different wastes and for constructing the burn. Based on assumed weights and bag/pallet counts, the average burn was approximated at 1000 kg of waste.
4. **Loaded Waste –** Generally, it appeared that the Mary River incinerator was loaded with more waste than the Milne Port Incinerator. This may have been the reason for the measured high D/F/DLPCB levels. Photos of the loads are included in the appendices.
5. **Incinerator Monitoring Data** - Temperatures, opacity, and faults are monitored by the facility operating system. In the future, this data might be made available for inclusion in the testing report.
6. **Primary Burner Faults -** During combustion, diesel fired burners maintain the primary and secondary temperatures. Occasionally, the primary burners on the incinerators showed faults occur during the test program. Typically, this occurred when the flames of the primary combustion were detected by the sensors. The fault condition then caused the burner to shut down and at times would have to be reset by plant staff after the flames had died down. At times, the reset was immediate and other times it took longer. This would have affected primary chamber temperatures and presumably would affect emissions. It is unclear what effect this would have overall.
7. **Operations** – During testing, operations were relatively stable and continuous with no noted interruptions.

6.3 RECOMMENDATIONS

1. Testing continues to be completed during summer months (June to September). Given the lead times required, it is recommended that the work be initiated approximately 3 months in advance.
2. For consistency, testing for D/F/DLPCBs continues to be conducted after stable combustion is achieved (approximately 2.5 hours after ignition) following mercury testing.
3. It is recommended that waste be sorted or at least weighed for each test in order to meet operating manual specified quantities and ratios. This would better determine whether the elevated D/F/DLPCB levels are related to the quantities loaded.

7 CLOSURE

The WSP sampling team is grateful for the cooperation of Baffinland during the execution of this test program. We look forward to future projects together.

Regards,
WSP Canada Inc.

Prepared by:

Steve McClure, B.E.S.
Manager, Air Quality Services

Reviewed by:

Caleb Vandenberg, P.Eng.
Air Quality Compliance Team Lead

Appendix A

Test Data and Calculations

Project Number	**CA0053880**
Company Name	**Baffinland**
Location	**Milne Port, Baffin Island, NU**
Source	**Port Eco Waste Incinerator**
Test Type	**Dioxins/Furans**

Test Number		**ORG-1**	**ORG-2**	**ORG-3**
Date		07-Sep-25	08-Sep-25	09-Sep-25
Start Time Trav. 1		13:38	11:51	13:00
End Time Trav. 1		15:38	13:51	15:00
Start Time Trav. 2		15:49	14:18	15:15
End Time Trav. 2		17:49	16:18	17:15
Number of Traverses Tested		2	2	2
Gas Meter Coefficient		1.003	1.003	1.003
Pitot Tube Coefficient		0.840	0.840	0.840
Stack Diameter	feet	2.63	2.63	2.63
Nozzle Diameter	inches	0.500	0.500	0.500
Barometric Pressure	" Hg	29.64	30.00	29.87
Static Pressure	" H2O	-0.14	-0.15	-0.15
Impinger Collection				
Impinger 1	g	42	130	121
Impinger 2	g	71	40	33
Impinger 3	g	2	-1	-2
Impinger 4	g	35	15	15
Total		150.0	184.0	167.0

Test Number		**ORG-1**	**ORG-2**	**ORG-3**	**Averages**
Equivalent Moisture Sample Volume	rcf	7.2	8.8	8.0	
Dry Gas Sample Volume at Meter	cf	159.12	171.80	163.10	164.67
Average Meter Temp	°F	67	65	66	66
Average Meter Pressure	"H2O	1.73	1.04	0.87	1.21
Dry Ref. Sample Volume	drcf	161.45	176.56	166.72	168.25
Dry Ref. Sample Volume	drm3	4.574	5.002	4.723	4.766
Stack Area	ft2	5.41	5.41	5.41	
Nozzle Area	inches2	0.1963	0.1963	0.1963	
Stack Pressure	"Hg	29.63	29.99	29.86	29.83
Potential Saturation Moisture	%	>100%	>100%	>100%	
Dry Mol. Weight of Gas	g/gmol	29.30	29.30	29.30	29.30
Wet Mol. Weight of Gas	g/gmol	28.81	28.77	28.78	28.79

STACK PARAMETERS SUMMARY					
Test Number		**ORG-1**	**ORG-2**	**ORG-3**	**Averages**
Moisture Vapour Content*	% v/v	4.26%	4.75%	4.58%	4.53%
Oxygen	% v/v dry	16.12%	15.42%	15.63%	15.72%
Carbon Dioxide	% v/v dry	4.07%	4.30%	4.23%	4.20%
Argon	% v/v dry	0.08%	0.08%	0.08%	0.08%
Nitrogen	% v/v dry	79.73%	80.20%	80.07%	80.00%
Average Stack Velocity	ft/s	26.8	28.6	26.9	27.4
	m/s	8.17	8.73	8.19	8.36
Average Stack Temperature	°F	1186	1185	1163	1178
	°C	641	641	628	637
Actual Stack Flow	acfm	8702	9296	8724	8907
	am3/s	4.11	4.39	4.12	4.21
Dry Ref. Stack Flow	drcfm	2705	2911	2761	2792
	drm3/s	1.28	1.37	1.30	1.32

*Moisture Content is calculated from the lower of measured and saturation moisture (based on stack temperature)

Project Number		**CA0053880**					
Company Name		**Baffinland**					
Location		**Milne Port, Baffin Island, NU**					
Source		**Port Eco Waste Incinerator**					
Test Type		**Dioxins/Furans**					
Analysis		**ORG-1**	**ORG-2**	**ORG-3**	**Average**		
Dioxins/Furans	TEQ pg	29.9	107.56	116.4			
2,3,7,8-TCDD	pg	1.1	2.5	2.22			
1,2,3,7,8-PeCDD	pg	1.9	13.3	11			
1,2,3,4,7,8-HxCDD	pg	1.9	21.7	13.6			
1,2,3,6,7,8-HxCDD	pg	6.24	46.1	29.4			
1,2,3,7,8,9-HxCDD	pg	5.2	31.1	23.9			
1,2,3,4,6,7,8-HpCDD	pg	40.7	359	244			
OCDD	pg	45.1	410	313			
2,3,7,8-TCDF	pg	6.64	11.2	13.8			
1,2,3,7,8-PeCDF	pg	17.8	23.9	30.8			
2,3,4,7,8-PeCDF	pg	9.46	87.5	97.4			
1,2,3,4,7,8-HxCDF	pg	9	75.6	85.3			
1,2,3,6,7,8-HxCDF	pg	9.9	98.8	110			
2,3,4,6,7,8-HxCDF	pg	10.6	157	203			
1,2,3,7,8,9-HxCDF	pg	8.22	32.4	41.1			
1,2,3,4,6,7,8-HpCDF	pg	32.1	491	499			
1,2,3,4,7,8,9-HpCDF	pg	12	60	68.8			
OCDF	pg	25.7	143	168			
PCB-081	pg	8.5	25	57			
PCB-077	pg	22100	4190	2440			
PCB-123	pg	10.6	4.9	8.3			
PCB-118	pg	498	141	77			
PCB-114	pg	14	13.2	19			
PCB-105	pg	227	81.5	74.2			
PCB-126	pg	144	70.6	112			
PCB-167	pg	19.5	14	22.6			
PCB-156/157	pg	39.5	51.4	68.4			
PCB-169	pg	8.1	22	30.2			
PCB-189	pg	8.9	61.3	82.4			
Concentration							
Dioxins/Furans	TEQ pg/DRm3	6.5	21.5	25	18	**Criteria**	
Dioxins/Furans corrected to 11% O_2	**TEQ pg/DRm3**	**13.54**	**38.9**	**46.29**	**32.9**	**80**	**41%**
2,3,7,8-TCDD	pg/DRm3	0.241	0.500	0.47	0.40		
1,2,3,7,8-PeCDD	pg/DRm3	0.42	2.66	2	1.8		
1,2,3,4,7,8-HxCDD	pg/DRm3	0.42	4.34	3	2.5		
1,2,3,6,7,8-HxCDD	pg/DRm3	1.4	9.22	6	6		
1,2,3,7,8,9-HxCDD	pg/DRm3	1.1	6.22	5	4		
1,2,3,4,6,7,8-HpCDD	pg/DRm3	9	71.8	52	44		
OCDD	pg/DRm3	10	82.0	66	53		
2,3,7,8-TCDF	pg/DRm3	1.45	2.24	2.922	2.20		
1,2,3,7,8-PeCDF	pg/DRm3	3.9	4.78	6.5	5.1		
2,3,4,7,8-PeCDF	pg/DRm3	2.1	17.5	21	13.4		
1,2,3,4,7,8-HxCDF	pg/DRm3	2.0	15.1	18	11.7		
1,2,3,6,7,8-HxCDF	pg/DRm3	2.2	19.8	23	15.1		
2,3,4,6,7,8-HxCDF	pg/DRm3	2.3	31.4	43	26		
1,2,3,7,8,9-HxCDF	pg/DRm3	1.8	6.48	8.7	5.7		
1,2,3,4,6,7,8-HpCDF	pg/DRm3	7	98	106	70		
1,2,3,4,7,8,9-HpCDF	pg/DRm3	2.6	12.0	14.6	9.7		
OCDF	pg/DRm3	5.6	28.6	36	23		
PCB-081	pg/DRm3	1.9	5.0	12	6		
PCB-077	pg/DRm3	4832.1	837.7	517	2062		
PCB-123	pg/DRm3	2.3	1.0	2	2		
PCB-118	pg/DRm3	108.9	28.2	16	51		
PCB-114	pg/DRm3	3.1	2.6	4	3		
PCB-105	pg/DRm3	49.6	16.3	16	27		
PCB-126	pg/DRm3	31.5	14.1	24	23		
PCB-167	pg/DRm3	4.3	2.8	5	4		
PCB-156/157	pg/DRm3	8.6	10.3	14	11		

Project Number		**CA0053880**			
Company Name		**Baffinland**			
Location		**Milne Port, Baffin Island, NU**			
Source		**Port Eco Waste Incinerator**			
Test Type		**Dioxins/Furans**			
PCB-169	pg/DRm3	1.8	4.4	6	4
PCB-189	pg/DRm3	1.9	12.3	17	11
Emissions	TEQ pg/s	8.3	29.6	32	23
	TEQ g/s	8.35E-12	2.96E-11	3.21E-11	2.33E-11
2,3,7,8-TCDD	pg/s	0.31	0.687	0.6	0.54
1,2,3,7,8-PeCDD	pg/s	0.53	3.66	3	2.4
1,2,3,4,7,8-HxCDD	pg/s	0.53	5.96	4	3
1,2,3,6,7,8-HxCDD	pg/s	1.7	12.7	8	8
1,2,3,7,8,9-HxCDD	pg/s	1.5	8.55	7	6
1,2,3,4,6,7,8-HpCDD	pg/s	11	98.7	67	59
OCDD	pg/s	13	113	86	71
2,3,7,8-TCDF	pg/s	1.9	3.08	3.81	2.91
1,2,3,7,8-PeCDF	pg/s	5.0	6.57	8.5	6.7
2,3,4,7,8-PeCDF	pg/s	2.6	24.0	27	17.9
1,2,3,4,7,8-HxCDF	pg/s	2.5	20.8	24	15.6
1,2,3,6,7,8-HxCDF	pg/s	2.8	27.2	30	20.1
2,3,4,6,7,8-HxCDF	pg/s	3.0	43.1	56	34
1,2,3,7,8,9-HxCDF	pg/s	2.3	8.9	11	7.5
1,2,3,4,6,7,8-HpCDF	pg/s	9	135	138	94
1,2,3,4,7,8,9-HpCDF	pg/s	3.4	16.5	19	12.9
OCDF	pg/s	7	39.3	46	31
PCB-081	pg/s	2	6.9	16	8
PCB-077	pg/s	6171	1151.5	673	2665
PCB-123	pg/s	3	1.3	2	2
PCB-118	pg/s	139	38.8	21	66
PCB-114	pg/s	4	3.6	5	4
PCB-105	pg/s	63	22.4	20	35
PCB-126	pg/s	40	19.4	31	30
PCB-167	pg/s	5	3.8	6	5
PCB-156/157	pg/s	11	14.1	19	15
PCB-169	pg/s	2	6.0	8	6
PCB-189	pg/s	2	16.8	23	14

PROJECT NUMBER: CA0053880
TEST NUMBER: ORG-1
DATE: 07-Sep-25
TIME: 1st Traverse 2nd Traverse
Start 13:38 15:49
Finish 15:38 17:49

COMPANY: Baffinland
LOCATION: Milne Port, Baffin Island, NU
SOURCE: Port Eco Waste Incinerator

TRAVERSE POINT DATA

POINT NO.	CLOCK TIME	SAMPLE TIME (min)	GAS VOLUME (ft3)	dP (in H2O)	dH (in H2O)	STACK TEMP (deg F)	GAS METER TEMP IN (deg F)	GAS METER TEMP OUT (deg F)	O2 (% dry)	CO2 (% dry)	GAS VELOCITY (ft/s)	%I
1	13:38	0.0	406.44	0.090	2.00	1189	62	62	16.41	3.47	29.9	81.6
	13:43	5.0	409.44	0.090	2.00	1198	64	62	15.45	4.55	30.0	95.6
	13:48	10.0	412.95	0.090	1.90	1200	67	63	15.54	4.50	30.0	96.6
	13:53	15.0	416.51	0.090	2.00	1197	68	63	15.49	4.53	30.0	98.6
2	13:58	20.0	420.15	0.090	2.00	1215	69	63	15.61	4.50	30.1	98.8
	14:03	25.0	423.78	0.090	2.00	1215	69	63	15.22	4.69	30.1	97.4
	14:08	30.0	427.36	0.090	2.00	1222	70	63	14.88	5.07	30.2	99.2
	14:13	35.0	431.00	0.090	2.00	1229	70	63	14.88	5.04	30.3	99.7
3	14:18	40.0	434.65	0.090	2.00	1219	71	64	14.94	4.95	30.2	97.8
	14:23	45.0	438.25	0.090	2.00	1207	71	64	15.93	4.36	30.1	98.8
	14:28	50.0	441.90	0.090	2.00	1208	71	64	16.50	3.89	30.1	99.9
	14:33	55.0	445.59	0.090	2.00	1206	70	64	16.74	3.61	30.0	95.1
4	14:38	60.0	449.10	0.090	2.00	1210	70	65	16.82	3.54	30.1	100.0
	14:43	65.0	452.79	0.090	2.00	1213	70	65	16.57	3.70	30.1	97.4
	14:48	70.0	456.38	0.090	2.00	1214	70	65	16.31	3.89	30.1	97.1
	14:53	75.0	459.96	0.090	2.00	1230	70	65	16.34	3.89	30.3	97.6
5	14:58	80.0	463.54	0.090	2.00	1228	70	65	16.44	3.82	30.2	97.8
	15:03	85.0	467.13	0.090	2.00	1222	70	65	16.42	3.77	30.2	100.9
	15:08	90.0	470.84	0.090	2.00	1197	70	65	16.80	3.59	30.0	100.2
	15:13	95.0	474.55	0.090	2.00	1193	70	65	17.38	3.05	29.9	99.2
6	15:18	100.0	478.23	0.060	1.40	1120	71	65	17.76	2.67	23.9	100.2
	15:23	105.0	481.34	0.070	1.70	1140	71	65	17.41	2.95	26.0	100.6
	15:28	110.0	484.69	0.070	1.70	1152	71	65	17.11	3.30	26.1	101.0
	15:33	115.0	488.04	0.070	1.70	1144	69	65	17.07	3.30	26.0	99.4
	15:38	120.0	491.34									
Traverse 1			84.90	0.086	1.93	1199	69	64	16.25	3.94	29.3	97.9

PROJECT NUMBER: CA0053880
TEST NUMBER: ORG-1
DATE: 07-Sep-25

COMPANY: Baffinland
LOCATION: Milne Port, Baffin Island, NU
SOURCE: Port Eco Waste Incinerator

POINT NO.	CLOCK TIME	SAMPLE TIME (min)	GAS VOLUME (ft3)	dP (in H2O)	dH (in H2O)	STACK TEMP (deg F)	GAS METER TEMP IN (deg F)	GAS METER TEMP OUT (deg F)	O2 (% dry)	CO2 (% dry)	GAS VELOCITY (ft/s)	%I
1	15:49	0.0	491.34	0.060	1.50	1147	65	64	16.57	3.66	24.1	104.0
	15:54	5.0	494.52	0.060	1.50	1137	67	64	16.34	3.91	24.0	101.2
	15:59	10.0	497.63	0.060	1.50	1140	69	64	16.34	4.01	24.0	100.5
	16:04	15.0	500.72	0.060	1.50	1146	69	64	16.28	4.01	24.1	100.6
2	16:09	20.0	503.81	0.060	1.50	1139	70	65	16.27	3.94	24.0	99.9
	16:14	25.0	506.89	0.060	1.50	1162	69	65	16.18	4.01	24.2	99.1
	16:19	30.0	509.92	0.060	1.50	1158	69	65	16.24	4.01	24.2	99.6
	16:24	35.0	512.97	0.060	1.50	1154	69	65	16.26	4.01	24.1	103.4
3	16:29	40.0	516.14	0.060	1.50	1153	69	65	16.27	3.99	24.1	103.1
	16:34	45.0	519.30	0.060	1.50	1154	69	65	16.31	4.01	24.1	101.1
	16:39	50.0	522.40	0.060	1.50	1148	69	65	16.30	4.01	24.1	100.9
	16:44	55.0	525.50	0.060	1.50	1158	69	65	16.12	4.10	24.2	100.3
4	16:49	60.0	528.57	0.060	1.50	1159	69	65	15.97	4.22	24.2	116.3
	16:54	65.0	532.13	0.060	1.40	1189	69	65	15.67	4.36	24.4	101.2
	16:59	70.0	535.20	0.060	1.40	1207	68	64	15.13	4.83	24.5	102.9
	17:04	75.0	538.30	0.060	1.40	1196	68	64	15.93	4.38	24.5	100.0
5	17:09	80.0	541.32	0.060	1.40	1200	68	64	15.83	4.31	24.5	99.1
	17:14	85.0	544.31	0.060	1.40	1200	68	64	15.91	4.27	24.5	100.1
	17:19	90.0	547.33	0.060	1.40	1195	68	64	15.97	4.24	24.5	102.9
	17:24	95.0	550.44	0.060	1.40	1199	68	64	15.91	4.24	24.5	102.0
6	17:29	100.0	553.52	0.060	1.40	1187	68	64	15.29	4.62	24.4	99.7
	17:34	105.0	556.54	0.060	1.40	1224	68	64	14.91	4.95	24.7	100.1
	17:39	110.0	559.54	0.060	1.40	1198	68	64	15.77	4.43	24.5	99.4
	17:44	115.0	562.54	0.060	1.40	1189	68	64	15.90	4.27	24.4	99.7
	17:49	120.0	565.56									
Traverse 2			74.22	0.060	1.45	1172	68	64	15.99	4.20	24.3	101.5
TOTAL TEST			159.12	0.073	1.69	1186	69	64	16.12	4.07	26.8	99.7

PROJECT NUMBER: CA0053880
TEST NUMBER: ORG-2
DATE: 08-Sep-25
TIME: 1st Traverse 2nd Traverse
Start 11:51 14:18
Finish 13:51 16:18

COMPANY: Baffinland
LOCATION: Milne Port, Baffin Island, NU
SOURCE: Port Eco Waste Incinerator

TRAVERSE POINT DATA

POINT NO.	CLOCK TIME	SAMPLE TIME (min)	GAS VOLUME (ft3)	dP (in H2O)	dH (in H2O)	STACK TEMP (deg F)	GAS METER TEMP IN (deg F)	GAS METER TEMP OUT (deg F)	O2 (% dry)	CO2 (% dry)	GAS VELOCITY (ft/s)	%I
1	11:51	0.0	631.76	0.090	2.00	1207	61	59	14.68	4.63	29.9	100.5
	11:56	5.0	635.38	0.090	2.00	1216	65	59	14.73	4.82	30.0	100.4
	12:01	10.0	639.00	0.090	2.00	1206	66	60	14.74	4.79	29.9	97.1
	12:06	15.0	642.52	0.090	2.00	1214	66	60	14.65	4.84	30.0	101.2
2	12:11	20.0	646.18	0.090	2.00	1225	68	61	14.67	4.86	30.1	101.0
	12:16	25.0	649.83	0.090	2.00	1236	69	61	14.75	4.82	30.2	100.1
	12:21	30.0	653.44	0.090	2.00	1225	69	61	13.89	5.29	30.1	100.9
	12:26	35.0	657.09	0.090	2.00	1225	69	61	13.63	5.62	30.1	96.7
3	12:31	40.0	660.59	0.090	2.00	1231	68	62	13.86	5.52	30.1	98.3
	12:36	45.0	664.14	0.100	2.30	1215	68	63	14.71	4.93	31.6	101.7
	12:41	50.0	668.03	0.100	2.30	1200	68	63	15.07	4.56	31.4	99.4
	12:46	55.0	671.85	0.090	2.10	1200	68	62	15.30	4.42	29.8	104.3
4	12:51	60.0	675.65	0.090	2.10	1191	68	63	15.42	4.32	29.8	103.1
	12:56	65.0	679.42	0.090	2.10	1208	68	63	15.56	4.21	29.9	102.5
	13:01	70.0	683.15	0.090	2.10	1203	68	63	15.69	4.11	29.9	103.2
	13:06	75.0	686.91	0.090	2.10	1207	69	63	15.77	3.99	29.9	102.1
5	13:11	80.0	690.63	0.090	2.10	1215	69	63	15.73	4.02	30.0	101.0
	13:16	85.0	694.30	0.090	2.10	1221	69	63	15.11	4.49	30.0	103.1
	13:21	90.0	698.04	0.090	2.10	1223	68	63	15.18	4.49	30.0	100.5
	13:26	95.0	701.68	0.090	2.10	1235	67	65	15.07	4.58	30.1	101.0
6	13:31	100.0	705.33	0.090	2.10	1210	66	63	15.03	4.65	29.9	100.3
	13:36	105.0	708.97	0.090	2.10	1208	66	63	15.94	4.06	29.9	98.8
	13:41	110.0	712.56	0.090	2.10	1154	66	63	16.57	3.48	29.4	99.7
	13:46	115.0	716.24	0.090	1.90	1157	66	63	16.74	2.89	29.4	98.6
	13:51	120.0	719.88									
Traverse 1			88.12	0.091	2.07	1210	67	62	15.10	4.52	30.1	100.6

PROJECT NUMBER: CA0053880
TEST NUMBER: ORG-2
DATE: 08-Sep-25

COMPANY: Baffinland
LOCATION: Milne Port, Baffin Island, NU
SOURCE: Port Eco Waste Incinerator

POINT NO.	CLOCK TIME	SAMPLE TIME (min)	GAS VOLUME (ft3)	dP (in H2O)	dH (in H2O)	STACK TEMP (deg F)	GAS METER TEMP IN (deg F)	GAS METER TEMP OUT (deg F)	O2 (% dry)	CO2 (% dry)	GAS VELOCITY (ft/s)	%I
1	14:18	0.0	729.13	0.070	1.70	1109	64	61	16.27	3.55	25.6	100.5
	14:23	5.0	732.44	0.070	1.70	1153	68	62	15.16	4.46	25.9	102.9
	14:28	10.0	735.80	0.070	1.70	1163	69	62	15.28	4.46	26.0	101.3
	14:33	15.0	739.10	0.080	1.90	1158	69	63	16.04	3.85	27.8	106.3
2	14:38	20.0	742.81	0.080	1.90	1151	69	63	16.27	3.69	27.7	104.7
	14:43	25.0	746.47	0.070	1.70	1151	69	63	16.21	3.64	25.9	107.9
	14:48	30.0	750.00	0.070	1.70	1145	69	63	15.85	3.99	25.9	100.7
	14:53	35.0	753.30	0.070	1.70	1150	69	63	15.88	3.99	25.9	109.7
3	14:58	40.0	756.89	0.070	1.70	1144	69	63	15.88	3.99	25.9	100.9
	15:03	45.0	760.20	0.070	1.70	1148	69	63	15.88	3.99	25.9	106.6
	15:08	50.0	763.69	0.080	1.90	1147	69	63	15.75	4.06	27.7	100.8
	15:13	55.0	767.22	0.080	1.90	1163	69	63	15.73	4.11	27.8	97.0
4	15:18	60.0	770.60	0.080	1.90	1168	69	63	15.70	4.11	27.9	102.1
	15:23	65.0	774.15	0.080	1.90	1166	69	63	15.73	4.11	27.8	102.0
	15:28	70.0	777.70	0.080	1.90	1170	69	63	15.76	4.11	27.9	100.1
	15:33	75.0	781.18	0.080	1.90	1168	69	63	15.73	4.11	27.9	100.9
5	15:38	80.0	784.69	0.080	1.90	1165	69	63	15.78	4.11	27.8	101.1
	15:43	85.0	788.21	0.080	1.90	1163	69	63	15.81	4.06	27.8	100.5
	15:48	90.0	791.71	0.080	1.90	1159	69	63	15.86	3.99	27.8	100.9
	15:53	95.0	795.23	0.080	1.90	1166	69	63	15.55	4.21	27.8	99.1
6	15:58	100.0	798.68	0.080	1.90	1191	69	63	15.43	4.35	28.1	102.8
	16:03	105.0	802.23	0.080	1.90	1192	69	63	15.47	4.35	28.1	101.7
	16:08	110.0	805.74	0.080	1.90	1186	69	63	15.50	4.30	28.0	101.5
	16:13	115.0	809.25	0.080	1.90	1181	69	63	15.19	4.44	28.0	102.8
	16:18	120.0	812.81									
Traverse 2			83.68	0.077	1.83	1161	69	63	15.74	4.09	27.2	102.3
TOTAL TEST			171.80	0.084	1.95	1185	68	62	15.42	4.30	28.6	101.5

PROJECT NUMBER: CA0053880
TEST NUMBER: ORG-3
DATE: 09-Sep-25
TIME: 1st Traverse 2nd Traverse
Start 13:00 15:15
Finish 15:00 17:15

COMPANY: Baffinland
LOCATION: Milne Port, Baffin Island, NU
SOURCE: Port Eco Waste Incinerator

TRAVERSE POINT DATA

POINT NO.	CLOCK TIME	SAMPLE TIME (min)	GAS VOLUME (ft3)	dP (in H2O)	dH (in H2O)	STACK TEMP (deg F)	GAS METER TEMP IN (deg F)	GAS METER TEMP OUT (deg F)	O2 (% dry)	CO2 (% dry)	GAS VELOCITY (ft/s)	%I
1	13:00	0.0	863.41	0.070	1.50	1200	62	61	14.92	4.42	26.4	100.6
	13:05	5.0	866.64	0.070	1.50	1216	64	61	14.24	5.24	26.5	94.1
	13:10	10.0	869.65	0.070	1.60	1197	65	61	14.40	5.15	26.3	100.0
	13:15	15.0	872.87	0.070	1.60	1207	66	61	14.61	5.03	26.4	102.7
2	13:20	20.0	876.17	0.090	2.00	1172	66	61	15.06	4.70	29.6	101.6
	13:25	25.0	879.91	0.090	2.00	1172	66	61	15.15	4.58	29.6	100.5
	13:30	30.0	883.61	0.090	2.00	1174	68	61	15.17	4.58	29.7	103.4
	13:35	35.0	887.42	0.090	2.00	1191	68	61	15.25	4.46	29.8	102.8
3	13:40	40.0	891.19	0.090	2.00	1189	69	62	15.42	4.42	29.8	101.5
	13:45	45.0	894.92	0.090	2.00	1176	69	62	15.49	4.35	29.7	100.8
	13:50	50.0	898.64	0.090	2.00	1170	70	63	15.51	4.32	29.6	98.8
	13:55	55.0	902.30	0.090	2.00	1194	71	63	15.47	4.32	29.8	98.9
4	14:00	60.0	905.94	0.100	2.20	1196	71	63	15.33	4.37	31.5	102.2
	14:05	65.0	909.90	0.100	2.20	1211	71	64	15.00	4.70	31.6	101.0
	14:10	70.0	913.80	0.080	1.80	1149	71	64	15.35	4.39	27.7	106.2
	14:15	75.0	917.54	0.080	1.80	1142	70	64	15.36	4.37	27.7	100.1
5	14:20	80.0	921.07	0.060	1.40	1123	70	64	15.75	4.21	23.8	112.2
	14:25	85.0	924.52	0.060	1.40	1108	70	64	16.42	3.67	23.7	101.6
	14:30	90.0	927.66	0.060	1.40	1105	69	64	16.63	3.55	23.7	99.7
	14:35	95.0	930.74	0.060	1.40	1119	69	64	16.68	3.45	23.8	100.8
6	14:40	100.0	933.84	0.060	1.40	1139	69	64	16.00	3.90	24.0	94.5
	14:45	105.0	936.73	0.060	1.40	1123	69	64	16.06	3.95	23.8	100.2
	14:50	110.0	939.81	0.060	1.40	1120	68	64	16.07	3.92	23.8	102.2
	14:55	115.0	942.95	0.060	1.40	1106	68	64	16.09	3.88	23.7	95.6
	15:00	120.0	945.90									
Traverse 1			82.49	0.077	1.73	1162	68	63	15.48	4.33	27.2	100.9

PROJECT NUMBER: CA0053880
TEST NUMBER: ORG-3
DATE: 09-Sep-25

COMPANY: Baffinland
LOCATION: Milne Port, Baffin Island, NU
SOURCE: Port Eco Waste Incinerator

POINT NO.	CLOCK TIME	SAMPLE TIME (min)	GAS VOLUME (ft3)	dP (in H2O)	dH (in H2O)	STACK TEMP (deg F)	GAS METER TEMP IN (deg F)	GAS METER TEMP OUT (deg F)	O2 (% dry)	CO2 (% dry)	GAS VELOCITY (ft/s)	%I
1	15:15	0.0	946.20	0.070	1.60	1130	63	63	16.58	3.48	25.8	100.4
	15:20	5.0	949.50	0.070	1.60	1151	65	63	15.94	4.02	26.0	96.9
	15:25	10.0	952.67	0.070	1.60	1147	66	63	15.89	4.02	25.9	101.5
	15:30	15.0	956.00	0.070	1.60	1132	68	63	16.06	3.99	25.8	100.3
2	15:35	20.0	959.31	0.070	1.60	1146	68	63	16.10	3.99	25.9	99.2
	15:40	25.0	962.57	0.070	1.60	1131	68	63	16.11	3.88	25.8	100.2
	15:45	30.0	965.88	0.070	1.60	1140	69	63	16.10	3.90	25.9	99.2
	15:50	35.0	969.15	0.070	1.60	1147	69	63	16.04	3.90	25.9	100.6
3	15:55	40.0	972.46	0.070	1.60	1146	69	63	16.07	3.88	25.9	98.8
	16:00	45.0	975.71	0.070	1.60	1143	68	63	16.13	3.88	25.9	100.6
	16:05	50.0	979.02	0.070	1.60	1145	69	63	16.12	3.88	25.9	100.6
	16:10	55.0	982.33	0.070	1.60	1145	69	63	16.21	3.78	25.9	97.8
4	16:15	60.0	985.55	0.070	1.60	1143	69	63	15.94	3.92	25.9	100.2
	16:20	65.0	988.85	0.080	1.80	1183	69	63	15.73	4.18	28.0	100.7
	16:25	70.0	992.35	0.080	1.80	1180	69	63	15.66	4.16	28.0	100.6
	16:30	75.0	995.85	0.080	1.80	1184	69	63	14.96	4.68	28.0	106.5
5	16:35	80.0	999.55	0.090	2.00	1212	69	63	15.29	4.53	30.0	102.4
	16:40	85.0	1003.29	0.090	2.00	1188	69	63	15.69	4.23	29.8	100.0
	16:45	90.0	1006.97	0.090	2.00	1193	69	63	15.67	4.23	29.8	100.4
	16:50	95.0	1010.66	0.090	2.00	1181	69	63	15.67	4.23	29.7	99.3
6	16:55	100.0	1014.32	0.060	1.40	1169	69	63	15.63	4.23	24.2	110.0
	17:00	105.0	1017.65	0.060	1.30	1206	69	63	14.68	4.79	24.5	104.2
	17:05	110.0	1020.77	0.060	1.30	1204	69	63	14.82	4.89	24.4	101.5
	17:10	115.0	1023.81	0.060	1.30	1188	69	63	15.69	4.23	24.3	99.7
	17:15	120.0	1026.81									
Traverse 2			80.61	0.073	1.65	1164	68	63	15.78	4.12	26.6	100.9
TOTAL TEST			163.10	0.075	1.69	1163	68	63	15.63	4.23	26.9	100.9

Project Number	**CA0053880**
Company Name	**Baffinland**
Location	**Milne Port, Baffin Island, NU**
Source	**Port Eco Waste Incinerator**
Test Type	**Mercury**

Test Number		**HG-1**	**HG-2**	**HG-3**
Date		07-Sep-25	08-Sep-25	09-Sep-25
Start Time Trav. 1		11:03	09:10	10:38
End Time Trav. 1		12:03	10:10	11:38
Start Time Trav. 2		12:12	10:22	11:45
End Time Trav. 2		13:12	11:22	12:45
Number of Traverses Tested		2	2	2
Gas Meter Coefficient		1.003	1.003	1.003
Pitot Tube Coefficient		0.840	0.840	0.840
Stack Diameter	feet	2.63	2.63	2.63
Nozzle Diameter	inches	0.375	0.375	0.375
Barometric Pressure	" Hg	29.64	30.00	29.87
Static Pressure	" H2O	-0.10	-0.16	-0.15
Impinger Collection				
Impinger 1	g	59	73	55
Impinger 2	g	10	12	24
Impinger 3	g	1	2	1
Impinger 4	g	10	12	10
Total		80.0	99.0	90.0

Test Number		**HG-1**	**HG-2**	**HG-3**	**Averages**
Equivalent Moisture Sample Volume	rcf	3.8	4.7	4.3	
Dry Gas Sample Volume at Meter	cf	49.39	51.59	50.01	50.33
Average Meter Temp	°F	60	54	69	61
Average Meter Pressure	"H2O	0.54	0.30	0.30	0.38
Dry Ref. Sample Volume	drcf	50.58	54.10	50.68	51.79
Dry Ref. Sample Volume	drm3	1.433	1.533	1.436	1.467
Stack Area	ft2	5.41	5.41	5.41	
Nozzle Area	inches2	0.1104	0.1104	0.1104	
Stack Pressure	"Hg	29.63	29.99	29.86	29.83
Potential Saturation Moisture	%	>100%	>100%	>100%	
Dry Mol. Weight of Gas	g/gmol	29.36	29.44	29.37	29.39
Wet Mol. Weight of Gas	g/gmol	28.56	28.52	28.48	28.52

STACK PARAMETERS SUMMARY					
Test Number		**HG-1**	**HG-2**	**HG-3**	**Averages**
Moisture Vapour Content*	% v/v	7.04%	8.06%	7.84%	7.65%
Oxygen	% v/v dry	14.6%	13.6%	13.9%	14.0%
Carbon Dioxide	% v/v dry	4.84%	5.61%	5.06%	5.17%
Argon	% v/v dry	0.08%	0.08%	0.08%	0.08%
Nitrogen	% v/v dry	80.51%	80.71%	80.93%	80.71%
Average Stack Velocity	ft/s	29.2	31.1	29.8	30.0
	m/s	8.90	9.47	9.07	9.15
Average Stack Temperature	°F	1154	1177	1162	1164
	°C	624	636	628	629
Actual Stack Flow	acfm	9485	10094	9663	9747
	am3/s	4.48	4.77	4.56	4.60
Dry Ref. Stack Flow	drcfm	2910	3057	2949	2972
	drm3/s	1.37	1.44	1.39	1.40

*Moisture Content is calculated from the lower of measured and saturation moisture (based on stack temperature)

Test		**MET-1**	**MET-2**	**MET-3**	**Average**
Analyses					
Hg - Imipingers	µg	0.557	0.045	0.054	
Hg - HCl Rinse	µg	0.210	0.448	0.210	
Hg - Total	**µg**	**0.767**	**0.493**	**0.264**	
Concentrations					
Hg	µg/DRm3	0.535	0.322	0.184	0.347
Hg (corrected to 11%O2)	**µg/DRm3**	**0.837**	**0.436**	**0.262**	**0.512**
Emissions					
Hg	**g/s**	**7.35E-07**	**4.64E-07**	**2.56E-07**	**4.85E-07**

PROJECT NUMBER: CA0053880
TEST NUMBER: HG-1
DATE: 07-Sep-25
TIME:

	1st Traverse	2nd Traverse
Start	11:03	12:12
Finish	12:03	13:12

COMPANY: Baffinland
LOCATION: Milne Port, Baffin Island, NU
SOURCE: Port Eco Waste Incinerator

TRAVERSE POINT DATA

POINT NO.	CLOCK TIME	SAMPLE TIME (min)	GAS VOLUME (ft3)	dP (in H2O)	dH (in H2O)	STACK TEMP (deg F)	GAS METER TEMP IN (deg F)	GAS METER TEMP OUT (deg F)	O2 (% dry)	CO2 (% dry)	GAS VELOCITY (ft/s)	%I
1	11:03	0.0	356.70	0.060	0.43	1060	53	53	14.0	4.91	23.5	99.9
	11:08	5.0	358.39	0.070	0.50	1074	54	54	14.1	5.15	25.5	109.8
2	11:13	10.0	360.39	0.070	0.50	1076	57	54	14.2	5.05	25.6	103.5
	11:18	15.0	362.28	0.070	0.50	1086	58	55	14.4	4.93	25.6	103.6
3	11:23	20.0	364.17	0.070	0.50	1100	58	55	14.4	4.86	25.8	103.6
	11:28	25.0	366.05	0.070	0.50	1096	60	55	14.5	4.79	25.7	99.9
4	11:33	30.0	367.87	0.070	0.50	1101	61	56	14.7	4.70	25.8	107.6
	11:38	35.0	369.83	0.070	0.50	1108	61	57	13.8	5.31	25.8	105.0
5	11:43	40.0	371.74	0.100	0.67	1184	61	57	13.9	5.40	31.6	102.7
	11:48	45.0	373.92	0.100	0.67	1185	63	58	13.9	5.31	31.6	103.8
6	11:53	50.0	376.13	0.100	0.67	1195	63	58	14.0	5.26	31.7	102.7
	11:58	55.0	378.31	0.100	0.67	1189	63	58	17.2	2.16	31.6	101.1
	12:03	60.0	380.46									
Traverse 1			23.76	0.079	0.55	1121	59	56	14.42	4.82	27.5	103.6

PROJECT NUMBER: CA0053880
TEST NUMBER: HG-1
DATE: 07-Sep-25

COMPANY: Baffinland
LOCATION: Milne Port, Baffin Island, NU
SOURCE: Port Eco Waste Incinerator

POINT NO.	CLOCK TIME	SAMPLE TIME (min)	GAS VOLUME (ft3)	dP (in H2O)	dH (in H2O)	STACK TEMP (deg F)	GAS METER TEMP IN (deg F)	GAS METER TEMP OUT (deg F)	O2 (% dry)	CO2 (% dry)	GAS VELOCITY (ft/s)	%I
1	12:12	0.0	380.46	0.100	0.67	1207	60	60	15.49	3.99	31.8	105.1
	12:17	5.0	382.68	0.100	0.66	1222	62	60	14.08	5.24	32.0	103.0
2	12:22	10.0	384.85	0.110	0.71	1248	63	60	13.70	5.62	33.8	103.9
	12:27	15.0	387.13	0.110	0.70	1221	65	60	14.15	5.29	33.5	102.4
3	12:32	20.0	389.40	0.110	0.70	1211	65	61	14.26	5.19	33.4	100.7
	12:37	25.0	391.64	0.100	0.65	1219	66	61	14.24	5.29	31.9	102.4
4	12:42	30.0	393.81	0.100	0.65	1215	66	61	14.25	5.17	31.9	104.2
	12:47	35.0	396.02	0.100	0.65	1200	66	61	14.62	5.05	31.8	101.4
5	12:52	40.0	398.18	0.080	0.53	1136	66	61	15.18	4.68	27.8	97.7
	12:57	45.0	400.08	0.080	0.53	1124	66	61	15.48	4.35	27.7	99.9
6	13:02	50.0	402.03	0.080	0.53	1126	65	62	15.56	4.28	27.8	108.2
	13:07	55.0	404.14	0.080	0.53	1123	65	62	15.65	4.21	27.7	99.9
	13:12	60.0	406.09									
Traverse 2			25.63	0.096	0.63	1188	65	61	14.72	4.86	30.9	102.4
TOTAL TEST			49.39	0.088	0.59	1154	62	58	14.57	4.84	29.2	103.0

PROJECT NUMBER: CA0053880
TEST NUMBER: HG-2
DATE: 08-Sep-25
TIME:

	1st Traverse	2nd Traverse
Start	09:10	10:22
Finish	10:10	11:22

COMPANY: Baffinland
LOCATION: Milne Port, Baffin Island, NU
SOURCE: Port Eco Waste Incinerator

TRAVERSE POINT DATA

POINT NO.	CLOCK TIME	SAMPLE TIME (min)	GAS VOLUME (ft3)	dP (in H2O)	dH (in H2O)	STACK TEMP (deg F)	GAS METER TEMP IN (deg F)	GAS METER TEMP OUT (deg F)	O2 (% dry)	CO2 (% dry)	GAS VELOCITY (ft/s)	%I
1	09:10	0.0	574.45	0.110	0.78	1116	47	47	12.76	5.77	32.3	108.5
	09:15	5.0	576.82	0.120	0.80	1221	49	47	12.72	6.38	34.8	107.5
2	09:20	10.0	579.20	0.100	0.70	1095	52	48	13.32	5.91	30.6	106.2
	09:25	15.0	581.44	0.100	0.70	1119	53	49	13.47	5.71	30.8	106.8
3	09:30	20.0	583.68	0.100	0.68	1121	54	49	13.52	5.64	30.8	106.7
	09:35	25.0	585.92	0.110	0.73	1176	55	50	13.03	5.98	32.9	107.0
4	09:40	30.0	588.24	0.110	0.70	1189	55	50	13.16	6.00	33.0	105.1
	09:45	35.0	590.51	0.110	0.70	1192	55	51	13.26	5.91	33.0	104.6
5	09:50	40.0	592.77	0.110	0.68	1195	56	51	13.13	5.96	33.1	-359.7
	09:55	45.0	585.00	0.110	0.68	1204	56	52	13.01	6.12	33.2	567.2
6	10:00	50.0	597.23	0.110	0.66	1219	56	52	13.08	6.05	33.3	103.4
	10:05	55.0	599.45	0.110	0.66	1218	57	52	14.59	4.78	33.3	100.5
	10:10	60.0	601.61									
Traverse 1			27.16	0.108	0.71	1172	54	50	13.25	5.85	32.6	105.3

PROJECT NUMBER: CA0053880
TEST NUMBER: HG-2
DATE: 08-Sep-25

COMPANY: Baffinland
LOCATION: Milne Port, Baffin Island, NU
SOURCE: Port Eco Waste Incinerator

POINT NO.	CLOCK TIME	SAMPLE TIME (min)	GAS VOLUME (ft3)	dP (in H2O)	dH (in H2O)	STACK TEMP (deg F)	GAS METER TEMP IN (deg F)	GAS METER TEMP OUT (deg F)	O2 (% dry)	CO2 (% dry)	GAS VELOCITY (ft/s)	%I
1	10:22	0.0	601.61	0.070	0.35	1222	53	52	13.09	5.86	26.6	93.7
	10:27	5.0	603.21	0.070	0.45	1229	54	52	13.02	6.12	26.7	107.3
2	10:32	10.0	605.04	0.070	0.44	1230	55	52	13.18	6.05	26.7	105.5
	10:37	15.0	606.84	0.110	0.70	1224	56	53	13.57	5.69	33.4	103.9
3	10:42	20.0	609.07	0.110	0.70	1228	57	54	13.15	6.05	33.4	104.3
	10:47	25.0	611.31	0.100	0.65	1180	58	54	14.29	5.29	31.4	106.3
4	10:52	30.0	613.52	0.090	0.60	1147	58	54	14.38	4.96	29.5	105.9
	10:57	35.0	615.63	0.090	0.58	1148	59	55	14.47	4.93	29.5	107.7
5	11:02	40.0	617.78	0.090	0.58	1139	60	55	14.57	4.84	29.4	99.8
	11:07	45.0	619.78	0.090	0.58	1147	60	55	14.50	4.89	29.5	106.1
6	11:12	50.0	621.90	0.090	0.58	1143	60	55	14.59	4.84	29.4	104.4
	11:17	55.0	623.99	0.090	0.58	1151	61	57	14.58	4.89	29.5	102.4
	11:22	60.0	626.04									
Traverse 2			24.43	0.089	0.57	1182	58	54	13.95	5.37	29.6	104.0
TOTAL TEST			51.59	0.099	0.64	1177	56	52	13.60	5.61	31.1	104.6

PROJECT NUMBER:	CA0053880	COMPANY:	Baffinland
TEST NUMBER:	HG-3	LOCATION:	Milne Port, Baffin Island, NU
DATE:	09-Sep-25	SOURCE:	Port Eco Waste Incinerator

TIME:	1st Traverse	2nd Traverse
Start	10:38	11:45
Finish	11:38	12:45

TRAVERSE POINT DATA

POINT NO.	CLOCK TIME	SAMPLE TIME (min)	GAS VOLUME (ft3)	dP (in H2O)	dH (in H2O)	STACK TEMP (deg F)	GAS METER TEMP IN (deg F)	GAS METER TEMP OUT (deg F)	O2 (% dry)	CO2 (% dry)	GAS VELOCITY (ft/s)	%I
1	10:38	0.0	813.14	0.130	0.88	1192	48	48	12.7	6.48	36.0	107.4
	10:43	5.0	815.65	0.080	0.55	1066	48	48	13.6	5.64	27.2	106.9
2	10:48	10.0	817.69	0.100	0.69	1106	49	48	13.6	5.64	30.8	106.8
	10:53	15.0	819.94	0.100	0.68	1124	51	49	13.5	5.64	30.9	105.1
3	10:58	20.0	822.15	0.100	0.67	1128	52	49	18.3	-5.86	31.0	102.3
	11:03	25.0	824.30	0.100	0.67	1136	52	49	13.8	5.40	31.1	111.6
4	11:08	30.0	826.64	0.120	0.76	1213	55	51	12.6	6.24	34.8	104.3
	11:13	35.0	828.99	0.120	0.76	1204	57	52	13.1	5.99	34.7	106.8
5	11:18	40.0	831.41	0.120	0.75	1207	58	52	12.7	6.24	34.8	104.1
	11:23	45.0	833.77	0.100	0.65	1197	59	53	12.9	5.99	31.6	102.4
6	11:28	50.0	835.90	0.100	0.65	1222	60	55	12.7	6.12	31.9	108.7
	11:33	55.0	838.15	0.100	0.64	1212	60	55	12.9	6.12	31.8	103.1
	11:38	60.0	840.29									
Traverse 1			27.15	0.106	0.70	1167	54	51	13.5	4.97	32.2	105.8

PROJECT NUMBER:	CA0053880	COMPANY:	Baffinland
TEST NUMBER:	HG-3	LOCATION:	Milne Port, Baffin Island, NU
DATE:	09-Sep-25	SOURCE:	Port Eco Waste Incinerator

POINT NO.	CLOCK TIME	SAMPLE TIME (min)	GAS VOLUME (ft3)	dP (in H2O)	dH (in H2O)	STACK TEMP (deg F)	GAS METER TEMP IN (deg F)	GAS METER TEMP OUT (deg F)	O2 (% dry)	CO2 (% dry)	GAS VELOCITY (ft/s)	%I
1	11:45	0.0	840.29	0.040	0.25	1170	57	55	13.6	5.64	19.9	105.5
	11:50	5.0	841.69	0.040	0.25	1202	59	56	13.4	5.76	20.0	103.2
2	11:55	10.0	843.05	0.110	0.70	1229	60	57	13.7	5.64	33.5	101.8
	12:00	15.0	845.26	0.110	0.70	1209	691	57	12.9	6.36	33.3	64.9
3	12:05	20.0	847.54	0.110	0.68	1247	62	58	14.0	5.52	33.7	104.4
	12:10	25.0	849.80	0.120	0.80	1203	62	58	14.5	5.17	34.7	104.3
4	12:15	30.0	852.19	0.090	0.60	1144	64	58	14.6	4.93	29.5	104.7
	12:20	35.0	854.31	0.090	0.58	1140	64	60	14.8	4.70	29.5	103.4
5	12:25	40.0	856.41	0.080	0.54	1113	64	60	14.9	4.70	27.6	104.1
	12:30	45.0	858.42	0.080	0.52	1121	64	60	15.1	4.58	27.7	102.2
6	12:35	50.0	860.39	0.040	0.24	1048	64	60	15.3	4.35	19.1	101.0
	12:40	55.0	861.80	0.040	0.24	1043	64	60	15.3	4.35	19.1	96.5
	12:45	60.0	863.15									
Traverse 2			22.86	0.079	0.51	1156	115	58	14.3	5.14	27.3	99.7
TOTAL TEST			50.01	0.093	0.60	1162	84	55	13.9	5.06	29.8	102.7

Project Number	**CA0053880**
Company Name	**Baffinland**
Location	**Mary River, Baffin Island, NU**
Source	**Mary River Eco Waste Incinerator**
Test Type	**Dioxins/Furans**

Test Number		**ORG-1**	**ORG-2**	**ORG-3**
Date		11-Sep-25	12-Sep-25	13-Sep-25
Start Time Trav. 1		10:07	10:29	10:20
End Time Trav. 1		12:07	12:29	12:20
Start Time Trav. 2		12:21	12:42	12:33
End Time Trav. 2		14:21	14:42	14:33
Number of Traverses Tested		2	2	2
Gas Meter Coefficient		1.003	1.003	1.003
Pitot Tube Coefficient		0.840	0.840	0.840
Stack Diameter	feet	2.63	2.63	2.63
Nozzle Diameter	inches	0.500	0.500	0.500
Barometric Pressure	" Hg	30.50	30.54	30.50
Static Pressure	" H2O	-0.11	-0.14	-0.11
Impinger Collection				
Impinger 1	g	135	156	142
Impinger 2	g	22	21	17
Impinger 3	g	-1	-1	-2
Impinger 4	g	7	8	9
Total		163.0	184.0	166.0

Test Number		**ORG-1**	**ORG-2**	**ORG-3**	**Averages**
Equivalent Moisture Sample Volume	rcf	7.8	8.8	8.0	
Dry Gas Sample Volume at Meter	cf	129.08	135.37	127.81	130.75
Average Meter Temp	°F	65	64	65	65
Average Meter Pressure	"H2O	0.98	0.56	0.46	0.66
Dry Ref. Sample Volume	drcf	134.96	141.86	133.31	136.71
Dry Ref. Sample Volume	drm3	3.823	4.019	3.776	3.873
Stack Area	ft2	5.41	5.41	5.41	
Nozzle Area	inches2	0.1963	0.1963	0.1963	
Stack Pressure	"Hg	30.49	30.53	30.49	30.50
Potential Saturation Moisture	%	>100%	>100%	>100%	
Dry Mol. Weight of Gas	g/gmol	29.40	29.39	29.38	29.39
Wet Mol. Weight of Gas	g/gmol	28.77	28.72	28.74	28.75

STACK PARAMETERS SUMMARY					
Test Number		**ORG-1**	**ORG-2**	**ORG-3**	**Averages**
Moisture Vapour Content*	% v/v	5.47%	5.85%	5.63%	5.65%
Oxygen	% v/v dry	14.8%	14.3%	14.4%	14.5%
Carbon Dioxide	% v/v dry	5.04%	5.10%	5.05%	5.06%
Argon	% v/v dry	0.08%	0.08%	0.08%	0.08%
Nitrogen	% v/v dry	80.08%	80.50%	80.49%	80.35%
Average Stack Velocity	ft/s	23.9	25.5	24.2	24.5
	m/s	7.28	7.78	7.37	7.48
Average Stack Temperature	°F	1370	1394	1399	1388
	°C	743	757	760	753
Actual Stack Flow	acfm	7754	8291	7846	7964
	am3/s	3.66	3.91	3.70	3.76
Dry Ref. Stack Flow	drcfm	2198	2314	2185	2232
	drm3/s	1.04	1.09	1.03	1.05

*Moisture Content is calculated from the lower of measured and saturation moisture (based on stack temperature)

Project Number		**CA0053880**					
Company Name		**Baffinland**					
Location		**Mary River, Baffin Island, NU**					
Source		**Mary River Eco Waste Incinerator**					
Test Type		**Dioxins/Furans**					
Analysis		**ORG-1**	**ORG-2**	**ORG-3**	**Average**		
Dioxins/Furans TEQ	TEQ pg	981.3	688.2	482			
2,3,7,8-TCDD	pg	2.4	2.78	3.5			
1,2,3,7,8-PeCDD	pg	12.3	11.4	21.8			
1,2,3,4,7,8-HxCDD	pg	7	11	25.3			
1,2,3,6,7,8-HxCDD	pg	29.2	33.6	52.3			
1,2,3,7,8,9-HxCDD	pg	16.6	17.7	37.8			
1,2,3,4,6,7,8-HpCDD	pg	176	267	584			
OCDD	pg	205	448	1410			
2,3,7,8-TCDF	pg	17.4	19.9	37.7			
1,2,3,7,8-PeCDF	pg	18	23	64.9			
2,3,4,7,8-PeCDF	pg	50.8	75.6	264			
1,2,3,4,7,8-HxCDF	pg	33	56.4	164			
1,2,3,6,7,8-HxCDF	pg	49.5	69.1	231			
2,3,4,6,7,8-HxCDF	pg	149	153	690			
1,2,3,7,8,9-HxCDF	pg	44.8	48.8	261			
1,2,3,4,6,7,8-HpCDF	pg	365	482	1850			
1,2,3,4,7,8,9-HpCDF	pg	56.8	95	536			
OCDF	pg	293	434	3860			
PCB-081	pg	23.3	40.9	33			
PCB-077	pg	1600000	863000	234000			
PCB-123	pg	12.3	8.79	13.1			
PCB-118	pg	906	643	222			
PCB-114	pg	9.81	15	10			
PCB-105	pg	218	192	120			
PCB-126	pg	7360	5030	1650			
PCB-167	pg	113	91.3	46			
PCB-156/157	pg	296	234	153			
PCB-169	pg	466	386	172			
PCB-189	pg	97.9	76.3	112			
Concentration							
Dioxins/Furans	TEQ pg/DRm3	256.7	171.3	128	185	**Criteria**	
Dioxins/Furans corrected to 11% O_2	**TEQ pg/DRm3**	**416.7**	**258.0**	**194.0**	**289.6**	**80**	**362%**
2,3,7,8-TCDD	pg/DRm3	0.628	0.692	0.93	0.75		
1,2,3,7,8-PeCDD	pg/DRm3	3.22	2.84	6	3.9		
1,2,3,4,7,8-HxCDD	pg/DRm3	1.83	2.74	7	3.8		
1,2,3,6,7,8-HxCDD	pg/DRm3	7.6	8.36	14	10		
1,2,3,7,8,9-HxCDD	pg/DRm3	4.3	4.40	10	6		
1,2,3,4,6,7,8-HpCDD	pg/DRm3	46	66.4	155	89		
OCDD	pg/DRm3	54	111.5	373	179		
2,3,7,8-TCDF	pg/DRm3	4.55	4.95	9.983	6.50		
1,2,3,7,8-PeCDF	pg/DRm3	4.7	5.72	17.2	9.2		
2,3,4,7,8-PeCDF	pg/DRm3	13.3	18.8	70	34.0		
1,2,3,4,7,8-HxCDF	pg/DRm3	8.6	14.0	43	22.0		
1,2,3,6,7,8-HxCDF	pg/DRm3	12.9	17.2	61	30.4		
2,3,4,6,7,8-HxCDF	pg/DRm3	39.0	38.1	183	87		
1,2,3,7,8,9-HxCDF	pg/DRm3	11.7	12.14	69.1	31.0		
1,2,3,4,6,7,8-HpCDF	pg/DRm3	95	120	490	235		
1,2,3,4,7,8,9-HpCDF	pg/DRm3	14.9	23.6	141.9	60.1		
OCDF	pg/DRm3	76.6	108.0	1022	402		
PCB-081	pg/DRm3	6.1	10.2	9	8		
PCB-077	pg/DRm3	418485.2	214749.8	61964	231733		
PCB-123	pg/DRm3	3.2	2.2	3	3		
PCB-118	pg/DRm3	237.0	160.0	59	152		
PCB-114	pg/DRm3	2.6	3.7	3	3		
PCB-105	pg/DRm3	57.0	47.8	32	46		
PCB-126	pg/DRm3	1925.0	1251.7	437	1205		
PCB-167	pg/DRm3	29.6	22.7	12	21		
PCB-156/157	pg/DRm3	77.4	58.2	41	59		
PCB-169	pg/DRm3	121.9	96.1	46	88		
PCB-189	pg/DRm3	25.6	19.0	30	25		

Project Number		**CA0053880**			
Company Name		**Baffinland**			
Location		**Mary River, Baffin Island, NU**			
Source		**Mary River Eco Waste Incinerator**			
Test Type		**Dioxins/Furans**			
Emissions	TEQ pg/s	266.4	187.1	131.7	195.0
	TEQ g/s	2.66E-10	1.87E-10	1.32E-10	1.95E-10
2,3,7,8-TCDD	pg/s	0.65	0.756	1.0	0.79
1,2,3,7,8-PeCDD	pg/s	3.34	3.10	6	4.1
1,2,3,4,7,8-HxCDD	pg/s	1.90	2.99	7	4
1,2,3,6,7,8-HxCDD	pg/s	7.9	9.1	14	10
1,2,3,7,8,9-HxCDD	pg/s	4.5	4.81	10	7
1,2,3,4,6,7,8-HpCDD	pg/s	48	72.6	160	93
OCDD	pg/s	56	122	385	188
2,3,7,8-TCDF	pg/s	4.7	5.41	10.30	6.81
1,2,3,7,8-PeCDF	pg/s	4.9	6.25	17.7	9.6
2,3,4,7,8-PeCDF	pg/s	13.8	20.6	72	35.5
1,2,3,4,7,8-HxCDF	pg/s	9.0	15.3	45	23.0
1,2,3,6,7,8-HxCDF	pg/s	13.4	18.8	63	31.8
2,3,4,6,7,8-HxCDF	pg/s	40.4	41.6	189	90
1,2,3,7,8,9-HxCDF	pg/s	12.2	13.3	71	32.2
1,2,3,4,6,7,8-HpCDF	pg/s	99	131	505	245
1,2,3,4,7,8,9-HpCDF	pg/s	15.4	25.8	146	62.6
OCDF	pg/s	80	118.0	1055	417
PCB-081	pg/s	6.3	11.12	9.02	8.82
PCB-077	pg/s	434295.8	234585.92	63931.87	244271.20
PCB-123	pg/s	3.3	2.39	3.58	3.10
PCB-118	pg/s	245.9	174.78	60.65	160.45
PCB-114	pg/s	2.7	4.08	2.73	3.16
PCB-105	pg/s	59.2	52.19	32.79	48.05
PCB-126	pg/s	1997.8	1367.29	450.80	1271.95
PCB-167	pg/s	30.7	24.82	12.57	22.69
PCB-156/157	pg/s	80.3	63.61	41.80	61.92
PCB-169	pg/s	126.5	104.92	46.99	92.80
PCB-189	pg/s	26.6	20.74	30.60	25.97

PROJECT NUMBER: CA0053880
TEST NUMBER: ORG-1
DATE: 11-Sep-25
TIME:

	1st Traverse	2nd Traverse
Start	10:07	12:21
Finish	12:07	14:21

COMPANY: Baffinland
LOCATION: Mary River, Baffin Island, NU
SOURCE: Mary River Eco Waste Incinerator

TRAVERSE POINT DATA

POINT NO.	CLOCK TIME	SAMPLE TIME (min)	GAS VOLUME (ft3)	dP (in H2O)	dH (in H2O)	STACK TEMP (deg F)	GAS METER TEMP IN (deg F)	GAS METER TEMP OUT (deg F)	O2 (% dry)	CO2 (% dry)	GAS VELOCITY (ft/s)	%I
1	10:07	0.0	63.43	0.030	0.59	1280	61	60	16.0	3.5	17.5	105.3
	10:12	5.0	65.55	0.030	0.59	1275	61	60	14.8	5.0	17.5	104.2
	10:17	10.0	67.65	0.030	0.59	1275	61	60	14.9	4.9	17.5	104.2
	10:22	15.0	69.75	0.030	0.58	1276	63	60	14.9	4.9	17.5	105.5
2	10:27	20.0	71.88	0.030	0.57	1284	63	60	14.9	4.9	17.5	103.2
	10:32	25.0	73.96	0.030	0.57	1279	63	60	15.0	4.9	17.5	101.1
	10:37	30.0	76.00	0.030	0.57	1270	63	60	14.9	4.9	17.4	107.8
	10:42	35.0	78.18	0.030	0.57	1269	65	60	14.9	5.0	17.4	104.1
3	10:47	40.0	80.29	0.040	0.80	1284	65	61	15.1	4.9	20.2	104.2
	10:52	45.0	82.72	0.040	0.80	1280	65	61	14.9	4.9	20.2	105.4
	10:57	50.0	85.18	0.070	1.30	1416	66	61	14.1	5.6	27.7	102.6
	11:02	55.0	88.23	0.070	1.30	1416	66	61	14.0	5.7	27.7	103.2
4	11:07	60.0	91.30	0.070	1.00	1412	67	61	13.9	5.7	27.7	93.2
	11:12	65.0	94.08	0.070	1.20	1413	67	61	13.9	5.8	27.7	96.7
	11:17	70.0	96.96	0.070	1.30	1411	67	61	14.1	5.7	27.7	100.0
	11:22	75.0	99.94	0.070	1.30	1416	67	61	14.0	5.7	27.7	100.1
5	11:27	80.0	102.92	0.070	1.30	1411	67	61	14.1	5.7	27.7	100.0
	11:32	85.0	105.90	0.070	1.30	1416	67	61	14.1	5.6	27.7	100.1
	11:37	90.0	108.88	0.070	1.30	1411	68	61	14.2	5.5	27.7	100.6
	11:42	95.0	111.88	0.070	1.30	1407	68	62	14.9	5.1	27.7	100.0
6	11:47	100.0	114.87	0.060	1.20	1333	68	62	15.5	4.5	25.1	100.9
	11:52	105.0	117.72	0.060	1.20	1325	68	62	15.5	4.4	25.0	107.0
	11:57	110.0	120.75	0.060	1.20	1328	68	62	15.6	4.4	25.1	102.9
	12:02	115.0	123.66	0.060	1.20	1327	68	62	15.6	4.4	25.1	100.7
	12:07	120.0	126.51									
Traverse 1			63.08	0.053	0.98	1342	66	61	14.8	5.1	23.2	102.2

PROJECT NUMBER: CA0053880
TEST NUMBER: ORG-1
DATE: 11-Sep-25

COMPANY: Baffinland
LOCATION: Mary River, Baffin Island, NU
SOURCE: Mary River Eco Waste Incinerator

POINT NO.	CLOCK TIME	SAMPLE TIME (min)	GAS VOLUME (ft3)	dP (in H2O)	dH (in H2O)	STACK TEMP (deg F)	GAS METER TEMP IN (deg F)	GAS METER TEMP OUT (deg F)	O2 (% dry)	CO2 (% dry)	GAS VELOCITY (ft/s)	%I
1	12:21	0.0	126.72	0.050	1.00	1388	63	62	15.1	4.6	23.3	107.2
	12:26	5.0	129.43	0.050	1.00	1392	65	62	15.0	5.0	23.3	106.3
	12:31	10.0	132.12	0.050	0.97	1392	66	62	15.1	4.9	23.3	106.2
	12:36	15.0	134.81	0.050	0.97	1395	66	63	15.1	4.8	23.3	107.7
2	12:41	20.0	137.54	0.050	0.95	1384	66	63	15.1	4.8	23.2	105.0
	12:46	25.0	140.21	0.050	0.95	1390	67	63	15.1	4.8	23.3	105.9
	12:51	30.0	142.90	0.050	0.95	1387	68	63	15.2	4.8	23.3	105.3
	12:56	35.0	145.58	0.050	0.95	1383	68	63	15.2	4.8	23.2	105.6
3	13:01	40.0	148.27	0.050	0.95	1389	68	63	15.2	4.8	23.3	105.0
	13:06	45.0	150.94	0.050	0.95	1393	69	63	15.2	4.8	23.3	105.4
	13:11	50.0	153.62	0.050	0.95	1383	69	64	15.2	4.8	23.2	105.0
	13:16	55.0	156.30	0.050	0.94	1384	69	64	15.1	4.8	23.2	101.9
4	13:21	60.0	158.90	0.060	1.20	1408	69	64	14.0	5.6	25.6	105.2
	13:26	65.0	161.82	0.060	1.10	1400	70	64	14.5	5.5	25.6	102.7
	13:31	70.0	164.68	0.060	1.10	1404	70	65	15.0	4.9	25.6	103.4
	13:36	75.0	167.56	0.060	1.10	1397	70	65	14.6	5.1	25.5	103.6
5	13:41	80.0	170.45	0.070	1.20	1411	71	65	14.4	5.4	27.7	97.9
	13:46	85.0	173.39	0.060	1.10	1396	71	65	15.0	4.9	25.5	99.9
	13:51	90.0	176.18	0.060	1.10	1410	71	65	14.4	5.2	25.6	99.9
	13:56	95.0	178.96	0.060	1.10	1418	71	65	14.4	5.5	25.7	100.9
6	14:01	100.0	181.76	0.060	1.10	1410	71	65	15.0	5.1	25.6	99.2
	14:06	105.0	184.52	0.060	1.10	1410	71	65	14.1	5.5	25.6	98.5
	14:11	110.0	187.26	0.060	1.10	1416	71	66	14.6	5.4	25.7	98.9
	14:16	115.0	190.01	0.060	1.10	1407	71	66	14.9	4.3	25.6	97.2
	14:21	120.0	192.72									
Traverse 2			66.00	0.055	1.04	1398	69	64	14.8	5.0	24.5	103.1
TOTAL TEST			129.08	0.054	1.01	1370	67	62	14.8	5.0	23.9	102.6

PROJECT NUMBER: CA0053880
TEST NUMBER: ORG-2
DATE: 12-Sep-25
TIME:

	1st Traverse	2nd Traverse
Start	10:29	12:42
Finish	12:29	14:42

COMPANY: Baffinland
LOCATION: Mary River, Baffin Island, NU
SOURCE: Mary River Eco Waste Incinerator

TRAVERSE POINT DATA

POINT NO.	CLOCK TIME	SAMPLE TIME (min)	GAS VOLUME (ft3)	dP (in H2O)	dH (in H2O)	STACK TEMP (deg F)	GAS METER TEMP IN (deg F)	GAS METER TEMP OUT (deg F)	O2 (% dry)	CO2 (% dry)	GAS VELOCITY (ft/s)	%I
1	10:29	0.0	230.21	0.040	0.80	1320	58	57	15.2	4.5	20.4	100.7
	10:34	5.0	232.50	0.050	0.95	1334	60	58	14.1	5.3	22.9	105.5
	10:39	10.0	235.18	0.050	0.95	1334	61	58	14.3	5.2	22.9	103.4
	10:44	15.0	237.81	0.050	0.95	1339	63	58	14.3	5.1	23.0	103.8
2	10:49	20.0	240.45	0.050	0.95	1340	63	59	14.3	5.2	23.0	103.7
	10:54	25.0	243.09	0.050	0.95	1343	63	59	14.3	5.2	23.0	103.4
	10:59	30.0	245.72	0.050	0.95	1345	64	59	14.3	5.1	23.0	104.1
	11:04	35.0	248.37	0.050	0.95	1339	64	59	14.2	5.1	23.0	103.6
3	11:09	40.0	251.01	0.070	1.04	1377	64	59	13.9	5.4	27.5	90.5
	11:14	45.0	253.71	0.070	1.00	1399	65	60	13.7	5.6	27.6	93.2
	11:19	50.0	256.48	0.070	1.30	1394	66	60	13.8	5.5	27.6	99.4
	11:24	55.0	259.44	0.070	1.40	1394	66	60	13.9	5.5	27.6	100.5
4	11:29	60.0	262.43	0.070	1.40	1395	66	60	13.7	5.5	27.6	100.5
	11:34	65.0	265.42	0.070	1.40	1400	66	60	13.5	5.7	27.6	104.3
	11:39	70.0	268.52	0.070	1.40	1446	67	61	13.5	5.7	28.0	101.7
	11:44	75.0	271.51	0.070	1.40	1440	67	61	13.5	5.7	27.9	100.8
5	11:49	80.0	274.48	0.070	1.40	1449	67	61	14.1	5.4	28.0	100.1
	11:54	85.0	277.42	0.060	1.20	1384	67	61	14.5	5.0	25.5	104.7
	11:59	90.0	280.32	0.060	1.20	1395	67	61	14.4	5.0	25.5	100.3
	12:04	95.0	283.09	0.060	1.20	1395	67	61	14.4	5.0	25.5	106.8
6	12:09	100.0	286.04	0.060	1.10	1386	67	61	14.9	4.8	25.5	100.8
	12:14	105.0	288.83	0.040	0.80	1341	66	61	15.1	4.5	20.5	108.4
	12:19	110.0	291.31	0.040	0.80	1339	66	61	15.1	4.5	20.5	108.3
	12:24	115.0	293.79	0.040	0.80	1326	66	61	15.0	4.6	20.5	107.9
	12:29	120.0	296.27									
Traverse 1			66.06	0.058	1.10	1373	65	60	14.3	5.2	24.8	102.4

PROJECT NUMBER: CA0053880
TEST NUMBER: ORG-2
DATE: 12-Sep-25

COMPANY: Baffinland
LOCATION: Mary River, Baffin Island, NU
SOURCE: Mary River Eco Waste Incinerator

POINT NO.	CLOCK TIME	SAMPLE TIME (min)	GAS VOLUME (ft3)	dP (in H2O)	dH (in H2O)	STACK TEMP (deg F)	GAS METER TEMP IN (deg F)	GAS METER TEMP OUT (deg F)	O2 (% dry)	CO2 (% dry)	GAS VELOCITY (ft/s)	%I
1	12:42	0.0	296.51	0.050	0.95	1393	62	61	14.4	4.8	23.3	105.5
	12:47	5.0	299.16	0.050	0.94	1413	64	61	14.0	5.3	23.4	105.5
	12:52	10.0	301.80	0.050	0.90	1414	65	61	14.0	5.3	23.4	100.6
	12:57	15.0	304.32	0.050	0.90	1413	66	61	14.1	5.3	23.4	100.9
2	13:02	20.0	306.85	0.070	1.40	1418	66	61	14.3	5.1	27.8	105.7
	13:07	25.0	309.98	0.070	1.40	1422	67	62	14.5	5.0	27.8	107.3
	13:12	30.0	313.16	0.070	1.40	1416	68	62	14.4	5.0	27.7	105.4
	13:17	35.0	316.29	0.070	1.30	1416	68	62	14.5	5.0	27.7	101.7
3	13:22	40.0	319.31	0.070	1.30	1416	63	62	14.5	5.0	27.7	101.5
	13:27	45.0	322.31	0.070	1.30	1416	69	63	14.5	5.0	27.7	100.1
	13:32	50.0	325.29	0.070	1.30	1414	69	63	14.5	5.0	27.7	98.7
	13:37	55.0	328.23	0.070	1.30	1411	69	63	14.5	4.9	27.7	101.0
4	13:42	60.0	331.24	0.070	1.30	1424	69	63	14.4	5.0	27.8	100.7
	13:47	65.0	334.23	0.070	1.30	1423	69	63	14.4	5.0	27.8	101.7
	13:52	70.0	337.25	0.070	1.30	1421	69	63	14.4	5.0	27.8	101.3
	13:57	75.0	340.26	0.070	1.30	1420	69	63	14.5	5.0	27.8	100.9
5	14:02	80.0	343.26	0.070	1.30	1419	69	63	14.5	5.0	27.8	100.5
	14:07	85.0	346.25	0.070	1.30	1419	69	64	14.5	5.0	27.8	100.1
	14:12	90.0	349.23	0.070	1.30	1418	69	64	14.5	5.0	27.8	100.8
	14:17	95.0	352.23	0.070	1.30	1424	69	64	14.5	4.9	27.8	100.2
6	14:22	100.0	355.21	0.050	0.95	1416	69	64	14.4	5.0	23.4	107.1
	14:27	105.0	357.91	0.050	0.95	1417	69	64	14.5	5.0	23.5	105.2
	14:32	110.0	360.56	0.050	0.95	1409	69	64	14.6	4.9	23.4	105.4
	14:37	115.0	363.22	0.050	0.95	1405	69	64			23.4	102.9
	14:42	120.0	365.82									
Traverse 2			69.31	0.063	1.19	1416	68	63	14.4	5.0	26.3	102.5
TOTAL TEST			135.37	0.060	1.14	1394	66	61	14.3	5.1	25.5	102.4

PROJECT NUMBER: CA0053880
TEST NUMBER: ORG-3
DATE: 13-Sep-25
TIME:

	1st Traverse	2nd Traverse
Start	10:20	12:33
Finish	12:20	14:33

COMPANY: Baffinland
LOCATION: Mary River, Baffin Island, NU
SOURCE: Mary River Eco Waste Incinerator

TRAVERSE POINT DATA

POINT NO.	CLOCK TIME	SAMPLE TIME (min)	GAS VOLUME (ft3)	dP (in H2O)	dH (in H2O)	STACK TEMP (deg F)	GAS METER TEMP IN (deg F)	GAS METER TEMP OUT (deg F)	O2 (% dry)	CO2 (% dry)	GAS VELOCITY (ft/s)	%I
1	10:20	0.0	398.33	0.030	0.60	1326	62	61	15.6	3.5	17.7	108.1
	10:25	5.0	400.48	0.030	0.59	1342	63	61	14.3	5.1	17.8	97.9
	10:30	10.0	402.42	0.030	0.57	1329	63	61	14.5	5.1	17.7	105.6
	10:35	15.0	404.52	0.030	0.56	1330	64	61	14.4	5.1	17.7	104.5
2	10:40	20.0	406.60	0.030	0.55	1338	65	61	14.4	5.1	17.8	104.1
	10:45	25.0	408.67	0.030	0.55	1344	65	62	14.4	5.1	17.8	105.2
	10:50	30.0	410.76	0.030	0.55	1325	65	62	14.4	5.1	17.7	103.2
	10:55	35.0	412.82	0.030	0.55	1335	65	62	13.9	5.4	17.8	104.5
3	11:00	40.0	414.90	0.070	1.40	1433	65	62	13.9	5.5	27.9	101.2
	11:05	45.0	417.89	0.070	1.40	1432	67	62	14.0	5.4	27.9	101.6
	11:10	50.0	420.90	0.070	1.40	1430	67	62	14.1	5.3	27.9	113.0
	11:15	55.0	424.25	0.070	1.20	1417	68	62	13.8	5.4	27.8	100.0
4	11:20	60.0	427.23	0.070	1.20	1447	68	63	13.5	5.7	28.0	98.4
	11:25	65.0	430.14	0.070	1.30	1459	69	63	13.7	5.7	28.1	101.7
	11:30	70.0	433.14	0.070	1.30	1452	68	63	13.6	5.7	28.0	100.2
	11:35	75.0	436.10	0.070	1.30	1460	68	63	13.7	5.7	28.1	98.1
5	11:40	80.0	438.99	0.060	1.00	1376	69	63	14.3	5.2	25.4	98.4
	11:45	85.0	441.74	0.060	1.00	1377	68	63	14.4	5.1	25.4	98.2
	11:50	90.0	444.48	0.060	1.10	1378	68	63	14.4	5.1	25.4	101.1
	11:55	95.0	447.30	0.060	1.10	1380	68	63	14.7	4.9	25.4	96.8
6	12:00	100.0	450.00	0.040	0.80	1316	68	63	15.2	4.4	20.4	106.5
	12:05	105.0	452.47	0.040	0.80	1318	68	63	15.2	4.5	20.4	100.5
	12:10	110.0	454.80	0.040	0.80	1322	68	63	15.1	4.5	20.4	112.7
	12:15	115.0	457.41	0.040	0.80	1320	68	63	15.2	4.5	20.4	104.5
	12:20	120.0	459.83									
Traverse 1			61.50	0.050	0.93	1374	67	62	14.4	5.1	22.9	102.7

PROJECT NUMBER: CA0053880
TEST NUMBER: ORG-3
DATE: 13-Sep-25

COMPANY: Baffinland
LOCATION: Mary River, Baffin Island, NU
SOURCE: Mary River Eco Waste Incinerator

POINT NO.	CLOCK TIME	SAMPLE TIME (min)	GAS VOLUME (ft3)	dP (in H2O)	dH (in H2O)	STACK TEMP (deg F)	GAS METER TEMP IN (deg F)	GAS METER TEMP OUT (deg F)	O2 (% dry)	CO2 (% dry)	GAS VELOCITY (ft/s)	%I
1	12:33	0.0	460.14	0.040	0.75	1394	64	63	13.8	5.1	20.9	100.4
	12:38	5.0	462.41	0.040	0.75	1417	66	63	13.8	5.5	21.0	110.6
	12:43	10.0	464.90	0.040	0.73	1419	66	63	14.0	5.4	21.0	104.9
	12:48	15.0	467.26	0.040	0.72	1420	67	63	14.2	5.2	21.0	104.8
2	12:53	20.0	469.62	0.060	1.00	1428	68	63	14.1	5.3	25.8	99.1
	12:58	25.0	472.35	0.060	1.00	1426	68	63	14.2	5.2	25.8	99.8
	13:03	30.0	475.10	0.060	1.00	1410	68	64	14.3	5.1	25.7	100.4
	13:08	35.0	477.88	0.060	1.00	1419	69	64	14.4	5.1	25.7	100.2
3	13:13	40.0	480.65	0.070	1.20	1410	69	64	14.6	4.9	27.7	96.9
	13:18	45.0	483.55	0.070	1.20	1432	69	64	14.6	4.9	27.9	100.2
	13:23	50.0	486.53	0.070	1.20	1426	69	64	14.5	4.9	27.8	100.0
	13:28	55.0	489.51	0.070	1.20	1438	69	64	14.6	4.9	27.9	98.3
4	13:33	60.0	492.43	0.070	1.20	1427	69	65	14.5	4.9	27.8	99.3
	13:38	65.0	495.39	0.070	1.20	1425	69	65	14.5	4.9	27.8	100.2
	13:43	70.0	498.38	0.070	1.20	1431	69	65	14.6	4.9	27.9	99.7
	13:48	75.0	501.35	0.070	1.20	1433	69	65	14.6	4.9	27.9	99.4
5	13:53	80.0	504.31	0.070	1.20	1436	69	65	14.5	4.9	27.9	100.5
	13:58	85.0	507.30	0.070	1.20	1435	69	65	14.6	4.9	27.9	100.8
	14:03	90.0	510.30	0.060	1.00	1434	70	65	14.6	4.8	25.8	99.7
	14:08	95.0	513.05	0.060	1.00	1424	70	65	14.6	4.8	25.7	99.0
6	14:13	100.0	515.79	0.050	0.97	1424	70	65	14.6	4.9	23.5	107.3
	14:18	105.0	518.50	0.050	0.95	1423	70	65	14.6	4.9	23.5	105.7
	14:23	110.0	521.17	0.050	0.95	1427	70	65	14.5	4.9	23.5	104.6
	14:28	115.0	523.81	0.050	0.95	1422	70	65			23.5	104.5
	14:33	120.0	526.45									
Traverse 2			66.31	0.059	1.03	1424	69	64	14.4	5.0	25.5	101.5
TOTAL TEST			127.81	0.055	0.98	1399	68	63	14.4	5.0	24.2	102.1

Project Number	**CA0053880.5555**
Company Name	**Baffinland**
Location	**Mary River, Baffin Island, NU**
Source	**Mary River Eco Waste Incinerator**
Test Type	**Mercury**

Test Number		**HG-1**	**HG-2**	**HG-3**
Date		11-Sep-25	12-Sep-25	13-Sep-25
Start Time Trav. 1		07:39	08:01	07:53
End Time Trav. 1		08:39	09:01	08:53
Start Time Trav. 2		08:46	09:08	09:04
End Time Trav. 2		09:46	10:08	10:04
Number of Traverses Tested		2	2	2
Gas Meter Coefficient		1.003	1.003	1.003
Pitot Tube Coefficient		0.840	0.840	0.840
Stack Diameter	feet	2.63	2.63	2.63
Nozzle Diameter	inches	0.375	0.375	0.375
Barometric Pressure	" Hg	30.50	30.56	30.53
Static Pressure	" H2O	-0.10	-0.14	-0.14
Impinger Collection				
Impinger 1	g	51	56	56
Impinger 2	g	10	20	5
Impinger 3	g	1	1	0
Impinger 4	g	6	6	4
Total		68.0	83.0	65.0

Test Number		**HG-1**	**HG-2**	**HG-3**	**Averages**
Equivalent Moisture Sample Volume	rcf	3.3	4.0	3.1	
Dry Gas Sample Volume at Meter	cf	34.12	36.80	31.84	34.25
Average Meter Temp	°F	54	54	56	55
Average Meter Pressure	"H2O	0.25	0.16	0.12	0.18
Dry Ref. Sample Volume	drcf	36.34	39.26	33.84	36.48
Dry Ref. Sample Volume	drm3	1.030	1.112	0.959	1.033
Stack Area	ft2	5.41	5.41	5.41	
Nozzle Area	inches2	0.1104	0.1104	0.1104	
Stack Pressure	"Hg	30.49	30.55	30.52	30.52
Potential Saturation Moisture	%	>100%	>100%	>100%	
Dry Mol. Weight of Gas	g/gmol	29.58	29.57	29.56	29.57
Wet Mol. Weight of Gas	g/gmol	28.63	28.50	28.58	28.57

STACK PARAMETERS SUMMARY					
Test Number		**HG-1**	**HG-2**	**HG-3**	**Averages**
Moisture Vapour Content*	% v/v	8.23%	9.20%	8.43%	8.62%
Oxygen	% v/v dry	12.6%	12.1%	12.5%	12.4%
Carbon Dioxide	% v/v dry	6.73%	6.76%	6.60%	6.70%
Argon	% v/v dry	0.08%	0.08%	0.08%	0.08%
Nitrogen	% v/v dry	80.59%	81.01%	80.83%	80.81%
Average Stack Velocity	ft/s	23.7	26.1	22.1	24.0
	m/s	7.22	7.95	6.75	7.30
Average Stack Temperature	°F	1369	1380	1372	1374
	°C	743	749	745	745
Actual Stack Flow	acfm	7688	8467	7186	7780
	am3/s	3.63	4.00	3.39	3.67
Dry Ref. Stack Flow	drcfm	2113	2294	1969	2125
	drm3/s	1.00	1.08	0.93	1.00

*Moisture Content is calculated from the lower of measured and saturation moisture (based on stack temperature)

Project Number		**CA0053880.5555**					
Company Name		**Baffinland**					
Location		**Mary River, Baffin Island, NU**					
Source		**Mary River Eco Waste Incinerator**					
Test Type		**Mercury**					
Test		**MET-1**	**MET-2**	**MET-3**	**Average**	**Criteria**	**% Criteria**
Analyses							
Hg - Imipingers	µg	0.075	0.562	1.31			
Hg - HCl Rinse	µg	0.750	0.750	0.750			
Hg - Total	**µg**	**0.825**	**0.750**	**0.750**			
Concentrations							
Hg	µg/DRm3	0.801	0.674	0.782	0.753		
Hg (corrected to 11%O2)	**µg/DRm3**	**0.956**	**0.763**	**0.921**	**0.880**	**20.00**	**4.40%**
Emissions							
Hg	**g/s**	**7.99E-07**	**7.30E-07**	**7.27E-07**	**7.52E-07**		

PROJECT NUMBER: CA0053880.5555
TEST NUMBER: HG-1
DATE: 11-Sep-25
TIME:

	1st Traverse	2nd Traverse
Start	07:39	08:46
Finish	08:39	09:46

COMPANY: Baffinland
LOCATION: Mary River, Baffin Island, NU
SOURCE: Mary River Eco Waste Incinerator

TRAVERSE POINT DATA

POINT NO.	CLOCK TIME	SAMPLE TIME (min)	GAS VOLUME (ft3)	dP (in H2O)	dH (in H2O)	STACK TEMP (deg F)	GAS METER TEMP IN (deg F)	GAS METER TEMP OUT (deg F)	O2 (% dry)	CO2 (% dry)	GAS VELOCITY (ft/s)	%I
1	07:39	0.0	29.01	0.020	0.12	1246	47	47			14.2	112.8
	07:44	5.0	30.01	0.020	0.10	1368	49	48			14.7	106.0
2	07:49	10.0	30.92	0.020	0.10	1408	49	49			14.8	104.7
	07:54	15.0	31.81	0.020	0.10	1416	50	49	9.02	9.43	14.9	104.8
3	07:59	20.0	32.70	0.090	0.48	1442	51	50	8.62	9.80	31.7	102.2
	08:04	25.0	34.53	0.090	0.47	1453	52	50	10.11	8.82	31.8	102.4
4	08:09	30.0	36.36	0.090	0.47	1464	53	51	10.27	8.57	31.9	104.7
	08:14	35.0	38.23	0.060	0.30	1367	54	51	11.07	8.20	25.4	76.7
5	08:19	40.0	39.38	0.050	0.25	1351	54	51	12.30	7.12	23.1	130.2
	08:24	45.0	41.17	0.050	0.25	1364	55	52	12.18	7.09	23.2	100.6
6	08:29	50.0	42.55	0.060	0.30	1404	55	52	11.71	7.39	25.7	99.5
	08:34	55.0	44.03	0.060	0.30	1385	56	52	11.92	7.36	25.5	103.0
	08:39	60.0	45.57									
Traverse 1			16.56	0.053	0.27	1389	52	50	10.8	8.2	23.1	104.0

PROJECT NUMBER: CA0053880.5555
TEST NUMBER: HG-1
DATE: 11-Sep-25

COMPANY: Baffinland
LOCATION: Mary River, Baffin Island, NU
SOURCE: Mary River Eco Waste Incinerator

POINT NO.	CLOCK TIME	SAMPLE TIME (min)	GAS VOLUME (ft3)	dP (in H2O)	dH (in H2O)	STACK TEMP (deg F)	GAS METER TEMP IN (deg F)	GAS METER TEMP OUT (deg F)	O2 (% dry)	CO2 (% dry)	GAS VELOCITY (ft/s)	%I
1	08:46	0.0	45.57	0.030	0.15	1269	55	54	13.8	5.9	17.5	102.4
	08:51	5.0	46.69	0.030	0.15	1277	57	55	13.8	5.6	17.5	102.3
2	08:56	10.0	47.81	0.040	0.20	1433	57	55	13.1	6.3	21.1	105.7
	09:01	15.0	49.09	0.090	0.45	1417	57	55	13.3	6.2	31.5	100.9
3	09:06	20.0	50.93	0.090	0.45	1405	58	55	13.0	6.3	31.4	101.6
	09:11	25.0	52.79	0.090	0.45	1436	60	56	13.0	6.4	31.7	101.1
4	09:16	30.0	54.63	0.090	0.45	1428	60	56	13.6	6.1	31.6	99.2
	09:21	35.0	56.44	0.050	0.25	1313	60	56	14.7	5.2	22.8	101.9
5	09:26	40.0	57.87	0.050	0.25	1320	60	56	14.8	5.1	22.9	100.6
	09:31	45.0	59.28	0.050	0.25	1311	60	58	14.7	5.1	22.8	98.8
6	09:36	50.0	60.67	0.050	0.25	1315	60	58	14.9	5.0	22.9	96.7
	09:41	55.0	62.03	0.030	0.15	1266	61	58	14.9	4.6	17.5	99.5
	09:46	60.0	63.13									
Traverse 2			17.56	0.058	0.29	1349	59	56	14.0	5.6	24.3	100.9
TOTAL TEST			34.12	0.055	0.28	1369	55	53	12.4	6.9	23.7	102.4

PROJECT NUMBER: CA0053880.5555
TEST NUMBER: HG-2
DATE: 12-Sep-25
TIME:

	1st Traverse	2nd Traverse
Start	08:01	09:08
Finish	09:01	10:08

COMPANY: Baffinland
LOCATION: Mary River, Baffin Island, NU
SOURCE: Mary River Eco Waste Incinerator

TRAVERSE POINT DATA

POINT NO.	CLOCK TIME	SAMPLE TIME (min)	GAS VOLUME (ft3)	dP (in H2O)	dH (in H2O)	STACK TEMP (deg F)	GAS METER TEMP IN (deg F)	GAS METER TEMP OUT (deg F)	O2 (% dry)	CO2 (% dry)	GAS VELOCITY (ft/s)	%I
1	08:01	0.0	193.07	0.070	0.40	1258	47	47	12.6	6.1	26.6	104.6
	08:06	5.0	194.78	0.070	0.38	1414	48	47	9.2	8.8	27.8	105.9
	08:11	10.0	196.44	0.070	0.36	1390	50	48	8.5	9.5	27.6	102.4
	08:16	15.0	198.06	0.070	0.35	1451	52	49	9.0	9.4	28.1	103.1
2	08:21	20.0	199.67	0.100	0.50	1456	52	50	9.8	8.7	33.6	102.4
	08:26	25.0	201.58	0.100	0.48	1461	54	51	10.0	8.5	33.7	101.7
	08:31	30.0	203.48	0.100	0.48	1463	55	51	10.2	8.3	33.7	100.0
	08:36	35.0	205.35	0.100	0.48	1487	56	52	10.2	8.3	33.9	100.5
3	08:41	40.0	207.22	0.100	0.48	1483	56	52	11.4	7.5	33.9	102.5
	08:46	45.0	209.13	0.050	0.26	1376	57	52	12.2	6.8	23.3	101.7
	08:51	50.0	210.51	0.050	0.26	1380	57	54	12.0	6.9	23.3	102.3
	08:56	55.0	211.90	0.050	0.26	1371	57	54	12.5	5.6	23.2	99.1
4	09:01	60.0	213.25									
Traverse 1			20.18	0.078	0.39	1416	53	51	10.6	7.9	29.1	102.2

PROJECT NUMBER: CA0053880.5555
TEST NUMBER: HG-2
DATE: 12-Sep-25

COMPANY: Baffinland
LOCATION: Mary River, Baffin Island, NU
SOURCE: Mary River Eco Waste Incinerator

POINT NO.	CLOCK TIME	SAMPLE TIME (min)	GAS VOLUME (ft3)	dP (in H2O)	dH (in H2O)	STACK TEMP (deg F)	GAS METER TEMP IN (deg F)	GAS METER TEMP OUT (deg F)	O2 (% dry)	CO2 (% dry)	GAS VELOCITY (ft/s)	%I
1	09:08	0.0	213.25	0.020	0.10	1200	55	55	13.4	5.9	14.0	100.7
	09:13	5.0	214.16	0.030	0.15	1240	57	55	14.6	4.9	17.4	101.3
	09:18	10.0	215.27	0.030	0.15	1271	57	55	14.3	5.1	17.5	100.3
	09:23	15.0	216.36	0.030	0.15	1290	57	56	14.1	5.3	17.6	98.9
2	09:28	20.0	217.43	0.040	0.20	1295	57	56	14.0	5.4	20.4	100.3
	09:33	25.0	218.68	0.070	0.35	1433	57	56	13.0	6.1	28.0	102.0
	09:38	30.0	220.30	0.070	0.34	1437	58	56	12.8	6.3	28.0	102.7
	09:43	35.0	221.93	0.070	0.34	1437	58	56	12.8	6.3	28.0	102.1
3	09:48	40.0	223.55	0.070	0.34	1439	58	57	13.4	6.0	28.0	102.0
	09:53	45.0	225.17	0.070	0.34	1364	58	57	13.8	5.6	27.5	100.6
	09:58	50.0	226.80	0.060	0.30	1353	58	57	13.8	5.5	25.3	99.7
	10:03	55.0	228.30	0.060	0.30	1363	58	57	13.8	5.5	25.4	104.6
4	10:08	60.0	229.87									
Traverse 2			16.62	0.052	0.26	1344	57	56	13.7	5.7	23.1	101.3
TOTAL TEST			36.80	0.065	0.32	1380	55	53	12.1	6.8	26.1	101.7

PROJECT NUMBER: CA0053880.5555
TEST NUMBER: HG-3
DATE: 13-Sep-25
TIME:

	1st Traverse	2nd Traverse
Start	07:53	09:04
Finish	08:53	10:04

COMPANY: Baffinland
LOCATION: Mary River, Baffin Island, NU
SOURCE: Mary River Eco Waste Incinerator

TRAVERSE POINT DATA

POINT NO.	CLOCK TIME	SAMPLE TIME (min)	GAS VOLUME (ft3)	dP (in H2O)	dH (in H2O)	STACK TEMP (deg F)	GAS METER TEMP IN (deg F)	GAS METER TEMP OUT (deg F)	O2 (% dry)	CO2 (% dry)	GAS VELOCITY (ft/s)	%I
1	07:53	0.0	366.16	0.040	0.20	1326	49	48	13.7	5.2	20.5	96.2
	07:58	5.0	367.34	0.040	0.20	1414	49	49	9.3	8.7	21.0	101.0
	08:03	10.0	368.55	0.040	0.20	1462	50	49	8.1	10.1	21.3	103.0
	08:08	15.0	369.77	0.020	0.10	1465	51	49	9.2	9.4	15.1	105.0
2	08:13	20.0	370.65	0.020	0.10	1467	52	51	9.5	8.9	15.1	102.4
	08:18	25.0	371.51	0.100	0.50	1457	53	51	10.1	8.5	33.6	97.7
	08:23	30.0	373.35	0.100	0.50	1463	55	52	10.2	8.4	33.7	103.4
	08:28	35.0	375.30	0.100	0.49	1465	56	52	10.6	8.1	33.7	103.9
3	08:33	40.0	377.26	0.080	0.45	1408	57	53	12.1	6.9	29.7	106.6
	08:38	45.0	379.09	0.050	0.25	1366	58	54	12.5	6.6	23.2	104.7
	08:43	50.0	380.53	0.050	0.24	1353	58	54	12.4	6.6	23.1	97.8
	08:48	55.0	381.88	0.050	0.24	1363	58	55	13.1	6.3	23.2	101.6
4	08:53	60.0	383.28									
Traverse 1			17.12	0.058	0.29	1417	54	51	10.9	7.8	24.4	102.0

PROJECT NUMBER: CA0053880.5555
TEST NUMBER: HG-3
DATE: 13-Sep-25

COMPANY: Baffinland
LOCATION: Mary River, Baffin Island, NU
SOURCE: Mary River Eco Waste Incinerator

POINT NO.	CLOCK TIME	SAMPLE TIME (min)	GAS VOLUME (ft3)	dP (in H2O)	dH (in H2O)	STACK TEMP (deg F)	GAS METER TEMP IN (deg F)	GAS METER TEMP OUT (deg F)	O2 (% dry)	CO2 (% dry)	GAS VELOCITY (ft/s)	%I
1	09:04	0.0	383.28	0.030	0.15	1250	57	56	13.7	5.6	17.4	102.5
	09:09	5.0	384.41	0.030	0.15	1292	58	56	14.1	5.3	17.6	103.7
	09:14	10.0	385.54	0.030	0.15	1291	58	57	14.2	5.3	17.6	103.5
	09:19	15.0	386.67	0.030	0.15	1304	58	57	14.1	5.3	17.7	101.2
2	09:24	20.0	387.77	0.030	0.15	1318	59	57	14.1	5.3	17.7	100.5
	09:29	25.0	388.86	0.030	0.15	1311	60	58	14.2	5.3	17.7	98.3
	09:34	30.0	389.93	0.070	0.36	1423	60	58	13.1	5.9	27.9	101.1
	09:39	35.0	391.56	0.070	0.36	1423	60	58	12.9	6.3	27.9	107.4
3	09:44	40.0	393.29	0.040	0.20	1351	61	58	14.0	5.5	20.7	101.3
	09:49	45.0	394.55	0.040	0.20	1327	62	59	14.6	4.9	20.5	98.8
	09:54	50.0	395.79	0.030	0.15	1329	62	59	14.8	4.8	17.8	105.0
	09:59	55.0	396.93	0.030	0.15	1309	62	60	15.0	4.7	17.7	97.9
4	10:04	60.0	398.00									
Traverse 2			14.72	0.038	0.19	1327	60	58	14.1	5.4	19.8	101.8
TOTAL TEST			31.84	0.048	0.24	1372	57	55	12.5	6.6	22.1	101.9

Source	Port Milne				Port Milne				Port Milne			
Date	**07-Sep**				**08-Sep**				**09-Sep**			
	Time	**O2 % Dry**	**CO2 % Dry**	**CO ppmd**	**Time**	**O2 % Dry**	**CO2 % Dry**	**CO ppmd**	**Time**	**O2 % Dry**	**CO2 % Dry**	**CO ppmd**
Mercury	11:07	14.0	4.91	5.87	9:15	12.8	5.77	1.59	10:42	12.7	6.48	3.66
	11:12	14.1	5.15	3.93	9:20	12.7	6.38	2.20	10:47	13.6	5.64	4.11
	11:17	14.2	5.05	3.84	9:25	13.3	5.91	2.70	10:52	13.6	5.64	4.38
	11:22	14.4	4.93	3.94	9:30	13.5	5.71	2.89	10:57	13.5	5.64	4.84
	11:27	14.4	4.86	3.93	9:35	13.5	5.64	3.19	11:02	18.3	-5.86	4.97
	11:32	14.5	4.79	4.08	9:40	13.0	5.98	3.34	11:07	13.8	5.40	4.98
	11:37	14.7	4.70	4.10	9:45	13.2	6.00	3.45	11:12	12.6	6.24	5.54
	11:42	13.8	5.31	4.21	9:50	13.3	5.91	3.71	11:17	13.1	5.99	5.81
	11:47	13.9	5.40	4.13	9:55	13.1	5.96	3.87	11:22	12.7	6.24	5.90
	11:52	13.9	5.31	4.09	10:00	13.0	6.12	4.00	11:27	12.9	5.99	6.08
	11:57	14.0	5.26	4.08	10:05	13.1	6.05	4.16	11:32	12.7	6.12	6.17
	12:02	17.2	2.16	3.46	10:10	14.6	4.78	4.17	11:37	12.9	6.12	5.87
	12:12	15.5	3.99	3.56	10:27	13.1	5.86	3.82	11:49	13.6	5.64	5.72
	12:17	14.1	5.24	3.80	10:32	13.0	6.12	3.93	11:54	13.4	5.76	5.75
	12:22	13.7	5.62	3.64	10:37	13.2	6.05	4.15	11:59	13.7	5.64	5.72
	12:27	14.2	5.29	3.60	10:42	13.6	5.69	3.83	12:04	12.9	6.36	5.35
	12:32	14.3	5.19	3.47	10:47	13.1	6.05	3.60	12:09	14.0	5.52	5.43
	12:37	14.2	5.29	3.42	10:52	14.3	5.29	3.54	12:14	14.5	5.17	5.26
	12:42	14.3	5.17	3.35	10:57	14.4	4.96	3.35	12:19	14.6	4.93	5.40
	12:47	14.6	5.05	3.17	11:02	14.5	4.93	3.26	12:24	14.8	4.70	4.96
	12:52	15.2	4.68	3.56	11:07	14.6	4.84	3.17	12:29	14.9	4.70	4.93
	12:57	15.5	4.35	2.75	11:12	14.5	4.89	3.20	12:34	15.1	4.58	4.57
	13:02	15.6	4.28	2.73	11:17	14.6	4.84	3.22	12:39	15.3	4.35	4.63
	13:07	15.7	4.21	2.65	11:22	14.6	4.89	3.18	12:44	15.3	4.35	4.62
Test Average		**14.6**	**4.84**	**3.72**		**13.6**	**5.61**	**3.40**		**13.9**	**5.06**	**5.19**
D/F/DLPCB	13:41	15.2	4.25	3.93	11:56	14.7	4.63	2.90	13:05	14.2	5.17	6.33
	13:46	15.2	4.53	3.93	12:01	14.7	4.82	2.99	13:10	14.3	5.17	5.13
	13:51	15.3	4.46	3.88	12:06	14.7	4.79	3.15	13:15	14.4	5.05	4.98
	13:56	15.2	4.53	3.88	12:11	14.7	4.84	3.31	13:20	14.9	4.82	4.88
	14:01	15.4	4.46	3.95	12:16	14.7	4.86	3.54	13:25	15.1	4.58	4.56
	14:06	14.8	4.79	3.72	12:21	14.7	4.82	3.49	13:30	15.2	4.58	4.70
	14:11	14.6	5.05	3.61	12:26	13.9	5.29	3.36	13:35	15.2	4.58	4.72
	14:16	14.7	5.00	3.48	12:31	13.6	5.62	3.14	13:40	15.2	4.46	4.81
	14:21	14.8	4.91	3.38	12:36	13.9	5.52	3.33	13:45	15.5	4.35	4.86
	14:26	15.8	4.18	3.54	12:41	14.7	4.93	3.30	13:50	15.5	4.35	4.92
	14:31	16.3	3.81	3.63	12:46	15.1	4.56	3.15	13:55	15.5	4.35	4.84
	14:36	16.5	3.57	3.83	12:51	15.3	4.42	3.14	14:00	15.5	4.23	4.94
	14:41	16.6	3.52	3.88	12:56	15.4	4.32	3.22	14:05	14.8	4.70	4.82
	14:46	16.2	3.76	3.73	13:01	15.6	4.21	3.38	14:10	15.3	4.46	4.51
	14:51	16.1	3.88	3.54	13:06	15.7	4.11	3.42	14:15	15.3	4.46	4.57
	14:56	16.1	3.88	3.56	13:11	15.8	3.99	3.50	14:20	15.2	4.46	4.54
	15:01	16.2	3.78	3.43	13:16	15.7	4.02	3.58	14:25	16.2	3.88	4.65
	15:06	16.1	3.76	3.43	13:21	15.1	4.49	3.44	14:30	16.5	3.64	4.43
	15:11	16.7	3.45	3.36	13:26	15.2	4.49	3.42	14:35	16.7	3.52	4.53
	15:16	17.3	2.91	3.72	13:31	15.1	4.58	3.20	14:40	16.7	3.41	4.90
	15:21	17.4	2.70	3.60	13:36	15.0	4.65	2.85	14:45	15.9	3.99	4.47
	15:26	17.0	3.03	3.76	13:41	15.9	4.06	3.02	14:50	16.1	3.99	4.45
	15:31	16.8	3.29	5.03	13:46	16.6	3.48	3.12	14:55	16.1	3.88	4.37
					13:51	16.7	2.89	3.05	15:00	16.1	3.88	4.57
	15:51	16.1	3.81	3.36	14:23	16.3	3.55	2.31	15:19	15.9	3.99	4.20
	15:56	16.1	3.92	3.48	14:28	15.2	4.46	2.65	15:24	15.9	3.99	4.45
	16:01	16.0	3.99	3.46	14:33	15.3	4.46	2.90	15:29	15.9	3.99	4.51
	16:06	16.0	3.97	3.56	14:38	16.0	3.85	3.25	15:34	16.2	3.99	4.42
	16:11	16.0	3.95	3.54	14:43	16.3	3.69	3.45	15:39	16.1	3.99	4.48
	16:16	15.9	3.99	3.74	14:48	16.2	3.64	3.37	15:44	16.2	3.88	4.31
	16:21	16.0	3.99	3.73	14:53	15.9	3.99	3.21	15:49	16.1	3.99	4.68
	16:26	16.0	3.99	3.72	14:58	15.9	3.99	3.36	15:54	16.1	3.88	4.41
	16:31	16.0	3.97	3.84	15:03	15.9	3.99	3.23	15:59	16.1	3.88	4.48
	16:36	16.0	3.99	3.69	15:08	15.9	3.99	3.26	16:04	16.1	3.88	4.72
	16:41	16.0	3.99	3.59	15:13	15.7	4.06	3.95	16:09	16.1	3.88	4.70
	16:46	15.8	4.14	3.72	15:18	15.7	4.11	3.32	16:14	16.1	3.76	4.67
	16:51	15.7	4.18	3.70	15:23	15.7	4.11	3.26	16:19	15.7	4.11	4.81
	16:56	15.2	4.49	3.62	15:28	15.7	4.11	3.27	16:24	15.8	4.11	4.73
	17:01	15.0	4.79	3.48	15:33	15.8	4.11	3.24	16:29	15.2	4.35	4.77
	17:06	15.7	4.28	3.46	15:38	15.7	4.11	3.23	16:34	15.0	4.70	4.60
	17:11	15.6	4.32	3.54	15:43	15.8	4.11	3.32	16:39	15.7	4.23	4.56
	17:16	15.7	4.23	3.68	15:48	15.8	4.06	3.25	16:44	15.6	4.23	4.90
	17:21	15.7	4.23	3.65	15:53	15.9	3.99	3.20	16:49	15.7	4.23	4.79
	17:26	15.7	4.23	3.59	15:58	15.6	4.21	3.58	16:54	15.6	4.23	4.89
	17:31	14.8	4.75	5.22	16:03	15.4	4.35	3.21	16:59	15.6	4.23	4.99
	17:36	14.8	4.86	3.41	16:08	15.5	4.35	3.43	17:04	14.6	5.05	4.86
	17:41	15.5	4.37	3.60	16:13	15.5	4.30	3.44	17:09	15.4	4.70	4.61
	17:45	15.8	4.07	3.72	16:18	15.2	4.44	3.40	17:14	15.7	4.23	4.86
Test Average		**15.8**	**4.09**	**3.70**		**15.4**	**4.30**	**3.25**		**15.6**	**4.24**	**4.71**

Source	Mary River				Mary River				Mary River			
Date	11-Sep				12-Sep				13-Sep			
	Time	O2 % Dry	CO2 % Dry	CO ppmd	Time	O2 % Dry	CO2 % Dry	CO ppmd	Time	O2 % Dry	CO2 % Dry	CO ppmd
Mercury					8:06	12.6	6.07	1.95	7:58	13.7	5.19	4.73
					8:11	9.15	8.76	2.19	8:03	9.27	8.72	2.29
					8:16	8.52	9.52	2.34	8:08	8.11	10.10	2.74
	7:55	9.02	9.43	1.42	8:21	8.98	9.43	2.52	8:13	9.16	9.43	3.24
	8:00	8.62	9.80	2.68	8:26	9.78	8.72	3.19	8:18	9.54	8.93	4.23
	8:05	10.1	8.82	1.00	8:31	10.0	8.50	5.39	8:23	10.1	8.55	4.01
	8:10	10.3	8.57	0.93	8:36	10.2	8.34	7.44	8:28	10.2	8.38	4.71
	8:15	11.1	8.20	1.09	8:41	10.2	8.31	8.35	8:33	10.6	8.07	5.00
	8:20	12.3	7.12	1.62	8:46	11.4	7.53	9.19	8:38	12.1	6.95	5.23
	8:25	12.2	7.09	1.96	8:51	12.2	6.77	9.45	8:43	12.5	6.62	6.49
	8:30	11.7	7.39	2.08	8:56	12.0	6.89	9.35	8:48	12.4	6.65	5.69
	8:35	11.9	7.36	2.17	9:01	12.5	5.55	8.82	8:53	13.1	6.26	5.55
	8:51	13.8	5.87	2.53	9:13	13.4	5.93	7.02	9:08	13.7	5.63	4.88
	8:56	13.8	5.60	2.95	9:18	14.6	4.95	7.78	9:13	14.1	5.35	5.35
	9:01	13.1	6.29	2.64	9:23	14.3	5.11	7.43	9:18	14.2	5.28	5.30
	9:06	13.3	6.18	2.21	9:28	14.1	5.28	7.17	9:23	14.1	5.35	5.39
	9:11	13.0	6.32	2.18	9:33	14.0	5.42	6.85	9:28	14.1	5.35	5.27
	9:16	13.0	6.43	2.13	9:38	13.0	6.05	6.54	9:33	14.2	5.25	5.08
	9:21	13.6	6.10	2.02	9:43	12.8	6.32	6.41	9:38	13.1	5.95	4.96
	9:26	14.7	5.18	2.12	9:48	12.8	6.32	6.33	9:43	12.9	6.32	4.85
	9:31	14.8	5.05	2.06	9:53	13.4	5.98	6.33	9:48	14.0	5.54	5.02
	9:36	14.7	5.05	2.01	9:58	13.8	5.56	5.94	9:53	14.6	4.95	4.92
	9:41	14.9	5.00	2.35	10:03	13.8	5.54	5.72	9:58	14.8	4.83	4.80
	9:46	14.9	4.56	3.20	10:08	13.8	5.47	5.57	10:03	15.0	4.66	4.56
Test Averag		**12.6**	**6.73**	**2.06**		**12.1**	**6.76**	**6.22**		**12.5**	**6.60**	**4.76**
D/F/DLPCB	10:11	16.0	3.53	3.03	10:33	15.2	4.47	5.13	10:25	15.6	3.54	18.42
	10:16	14.8	4.96	2.22	10:38	14.1	5.28	3.46	10:30	14.3	5.09	6.62
	10:21	14.9	4.93	1.47	10:43	14.3	5.23	3.42	10:35	14.5	5.06	4.80
	10:26	14.9	4.93	0.96	10:48	14.3	5.14	3.42	10:40	14.4	5.11	3.94
	10:31	14.9	4.93	0.93	10:53	14.3	5.23	3.25	10:45	14.4	5.11	3.73
	10:36	15.0	4.93	0.83	10:58	14.3	5.16	3.35	10:50	14.4	5.11	3.47
	10:41	14.9	4.93	0.77	11:03	14.3	5.14	3.52	10:55	14.4	5.11	3.60
	10:46	14.9	4.96	0.75	11:08	14.2	5.14	3.81	11:00	13.9	5.37	3.66
	10:51	15.1	4.91	0.65	11:13	13.9	5.42	3.72	11:05	13.9	5.54	3.56
	10:56	14.9	4.93	0.77	11:18	13.7	5.63	3.77	11:10	14.0	5.40	3.72
	11:01	14.1	5.62	0.77	11:23	13.8	5.47	3.84	11:15	14.1	5.35	3.92
	11:06	14.0	5.67	0.74	11:28	13.9	5.47	3.87	11:20	13.8	5.42	3.39
	11:11	13.9	5.72	0.76	11:33	13.7	5.54	3.86	11:25	13.5	5.71	3.39
	11:16	13.9	5.77	0.73	11:38	13.5	5.71	3.90	11:30	13.7	5.66	3.26
	11:21	14.1	5.67	0.55	11:43	13.5	5.71	3.82	11:35	13.6	5.66	3.09
	11:26	14.0	5.67	0.56	11:48	13.5	5.70	3.85	11:40	13.7	5.66	2.89
	11:31	14.1	5.67	0.43	11:53	14.1	5.37	3.79	11:45	14.3	5.16	2.76
	11:36	14.1	5.62	0.36	11:58	14.5	4.97	3.45	11:50	14.4	5.11	2.76
	11:41	14.2	5.55	0.39	12:03	14.4	4.97	3.16	11:55	14.4	5.11	2.64
	11:46	14.9	5.13	0.28	12:08	14.4	4.99	2.92	12:00	14.7	4.92	2.55
	11:51	15.5	4.51	0.16	12:13	14.9	4.75	2.71	12:05	15.2	4.40	2.43
	11:56	15.5	4.44	0.24	12:18	15.1	4.49	2.27	12:10	15.2	4.47	2.34
	12:01	15.6	4.44	0.32	12:23	15.1	4.52	2.28	12:15	15.1	4.52	2.29
	12:06	15.6	4.44	0.42	12:28	15.0	4.59	2.25	12:20	15.2	4.52	2.30
	12:26	15.1	4.56	0.21	12:47	14.4	4.75	1.79	12:39	13.8	5.11	1.95
	12:31	15.0	4.96	0.27	12:52	14.0	5.35	1.91	12:44	13.8	5.52	2.11
	12:36	15.1	4.86	0.46	12:57	14.0	5.35	1.95	12:49	14.0	5.40	1.95
	12:41	15.1	4.81	0.43	13:02	14.1	5.28	1.91	12:54	14.2	5.23	1.84
	12:46	15.1	4.81	0.44	13:07	14.3	5.14	1.82	12:59	14.1	5.28	1.86
	12:51	15.1	4.81	0.57	13:12	14.5	5.02	1.77	13:04	14.2	5.23	1.93
	12:56	15.2	4.81	0.59	13:17	14.4	4.99	1.80	13:09	14.3	5.11	1.96
	13:01	15.2	4.81	0.50	13:22	14.5	4.99	1.70	13:14	14.4	5.09	2.00
	13:06	15.2	4.81	0.59	13:27	14.5	4.99	1.64	13:19	14.6	4.87	1.94
	13:11	15.2	4.81	0.65	13:32	14.5	4.99	1.49	13:24	14.6	4.87	1.98
	13:16	15.2	4.81	0.77	13:37	14.5	4.99	1.60	13:29	14.5	4.87	1.89
	13:21	15.1	4.83	0.64	13:42	14.5	4.90	1.73	13:34	14.6	4.87	1.96
	13:26	14.0	5.62	0.64	13:47	14.4	4.99	1.68	13:39	14.5	4.95	1.98
	13:31	14.5	5.47	0.78	13:52	14.4	4.99	1.86	13:44	14.5	4.92	2.04
	13:36	15.0	4.91	0.69	13:57	14.4	4.99	1.82	13:49	14.6	4.87	2.00
	13:41	14.6	5.05	0.74	14:02	14.5	4.99	1.89	13:54	14.6	4.87	1.95
	13:46	14.4	5.45	0.63	14:07	14.5	4.99	1.71	13:59	14.5	4.87	1.98
	13:51	15.0	4.93	0.70	14:12	14.5	4.99	1.74	14:04	14.6	4.87	2.04
	13:56	14.4	5.18	0.61	14:17	14.5	4.97	1.99	14:09	14.6	4.85	2.01
	14:01	14.4	5.50	0.66	14:22	14.5	4.92	1.94	14:14	14.6	4.80	2.02
	14:06	15.0	5.05	0.78	14:27	14.4	4.99	1.95	14:19	14.6	4.87	2.05
	14:11	14.1	5.47	0.66	14:32	14.5	4.99	1.90	14:24	14.6	4.87	2.00
	14:16	14.6	5.37	0.65	14:37	14.6	4.95	1.94	14:29	14.5	4.87	2.01
	14:21	14.9	4.31	0.76								
Test Averag		**14.8**	**5.04**	**0.697**		**14.3**	**5.10**	**2.65**		**14.4**	**5.05**	**3.00**

Appendix B

Laboratory Certificates of Analyses

CERTIFICATE OF ANALYSIS

Work Order	:	**BU2502618**			
Client	:	**WSP Canada Inc.**	Laboratory	:	ALS Environmental - Burlington
Contact	:	Steve McClure	Account Manager	:	Robert Chin
Address	:	160 Traders Blvd. E, Units 2&3 Mississauga Ontario Canada L4Z 3K7	Address	:	1435 Norjohn Court, Unit 1 Burlington ON Canada L7L 0E6
Telephone	:	----	E-mail	:	Robert.Chin@ALSGlobal.com
Project	:	CA0053880.5555 Baffinland	Telephone	:	+1 905 331 3111
PO	:	P116809CA001	Date Samples Received	:	19-Sep-2025 12:00
C-O-C number	:	----	Date Analysis Commenced	:	25-Sep-2025
Sampler	:	----	Issue Date	:	07-Oct-2025 12:41
Site	:	Baffinland 2025			
Quote number	:	BU2025-WSPI100-0007(E)			
No. of samples received	:	7			
No. of samples analysed	:	7			

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Sabir Ahmed	Analyst	Metals, Burlington, Ontario

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

Unit	*Description*
µg/L	micrograms per litre
µg/sample	micrograms per sample

<: less than.
>: greater than.
Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical Results

Sub-Matrix: Impinger (Matrix: Air)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	Port-Hg-1 ----	Port-Hg-2 ----	Port-Hg-3 ----	Hg-Blank ----	MR-Hg-1 ----
					Client sampling date / time	07-Sep-2025 00:00	08-Sep-2025 00:00	09-Sep-2025 00:00	07-Sep-2025 00:00	11-Sep-2025 00:00
						BU2502618-001	BU2502618-002	BU2502618-003	BU2502618-004	BU2502618-005
						Result	Result	Result	Result	Result
Method 29 Mercury: Fraction 3B (KMnO4/H2SO4)										
Mercury	7439-97-6	E521D/BU	0.075	µg/L		0.928	<0.075	0.090	<0.075	<0.075
Mercury	7439-97-6	EC521D/BU	0.0075	µg/sample		0.557	<0.0450	0.0540	<0.0262	<0.0450
Method 29 Mercury: Fraction 3C (KMnO4/H2SO4)										
Mercury	7439-97-6	E521E/BU	0.75	µg/L		<0.75	1.60	<0.75	<0.75	<0.75
Mercury	7439-97-6	EC521E/BU	0.075	µg/sample		<0.210	0.448	<0.210	<0.075	<0.210

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

Sub-Matrix: Impinger (Matrix: Air)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	MR-Hg-2 ----	MR-Hg-3 ----	----	----	----
					Client sampling date / time	12-Sep-2025 00:00	13-Sep-2025 00:00	----	----	----
						BU2502618-006	BU2502618-007	----	----	----
						Result	Result	----	----	----
Method 29 Mercury: Fraction 3B (KMnO4/H2SO4)										
Mercury	7439-97-6	E521D/BU	0.075	µg/L		0.562	1.31	----	----	----
Mercury	7439-97-6	EC521D/BU	0.0075	µg/sample		0.337	0.786	----	----	----
Method 29 Mercury: Fraction 3C (KMnO4/H2SO4)										
Mercury	7439-97-6	E521E/BU	0.75	µg/L		<0.75	<0.75	----	----	----
Mercury	7439-97-6	EC521E/BU	0.075	µg/sample		<0.210	<0.210	----	----	----

Please refer to the General Comments section for an explanation of any qualifiers detected.

ALS Canada Ltd.

right solutions.
right partner.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **BU2502618**	Page	: 1 of 7
Client	: **WSP Canada Inc.**	Laboratory	: ALS Environmental - Burlington
Contact	: Steve McClure	Account Manager	: Robert Chin
Address	: 160 Traders Blvd. E, Units 2&3 Mississauga ON Canada L4Z 3K7	Address	: 1435 Norjohn Court, Unit 1 Burlington, Ontario Canada L7L 0E6
Telephone	: ----	Telephone	: +1 905 331 3111
Project	: CA0053880.5555 Baffinland	Date Samples Received	: 19-Sep-2025 12:00
PO	: P116809CA001	Issue Date	: 07-Oct-2025 12:41
C-O-C number	: ----		
Sampler	: ----		
Site	: Baffinland 2025		
Quote number	: BU2025-WSPI100-0007(E)		
No. of samples received	: 7		
No. of samples analysed	: 7		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Matrix Spike outliers occur.
- No Matrix Spike Duplicate (MSD) outliers occur - please see following pages for full details.
- Laboratory Control Sample (LCS) outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Air**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Laboratory Control Sample (LCS) Recoveries								
Method 29 Mercury: Fraction 3B (KMnO4/H2SO4)	QC-2240692-002	----	Mercury	7439-97-6	E521D	89.7 % LCS-L	90.0-110%	Recovery less than lower control limit

Result Qualifiers

Qualifier	Description
LCS-L	*Lab Control Sample recovery was below ALS DQO. Reference Material and/or Matrix Spike results were acceptable. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.*

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Air**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Method 29 Mercury: Fraction 3B (KMnO4/H2SO4) : Method 29 Mercury: Fraction 3B by CVAAS										
M29 : 4% KMNO4 + 10% H2SO4 (Impingers) MR-Hg-3	E521D	13-Sep-2025	25-Sep-2025	28 days	13 days	✓	01-Oct-2025	28 days	13 days	✓
Method 29 Mercury: Fraction 3B (KMnO4/H2SO4) : Method 29 Mercury: Fraction 3B by CVAAS										
M29 : 4% KMNO4 + 10% H2SO4 (Impingers) MR-Hg-2	E521D	12-Sep-2025	25-Sep-2025	28 days	14 days	✓	01-Oct-2025	28 days	14 days	✓
Method 29 Mercury: Fraction 3B (KMnO4/H2SO4) : Method 29 Mercury: Fraction 3B by CVAAS										
M29 : 4% KMNO4 + 10% H2SO4 (Impingers) MR-Hg-1	E521D	11-Sep-2025	25-Sep-2025	28 days	15 days	✓	01-Oct-2025	28 days	15 days	✓
Method 29 Mercury: Fraction 3B (KMnO4/H2SO4) : Method 29 Mercury: Fraction 3B by CVAAS										
M29 : 4% KMNO4 + 10% H2SO4 (Impingers) Port-Hg-3	E521D	09-Sep-2025	25-Sep-2025	28 days	17 days	✓	01-Oct-2025	28 days	17 days	✓
Method 29 Mercury: Fraction 3B (KMnO4/H2SO4) : Method 29 Mercury: Fraction 3B by CVAAS										
M29 : 4% KMNO4 + 10% H2SO4 (Impingers) Port-Hg-2	E521D	08-Sep-2025	25-Sep-2025	28 days	18 days	✓	01-Oct-2025	28 days	18 days	✓
Method 29 Mercury: Fraction 3B (KMnO4/H2SO4) : Method 29 Mercury: Fraction 3B by CVAAS										
M29 : 4% KMNO4 + 10% H2SO4 (Impingers) Hg-Blank	E521D	07-Sep-2025	25-Sep-2025	28 days	19 days	✓	01-Oct-2025	28 days	19 days	✓
Method 29 Mercury: Fraction 3B (KMnO4/H2SO4) : Method 29 Mercury: Fraction 3B by CVAAS										
M29 : 4% KMNO4 + 10% H2SO4 (Impingers) Port-Hg-1	E521D	07-Sep-2025	25-Sep-2025	28 days	19 days	✓	01-Oct-2025	28 days	19 days	✓

Matrix: **Air**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Method 29 Mercury: Fraction 3C (KMnO4/H2SO4) : Method 29 Mercury: Fraction 3C by CVAAS										
M29 : 8N HCl (Impinger Rinse) MR-Hg-3	E521E	13-Sep-2025	25-Sep-2025	28 days	13 days	✓	01-Oct-2025	28 days	13 days	✓
Method 29 Mercury: Fraction 3C (KMnO4/H2SO4) : Method 29 Mercury: Fraction 3C by CVAAS										
M29 : 8N HCl (Impinger Rinse) MR-Hg-2	E521E	12-Sep-2025	25-Sep-2025	28 days	14 days	✓	01-Oct-2025	28 days	14 days	✓
Method 29 Mercury: Fraction 3C (KMnO4/H2SO4) : Method 29 Mercury: Fraction 3C by CVAAS										
M29 : 8N HCl (Impinger Rinse) MR-Hg-1	E521E	11-Sep-2025	25-Sep-2025	28 days	15 days	✓	01-Oct-2025	28 days	15 days	✓
Method 29 Mercury: Fraction 3C (KMnO4/H2SO4) : Method 29 Mercury: Fraction 3C by CVAAS										
M29 : 8N HCl (Impinger Rinse) Port-Hg-3	E521E	09-Sep-2025	25-Sep-2025	28 days	17 days	✓	01-Oct-2025	28 days	17 days	✓
Method 29 Mercury: Fraction 3C (KMnO4/H2SO4) : Method 29 Mercury: Fraction 3C by CVAAS										
M29 : 8N HCl (Impinger Rinse) Port-Hg-2	E521E	08-Sep-2025	25-Sep-2025	28 days	18 days	✓	01-Oct-2025	28 days	18 days	✓
Method 29 Mercury: Fraction 3C (KMnO4/H2SO4) : Method 29 Mercury: Fraction 3C by CVAAS										
M29 : 8N HCl (Impinger Rinse) Hg-Blank	E521E	07-Sep-2025	25-Sep-2025	28 days	19 days	✓	01-Oct-2025	28 days	19 days	✓
Method 29 Mercury: Fraction 3C (KMnO4/H2SO4) : Method 29 Mercury: Fraction 3C by CVAAS										
M29 : 8N HCl (Impinger Rinse) Port-Hg-1	E521E	07-Sep-2025	25-Sep-2025	28 days	19 days	✓	01-Oct-2025	28 days	19 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Air**

Evaluation: × = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
Method 29 Mercury: Fraction 3B by CVAAS	E521D	2240692	1	19	5.2	5.0	✓
Method 29 Mercury: Fraction 3C by CVAAS	E521E	2240690	1	19	5.2	5.0	✓
Laboratory Control Samples (LCS)							
Method 29 Mercury: Fraction 3B by CVAAS	E521D	2240692	1	19	5.2	5.0	✓
Method 29 Mercury: Fraction 3C by CVAAS	E521E	2240690	1	19	5.2	5.0	✓
Method Blanks (MB)							
Method 29 Mercury: Fraction 3B by CVAAS	E521D	2240692	1	19	5.2	5.0	✓
Method 29 Mercury: Fraction 3C by CVAAS	E521E	2240690	1	19	5.2	5.0	✓
Matrix Spikes (MS)							
Method 29 Mercury: Fraction 3B by CVAAS	E521D	2240692	1	19	5.2	5.0	✓
Method 29 Mercury: Fraction 3C by CVAAS	E521E	2240690	1	19	5.2	5.0	✓
Matrix Spike Duplicates (MSD)							
Method 29 Mercury: Fraction 3B by CVAAS	E521D	2240692	1	19	5.2	5.0	✓
Method 29 Mercury: Fraction 3C by CVAAS	E521E	2240690	1	19	5.2	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Method 29 Mercury: Fraction 3B by CVAAS	E521D ALS Environmental - Burlington	Air	EPA Method 29 (preparation), EPA Method 7470A (analysis)	Samples are filtered, and rinsed, to remove solids. A sub-sample of the filtrate is digested in oxidizing reagents, using an open-vessel hotblock method. Samples are treated with a reductant to facilitate analysis by CVAA.
Method 29 Mercury: Fraction 3C by CVAAS	E521E ALS Environmental - Burlington	Air	EPA Method 29 (preparation), EPA Method 7470A (analytical)	Filter and solids from the filtration of Fraction 3B are placed into a vessel and covered with 8N HCl. This is then re-filtered and a sub-sample of the filtrate is digested in oxidizing reagents, using an open-vessel hotblock method. Samples are treated with a reductant to facilitate analysis by CVAA.
Hg Fraction 3B (Method 29) - CALC	EC521D ALS Environmental - Burlington	Air	unit conversion	Convert ug/L to ug/sample
Hg Fraction 3C (Method 29) - CALC	EC521E ALS Environmental - Burlington	Air	unit conversion	Convert ug/L to ug/sample

QUALITY CONTROL REPORT

Work Order	: **BU2502618**	Page	: 1 of 4
Client	: WSP Canada Inc.	Laboratory	: ALS Environmental - Burlington
Contact	: Steve McClure	Account Manager	: Robert Chin
Address	: 160 Traders Blvd. E, Units 2&3 Mississauga ON Canada L4Z 3K7	Address	: 1435 Norjohn Court, Unit 1 Burlington, Ontario Canada L7L 0E6
Telephone	: ----	Telephone	: +1 905 331 3111
Project	: CA0053880.5555 Baffinland	Date Samples Received	: 19-Sep-2025 12:00
PO	: P116809CA001	Date Analysis Commenced	: 25-Sep-2025
C-O-C number	: ----	Issue Date	: 07-Oct-2025 12:42
Sampler	: ----		
Site	: Baffinland 2025		
Quote number	: BU2025-WSPI100-0007(E)		
No. of samples received	: 7		
No. of samples analysed	: 7		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Matrix Spike Duplicate (MSD) Report; Relative Percent Difference (RPD)
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Sabir Ahmed	Analyst	Burlington Metals, Burlington, Ontario

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Air**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Method 29 Mercury: Fraction 3B (KMnO4/H2SO4) (QC Lot: 2240692)											
BU2502618-001	Port-Hg-1	Mercury	7439-97-6	E521D	0.075	µg/L	0.928	0.930	0.161%	20%	----
Method 29 Mercury: Fraction 3C (KMnO4/H2SO4) (QC Lot: 2240690)											
BU2502618-001	Port-Hg-1	Mercury	7439-97-6	E521E	0.75	µg/L	<0.75	<0.75	0	Diff <2x LOR	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Air**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Method 29 Mercury: Fraction 3B (KMnO4/H2SO4) (QCLot: 2240692)						
Mercury	7439-97-6	E521D	0.075	µg/L	<0.075	----
Method 29 Mercury: Fraction 3C (KMnO4/H2SO4) (QCLot: 2240690)						
Mercury	7439-97-6	E521E	0.75	µg/L	<0.75	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Air**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Method 29 Mercury: Fraction 3B (KMnO4/H2SO4) (QCLot: 2240692)									
Mercury	7439-97-6	E521D	0.075	µg/L	1 µg/L	# 89.7	90.0	110	LCS-L
Method 29 Mercury: Fraction 3C (KMnO4/H2SO4) (QCLot: 2240690)									
Mercury	7439-97-6	E521E	0.75	µg/L	10 µg/L	95.6	80.0	120	----

Qualifiers

Qualifier	Description
LCS-L	*Lab Control Sample recovery was below ALS DQO. Reference Material and/or Matrix Spike results were acceptable. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.*

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Air**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Method 29 Mercury: Fraction 3B (KMnO4/H2SO4) (QCLot: 2240692)										
BU2502618-001	Port-Hg-1	Mercury	7439-97-6	E521D	0.886 µg/L	1 µg/L	88.6	80.0	120	----
Method 29 Mercury: Fraction 3C (KMnO4/H2SO4) (QCLot: 2240690)										
BU2502618-001	Port-Hg-1	Mercury	7439-97-6	E521E	9.70 µg/L	10 µg/L	97.0	80.0	120	----

Matrix Spike Duplicate (MSD) Report

A Matrix Spike Duplicate (MSD) is a duplicate of a Matrix Spike (MS), which has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spike Duplicates provide information regarding method precision. ALS DQOs for Matrix Spike Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD).

Sub-Matrix: **Air**

					Matrix Spike Duplicate (MSD) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*MSD Result*	*RPD(%) or Difference*	*MSD Limits*	*Qualifier*
Method 29 Mercury: Fraction 3B (KMnO4/H2SO4) (QC Lot: 2240692)											
QC-224069-005		Mercury	7439-97-6	E521D	0.075	µg/L	1.82	1.84	3.33%	20%	----
Method 29 Mercury: Fraction 3C (KMnO4/H2SO4) (QC Lot: 2240690)											
QC-224069-005		Mercury	7439-97-6	E521E	0.75	µg/L	10.2	10.1	0.517%	20%	----

WSP Canada Inc..
160 Traders Blvd. E., Units 2&3, Mississauga, Ontario
L4Z 3K7, (905) 568-2929

Request for Analysis: WSP Canada

Project #	Contact:
CA0053880.5555 Baffinland	Steve Mcclure 416-571-7076

Project Name: Baffinland Incinerator Tests

Comments:

This work order is governed by the terms and conditions of ALS/WSP Agreement No. #Sud-039. No other terms and conditions apply. Pricing is per standard agreement.

Lab Use Only	Sample Number	Sample Identification	Date	Type	Amount Collected	Analysis Requested: Mercury					
	Port-Hg-1	Impinger Contents	7-Sep-25	KMnO4/ H2SO4	<950ml	x					
	Port-Hg-1	8N HCL Rinse	7-Sep-25	8N HCL	<250ml	x					
	Port-Hg-2	Impinger Contents	8-Sep-25	KMnO4/ H2SO4	<950ml	x					
	Port-Hg-2	8N HCL Rinse	8-Sep-25	8N HCL	<250ml	x					
	Port-Hg-3	Impinger Contents	9-Sep-25	KMnO4/ H2SO4	<950ml	x					
	Port-Hg-3	8N HCL Rinse	9-Sep-25	8N HCL	<250ml	x					
	Blank-Hg	Impinger Contents	7-Sep-25	KMnO4/ H2SO4	<950ml	x					
	Blank-Hg	8N HCL Rinse	7-Sep-25	8N HCL	<250ml	x					
	MR-Hg-1	Impinger Contents	11-Sep-25	KMnO4/ H2SO4	<950ml	x					
	MR-Hg-1	8N HCL Rinse	11-Sep-25	8N HCL	<250ml	x					
	MR-Hg-2	Impinger Contents	12-Sep-25	KMnO4/ H2SO4	<950ml	x					
	MR-Hg-2	8N HCL Rinse	12-Sep-25	8N HCL	<250ml	x					
	MR-Hg-3	Impinger Contents	13-Sep-25	KMnO4/ H2SO4	<950ml	x					
	MR-Hg-3	8N HCL Rinse	13-Sep-25	8N HCL	<250ml	x					

Authorized Signature: Date: Time:

Received at Lab By: Aaron Burton Date: 19-Sept-2025 Time: 12:00 22.0°C

Environmental Division
Burlington
Work Order Reference
BU2502618

Telephone : +1 905 331 3111

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

Certificate of Analysis

ALS Project Contact:	Robert Chin	**Client Name:**	WSP Canada Inc.
ALS Project ID:	WSPI100	**Client Address:**	160 Traders Blvd. E, Units 2&3
ALS WO#:	BU2502617		Mississauga, ON
Date of Report	15-Oct-25		
Date of Sample Receipt	19-Sep-25	**Client Contact:**	Steve McClure
		Client Project ID:	CA0053880.5555 Baffinland

COMMENTS: **PCDD/F by EPA M23**

Certified by:

Sabrina Jin
Technical Specialist

ALS Life Sciences

Sample Analysis summary Report

Sample Name	Port-Org-1	Port-Org-2	Port-Org-3	Org-Blank	MR-Org-1	MR-Org-2	MR-Org-3
ALS Sample ID	BU2502617-001	BU2502617-002	BU2502617-003	BU2502617-004	BU2502617-005	BU2502617-006	BU2502617-007
Sample Size	1	1	1	1	1	1	1
Sample size units	Sample	Sample	Sample	Sample	Sample	Sample	Sample
Percent Moisture	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Sample Matrix	Impinger	Impinger	Impinger	Impinger	Impinger	Impinger	Impinger
Sampling Date	7-Sep-25	8-Sep-25	9-Sep-25	9-Sep-25	11-Sep-25	12-Sep-25	13-Sep-25
Extraction Date	26-Sep-25	26-Sep-25	26-Sep-25	26-Sep-25	26-Sep-25	26-Sep-25	26-Sep-25
Target Analytes	**pg**	**pg**	**pg**	**pg**	**pg**	**pg**	**pg**
2,3,7,8-TCDD	<1.1	<2.5	2.22	<1.2	<2.4	2.78	<3.5
1,2,3,7,8-PeCDD	<1.9	13.3	11.0	<1.2	12.3	11.4	21.8
1,2,3,4,7,8-HxCDD	<1.9	21.7	13.6	<1.1	<7.0	<11	25.3
1,2,3,6,7,8-HxCDD	6.24	46.1	29.4	<1.0	29.2	33.6	52.3
1,2,3,7,8,9-HxCDD	<5.2	31.1	23.9	<1.1	16.6	17.7	37.8
1,2,3,4,6,7,8-HpCDD	40.7	359	244	<1.7	176	267	584
OCDD	45.1	410	313	4.48	205	448	1410
2,3,7,8-TCDF	6.64	11.2	13.8	<1.4	17.4	19.9	37.7
1,2,3,7,8-PeCDF	17.8	23.9	30.8	<0.65	18.0	<23	64.9
2,3,4,7,8-PeCDF	9.46	87.5	97.4	<0.60	50.8	75.6	264
1,2,3,4,7,8-HxCDF	<9.0	75.6	85.3	<0.65	33.0	56.4	164
1,2,3,6,7,8-HxCDF	<9.9	98.8	110	<0.62	49.5	69.1	231
2,3,4,6,7,8-HxCDF	10.6	157	203	<0.63	149	153	690
1,2,3,7,8,9-HxCDF	8.22	32.4	41.1	<0.79	44.8	48.8	261
1,2,3,4,6,7,8-HpCDF	32.1	491	499	<2.5	365	482	1850
1,2,3,4,7,8,9-HpCDF	<12	<60	68.8	<1.1	56.8	95.0	536
OCDF	25.7	143	168	<2.0	293	434	3860
Field Spike Standards	**% Rec**	**% Rec**	**% Rec**	**% Rec**	**% Rec**	**% Rec**	**% Rec**
37Cl4-2,3,7,8-TCDD	92	93	93	92	95	91	91
13C12-1,2,3,4,7,8-HxCDD	91	96	88	93	91	99	87
13C12-2,3,4,7,8-PeCDF	103	104	107	107	105	106	104
13C12-1,2,3,4,7,8-HxCDF	93	93	97	99	94	93	92
13C12-1,2,3,4,7,8,9-HpCDF	106	104	109	109	106	110	109
Extraction Standards							
13C12-2,3,7,8-TCDD	87	65	74	67	65	65	52
13C12-1,2,3,7,8-PeCDD	99	79	87	79	77	76	68
13C12-1,2,3,6,7,8-HxCDD	92	78	90	71	79	73	70
13C12-1,2,3,4,6,7,8-HpCDD	81	70	85	65	69	68	62
13C12-OCDD	71	59	91	58	59	59	58
13C12-2,3,7,8-TCDF	86	64	73	65	65	66	48
13C12-1,2,3,7,8-PeCDF	98	76	85	74	74	74	65
13C12-1,2,3,6,7,8-HxCDF	93	84	85	66	78	80	69
13C12-1,2,3,4,6,7,8-HpCDF	75	67	80	60	66	63	58
Cleanup Standard							
13C12-1,2,3,7,8,9-HxCDF	80	75	70	61	68	72	75
Homologue Group Totals	**pg**	**pg**	**pg**	**pg**	**pg**	**pg**	**pg**
Total-TCDD	<1.1	7.76	7.70	<1.2	39.1	19.8	121
Total-PeCDD	21.5	104	127	<1.2	181	157	302
Total-HxCDD	64.6	595	325	<1.1	329	358	689
Total-HpCDD	90.2	871	510	<1.7	460	567	1220
Total-TCDF	43.5	340	416	<1.4	507	722	1810
Total-PeCDF	63.7	707	853	<0.65	590	765	2610
Total-HxCDF	43.0	926	1030	<0.79	601	753	3170
Total-HpCDF	43.9	611	808	<1.1	705	969	4560
Toxic Equivalency - (WHO 2005)							
Lower Bound PCDD/F TEQ (WHO 2005)	7.29	96.3	104	0.00134	68.2	85.4	284
Mid Point PCDD/F TEQ (WHO 2005)	12.5	98.2	104	1.70	71.3	87.2	288
Upper Bound PCDD/F TEQ (WHO 2005)	13.0	99.4	104	3.38	71.3	87.2	288

ALS Life Sciences

Quality Control Summary Report

Sample Name	Method Blank	Laboratory Control Sample
ALS Sample ID	QC-MRG2-2234586001	QC-MRG2-2234586002
Sample Size	1.00	1.00
Sample size units	Sample	n/a
Percent Moisture	n/a	n/a
Sample Matrix	QC	QC
Sampling Date	n/a	n/a
Extraction Date	26-Sep-25	26-Sep-25
Target Analytes	**pg**	**% Rec**
2,3,7,8-TCDD	<0.80	94
1,2,3,7,8-PeCDD	<0.55	106
1,2,3,4,7,8-HxCDD	<0.70	97
1,2,3,6,7,8-HxCDD	<0.65	102
1,2,3,7,8,9-HxCDD	<0.68	116
1,2,3,4,6,7,8-HpCDD	<0.68	97
OCDD	<1.7	89
2,3,7,8-TCDF	<1.1	91
1,2,3,7,8-PeCDF	<0.52	97
2,3,4,7,8-PeCDF	<0.48	94
1,2,3,4,7,8-HxCDF	<0.42	97
1,2,3,6,7,8-HxCDF	<0.40	108
2,3,4,6,7,8-HxCDF	<0.41	96
1,2,3,7,8,9-HxCDF	<0.51	113
1,2,3,4,6,7,8-HpCDF	<0.40	99
1,2,3,4,7,8,9-HpCDF	<0.50	97
OCDF	<1.4	92
Field Spike Standards	**% Rec**	**% Rec**
37Cl4-2,3,7,8-TCDD	NS	NS
13C12-1,2,3,4,7,8-HxCDD	NS	NS
13C12-2,3,4,7,8-PeCDF	NS	NS
13C12-1,2,3,4,7,8-HxCDF	NS	NS
13C12-1,2,3,4,7,8,9-HpCDF	NS	NS
Extraction Standards		
13C12-2,3,7,8-TCDD	70	68
13C12-1,2,3,7,8-PeCDD	92	87
13C12-1,2,3,6,7,8-HxCDD	78	78
13C12-1,2,3,4,6,7,8-HpCDD	81	76
13C12-OCDD	78	72
13C12-2,3,7,8-TCDF	70	64
13C12-1,2,3,7,8-PeCDF	85	82
13C12-1,2,3,6,7,8-HxCDF	78	76
13C12-1,2,3,4,6,7,8-HpCDF	77	75
Cleanup Standard		
13C12-1,2,3,7,8,9-HxCDF	78	73
Homologue Group Totals	**pg**	
Total-TCDD	<0.80	
Total-PeCDD	<0.55	
Total-HxCDD	<0.70	
Total-HpCDD	<0.68	
Total-TCDF	<1.1	
Total-PeCDF	<0.52	
Total-HxCDF	<0.51	
Total-HpCDF	<0.50	
Toxic Equivalency - (WHO 2005)		
Lower Bound PCDD/F TEQ (WHO 2005)	0.00	
Mid Point PCDD/F TEQ (WHO 2005)	1.01	
Upper Bound PCDD/F TEQ (WHO 2005)	2.01	

ALS Life Sciences

Sample Analysis Report

Sample Name	**Port-Org-1**	Sampling Date	13-Sep-25		
ALS Sample ID	BU2502617-001	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA M23	Sample Size	1	Sample	*T.Patterson*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Impinger	Split Ratio	2		14-Oct-2026

Run Information	**Run 1**
Filename	10-251009A16
Run Date	09-Oct-25 13:46
Final Volume	20 uL
Dilution Factor	1
Analysis Units	pg
Instrument - Column	HRMS10 ZBDX1186680

Target Analytes	**TEF (WHO 2005**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
2,3,7,8-TCDD	1	NotFnd	<1.1	1.1	U		20
1,2,3,7,8-PeCDD	1	31.46	<1.9	1.3	M,J,R	1.9	20
1,2,3,4,7,8-HxCDD	0.1	33.65	<1.9	1.6	M,J,R	1.9	20
1,2,3,6,7,8-HxCDD	0.1	33.74	6.24	1.5	M,J		20
1,2,3,7,8,9-HxCDD	0.1	33.93	<5.2	1.5	J,R	5.2	20
1,2,3,4,6,7,8-HpCDD	0.01	36.23	40.7	2.4			20
OCDD	0.0003	39.17	45.1	3.1			40
2,3,7,8-TCDF	0.1	27.76	6.64	2.8	M,J		20
1,2,3,7,8-PeCDF	0.03	30.73	17.8	1.1	M,J		20
2,3,4,7,8-PeCDF	0.3	31.35	9.46	1.0	J		20
1,2,3,4,7,8-HxCDF	0.1	33.08	<9.0	1.8	J,R	9.0	20
1,2,3,6,7,8-HxCDF	0.1	33.16	<9.9	1.7	J,R	9.9	20
2,3,4,6,7,8-HxCDF	0.1	33.60	10.6	1.7	J		20
1,2,3,7,8,9-HxCDF	0.1	34.31	8.22	2.2	M,J		20
1,2,3,4,6,7,8-HpCDF	0.01	35.27	32.1	2.1	M		20
1,2,3,4,7,8,9-HpCDF	0.01	36.86	<12	2.7	J,R	12	20
OCDF	0.0003	39.52	25.7	5.2	M,J		40
Field Spike Standards	**pg**		**% Rec**	**Limits**			
37Cl4-2,3,7,8-TCDD	600	28.35	92	70-130			
13C12-1,2,3,4,7,8-HxCDD	6000	33.64	91	70-130			
13C12-2,3,4,7,8-PeCDF	6000	31.33	103	70-130			
13C12-1,2,3,4,7,8-HxCDF	6000	33.07	93	70-130			
13C12-1,2,3,4,7,8,9-HpCDF	6000	36.86	106	70-130			
Extraction Standards							
13C12-2,3,7,8-TCDD	4000	28.32	87	40-130			
13C12-1,2,3,7,8-PeCDD	4000	31.44	99	40-130			
13C12-1,2,3,6,7,8-HxCDD	4000	33.71	92	40-130			
13C12-1,2,3,4,6,7,8-HpCDD	4000	36.22	81	25-130			
13C12-OCDD	8000	39.16	71	25-130			
13C12-2,3,7,8-TCDF	4000	27.73	86	40-130			
13C12-1,2,3,7,8-PeCDF	4000	30.72	98	40-130			
13C12-1,2,3,6,7,8-HxCDF	4000	33.16	93	40-130			
13C12-1,2,3,4,6,7,8-HpCDF	4000	35.27	75	25-130			
Cleanup Standard	**pg**						
13C12-1,2,3,7,8,9-HxCDF	4000	34.29	80	40-130			

Homologue Group Totals	**# peaks**	**Conc. pg**	**EDL pg**			
Total-TCDD	0	<1.1	1.1	U		20
Total-PeCDD	2	21.5	1.3			20
Total-HxCDD	4	64.6	1.6			20
Total-HpCDD	2	90.2	2.4			20
Total-TCDF	6	43.5	2.8			20
Total-PeCDF	7	63.7	1.1			20
Total-HxCDF	5	43.0	2.2			20
Total-HpCDF	2	43.9	2.7			20

Toxic Equivalency - (WHO 2005)	**pg**
Lower Bound PCDD/F TEQ (WHO 2005)	7.29
Mid Point PCDD/F TEQ (WHO 2005)	12.5
Upper Bound PCDD/F TEQ (WHO 2005)	13.0

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor
TEQ	Indicates the Toxic Equivalency
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	indicates that a target analyte was detected below the calibrated range.
R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Sample Analysis Report

Sample Name	**Port-Org-2**	Sampling Date	13-Sep-25		
ALS Sample ID	BU2502617-002	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA M23	Sample Size	1	Sample	*T.Patterson*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Impinger	Split Ratio	2		14-Oct-2026

Run Information	**Run 1**
Filename	10-251009A17
Run Date	09-Oct-25 14:32
Final Volume	20 uL
Dilution Factor	1
Analysis Units	pg
Instrument - Column	HRMS10 ZBDX1186680

Target Analytes	**TEF (WHO 2005**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
2,3,7,8-TCDD	1	NotFnd	<2.5	2.5	U		20
1,2,3,7,8-PeCDD	1	31.45	13.3	1.1	J		20
1,2,3,4,7,8-HxCDD	0.1	33.66	21.7	2.9			20
1,2,3,6,7,8-HxCDD	0.1	33.74	46.1	2.7			20
1,2,3,7,8,9-HxCDD	0.1	33.93	31.1	2.8			20
1,2,3,4,6,7,8-HpCDD	0.01	36.24	359	4.1			20
OCDD	0.0003	39.18	410	5.4			40
2,3,7,8-TCDF	0.1	27.75	11.2	7.2	J		20
1,2,3,7,8-PeCDF	0.03	30.73	23.9	1.7	M		20
2,3,4,7,8-PeCDF	0.3	31.34	87.5	1.5			20
1,2,3,4,7,8-HxCDF	0.1	33.08	75.6	3.2			20
1,2,3,6,7,8-HxCDF	0.1	33.17	98.8	3.0			20
2,3,4,6,7,8-HxCDF	0.1	33.60	157	3.1			20
1,2,3,7,8,9-HxCDF	0.1	34.31	32.4	3.8			20
1,2,3,4,6,7,8-HpCDF	0.01	35.28	491	2.1			20
1,2,3,4,7,8,9-HpCDF	0.01	36.87	<60	2.6	M,R	60	20
OCDF	0.0003	39.53	143	5.0	M		40
Field Spike Standards	**pg**		**% Rec**	**Limits**			
37Cl4-2,3,7,8-TCDD	600	28.35	93	70-130			
13C12-1,2,3,4,7,8-HxCDD	6000	33.65	96	70-130			
13C12-2,3,4,7,8-PeCDF	6000	31.33	104	70-130			
13C12-1,2,3,4,7,8-HxCDF	6000	33.07	93	70-130			
13C12-1,2,3,4,7,8,9-HpCDF	6000	36.86	104	70-130			
Extraction Standards							
13C12-2,3,7,8-TCDD	4000	28.33	65	40-130			
13C12-1,2,3,7,8-PeCDD	4000	31.44	79	40-130			
13C12-1,2,3,6,7,8-HxCDD	4000	33.73	78	40-130			
13C12-1,2,3,4,6,7,8-HpCDD	4000	36.23	70	25-130			
13C12-OCDD	8000	39.17	59	25-130			
13C12-2,3,7,8-TCDF	4000	27.73	64	40-130			
13C12-1,2,3,7,8-PeCDF	4000	30.72	76	40-130			
13C12-1,2,3,6,7,8-HxCDF	4000	33.16	84	40-130			
13C12-1,2,3,4,6,7,8-HpCDF	4000	35.27	67	25-130			
Cleanup Standard	**pg**						
13C12-1,2,3,7,8,9-HxCDF	4000	34.29	75	40-130			

Homologue Group Totals	**# peaks**	**Conc. pg**	**EDL pg**	**LQL**
Total-TCDD	1	7.76	2.5	20
Total-PeCDD	5	104	1.1	20
Total-HxCDD	6	595	2.9	20
Total-HpCDD	2	871	4.1	20
Total-TCDF	14	340	7.2	20
Total-PeCDF	11	707	1.7	20
Total-HxCDF	10	926	3.8	20
Total-HpCDF	2	611	2.6	20

Toxic Equivalency - (WHO 2005)	**pg**
Lower Bound PCDD/F TEQ (WHO 2005)	96.3
Mid Point PCDD/F TEQ (WHO 2005)	98.2
Upper Bound PCDD/F TEQ (WHO 2005)	99.4

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor
TEQ	Indicates the Toxic Equivalency
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	indicates that a target analyte was detected below the calibrated range.
R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Sample Analysis Report

Sample Name	**Port-Org-3**	Sampling Date	13-Sep-25		
ALS Sample ID	BU2502617-003	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA M23	Sample Size	1	Sample	*T.Patterson*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Impinger	Split Ratio	2		14-Oct-2026

Run Information	**Run 1**
Filename	10-251009A18
Run Date	09-Oct-25 15:18
Final Volume	20 uL
Dilution Factor	1
Analysis Units	pg
Instrument - Column	HRMS10 ZBDX1186680

Target Analytes	**TEF (WHO 2005**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
2,3,7,8-TCDD	1	28.35	2.22	1.7	J		20
1,2,3,7,8-PeCDD	1	31.46	11.0	1.1	M,J		20
1,2,3,4,7,8-HxCDD	0.1	33.66	13.6	1.7	J		20
1,2,3,6,7,8-HxCDD	0.1	33.75	29.4	1.6			20
1,2,3,7,8,9-HxCDD	0.1	33.94	23.9	1.7			20
1,2,3,4,6,7,8-HpCDD	0.01	36.24	244	2.6			20
OCDD	0.0003	39.18	313	2.8			40
2,3,7,8-TCDF	0.1	27.76	13.8	2.5	J		20
1,2,3,7,8-PeCDF	0.03	30.74	30.8	1.6			20
2,3,4,7,8-PeCDF	0.3	31.35	97.4	1.5			20
1,2,3,4,7,8-HxCDF	0.1	33.09	85.3	1.5			20
1,2,3,6,7,8-HxCDF	0.1	33.18	110	1.4			20
2,3,4,6,7,8-HxCDF	0.1	33.61	203	1.5			20
1,2,3,7,8,9-HxCDF	0.1	34.32	41.1	1.8			20
1,2,3,4,6,7,8-HpCDF	0.01	35.29	499	2.6			20
1,2,3,4,7,8,9-HpCDF	0.01	36.88	68.8	3.3			20
OCDF	0.0003	39.54	168	2.3			40

Field Spike Standards	**pg**		**% Rec**	**Limits**
37Cl4-2,3,7,8-TCDD	600	28.35	93	70-130
13C12-1,2,3,4,7,8-HxCDD	6000	33.65	88	70-130
13C12-2,3,4,7,8-PeCDF	6000	31.34	107	70-130
13C12-1,2,3,4,7,8-HxCDF	6000	33.08	97	70-130
13C12-1,2,3,4,7,8,9-HpCDF	6000	36.87	109	70-130
Extraction Standards				
13C12-2,3,7,8-TCDD	4000	28.33	74	40-130
13C12-1,2,3,7,8-PeCDD	4000	31.45	87	40-130
13C12-1,2,3,6,7,8-HxCDD	4000	33.74	90	40-130
13C12-1,2,3,4,6,7,8-HpCDD	4000	36.23	85	25-130
13C12-OCDD	8000	39.18	91	25-130
13C12-2,3,7,8-TCDF	4000	27.75	73	40-130
13C12-1,2,3,7,8-PeCDF	4000	30.73	85	40-130
13C12-1,2,3,6,7,8-HxCDF	4000	33.17	85	40-130
13C12-1,2,3,4,6,7,8-HpCDF	4000	35.28	80	25-130
Cleanup Standard	**pg**			
13C12-1,2,3,7,8,9-HxCDF	4000	34.30	70	40-130

Homologue Group Totals	**# peaks**	**Conc. pg**	**EDL pg**	
Total-TCDD	2	7.70	1.7	20
Total-PeCDD	6	127	1.1	20
Total-HxCDD	7	325	1.7	20
Total-HpCDD	2	510	2.6	20
Total-TCDF	13	416	2.5	20
Total-PeCDF	14	853	1.6	20
Total-HxCDF	10	1030	1.8	20
Total-HpCDF	4	808	3.3	20

Toxic Equivalency - (WHO 2005)	**pg**
Lower Bound PCDD/F TEQ (WHO 2005)	104
Mid Point PCDD/F TEQ (WHO 2005)	104
Upper Bound PCDD/F TEQ (WHO 2005)	104

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor
TEQ	Indicates the Toxic Equivalency
M	Indicates that a peak has been manually integrated.
J	indicates that a target analyte was detected below the calibrated range.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Sample Analysis Report

Sample Name	**Org-Blank**	Sampling Date	13-Sep-25		
ALS Sample ID	BU2502617-004	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA M23	Sample Size	1	Sample	*T.Patterson*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Impinger	Split Ratio	2		14-Oct-2026

Run Information	**Run 1**
Filename	10-251009A15
Run Date	09-Oct-25 12:59
Final Volume	20 uL
Dilution Factor	1
Analysis Units	pg
Instrument - Column	HRMS10 ZBDX1186680

Target Analytes	**TEF (WHO 2005**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
2,3,7,8-TCDD	1	NotFnd	<1.2	1.2	U		20
1,2,3,7,8-PeCDD	1	NotFnd	<1.2	1.2	U		20
1,2,3,4,7,8-HxCDD	0.1	NotFnd	<1.1	1.1	U		20
1,2,3,6,7,8-HxCDD	0.1	NotFnd	<1.0	1.0	U		20
1,2,3,7,8,9-HxCDD	0.1	NotFnd	<1.1	1.1	U		20
1,2,3,4,6,7,8-HpCDD	0.01	NotFnd	<1.7	1.7	U		20
OCDD	0.0003	39.18	4.48	2.7	M,J		40
2,3,7,8-TCDF	0.1	NotFnd	<1.4	1.4	U		20
1,2,3,7,8-PeCDF	0.03	NotFnd	<0.65	0.65	U		20
2,3,4,7,8-PeCDF	0.3	NotFnd	<0.60	0.60	U		20
1,2,3,4,7,8-HxCDF	0.1	NotFnd	<0.65	0.65	U		20
1,2,3,6,7,8-HxCDF	0.1	NotFnd	<0.62	0.62	U		20
2,3,4,6,7,8-HxCDF	0.1	NotFnd	<0.63	0.63	U		20
1,2,3,7,8,9-HxCDF	0.1	NotFnd	<0.79	0.79	U		20
1,2,3,4,6,7,8-HpCDF	0.01	35.28	<2.5	0.92	M,J,R	2.5	20
1,2,3,4,7,8,9-HpCDF	0.01	NotFnd	<1.1	1.1	U		20
OCDF	0.0003	NotFnd	<2.0	2.0	U		40

Field Spike Standards	**pg**		**% Rec**	**Limits**
37Cl4-2,3,7,8-TCDD	600	28.35	92	70-130
13C12-1,2,3,4,7,8-HxCDD	6000	33.64	93	70-130
13C12-2,3,4,7,8-PeCDF	6000	31.33	107	70-130
13C12-1,2,3,4,7,8-HxCDF	6000	33.07	99	70-130
13C12-1,2,3,4,7,8,9-HpCDF	6000	36.86	109	70-130
Extraction Standards				
13C12-2,3,7,8-TCDD	4000	28.32	67	40-130
13C12-1,2,3,7,8-PeCDD	4000	31.44	79	40-130
13C12-1,2,3,6,7,8-HxCDD	4000	33.73	71	40-130
13C12-1,2,3,4,6,7,8-HpCDD	4000	36.22	65	25-130
13C12-OCDD	8000	39.14	58	25-130
13C12-2,3,7,8-TCDF	4000	27.73	65	40-130
13C12-1,2,3,7,8-PeCDF	4000	30.72	74	40-130
13C12-1,2,3,6,7,8-HxCDF	4000	33.16	66	40-130
13C12-1,2,3,4,6,7,8-HpCDF	4000	35.27	60	25-130
Cleanup Standard	**pg**			
13C12-1,2,3,7,8,9-HxCDF	4000	34.29	61	40-130

Homologue Group Totals	**# peaks**	**Conc. pg**	**EDL pg**		
Total-TCDD	0	<1.2	1.2	U	20
Total-PeCDD	0	<1.2	1.2	U	20
Total-HxCDD	0	<1.1	1.1	U	20
Total-HpCDD	0	<1.7	1.7	U	20
Total-TCDF	0	<1.4	1.4	U	20
Total-PeCDF	0	<0.65	0.65	U	20
Total-HxCDF	0	<0.79	0.79	U	20
Total-HpCDF	0	<1.1	1.1	U	20

Toxic Equivalency - (WHO 2005)	**pg**
Lower Bound PCDD/F TEQ (WHO 2005)	0.00134
Mid Point PCDD/F TEQ (WHO 2005)	1.70
Upper Bound PCDD/F TEQ (WHO 2005)	3.38

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor
TEQ	Indicates the Toxic Equivalency
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	indicates that a target analyte was detected below the calibrated range.
R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Sample Analysis Report

Sample Name	**MR-Org-1**	Sampling Date	13-Sep-25		
ALS Sample ID	BU2502617-005	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA M23	Sample Size	1	Sample	*T.Patterson*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Impinger	Split Ratio	2		14-Oct-2026

Run Information	**Run 1**
Filename	10-251009A19
Run Date	09-Oct-25 16:04
Final Volume	20 uL
Dilution Factor	1
Analysis Units	pg
Instrument - Column	HRMS10 ZBDX1186680

Target Analytes	**TEF (WHO 2005**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
2,3,7,8-TCDD	1	28.35	<2.4	1.9	M,J,R	2.4	20
1,2,3,7,8-PeCDD	1	31.46	12.3	1.3	M,J		20
1,2,3,4,7,8-HxCDD	0.1	33.66	<7.0	1.6	J,R	7.0	20
1,2,3,6,7,8-HxCDD	0.1	33.74	29.2	1.5			20
1,2,3,7,8,9-HxCDD	0.1	33.93	16.6	1.5	J		20
1,2,3,4,6,7,8-HpCDD	0.01	36.23	176	3.8			20
OCDD	0.0003	39.16	205	3.8			40
2,3,7,8-TCDF	0.1	27.76	17.4	3.2	J		20
1,2,3,7,8-PeCDF	0.03	30.73	18.0	2.8	M,J		20
2,3,4,7,8-PeCDF	0.3	31.34	50.8	2.6			20
1,2,3,4,7,8-HxCDF	0.1	33.08	33.0	2.4			20
1,2,3,6,7,8-HxCDF	0.1	33.17	49.5	2.3			20
2,3,4,6,7,8-HxCDF	0.1	33.60	149	2.3	M		20
1,2,3,7,8,9-HxCDF	0.1	34.31	44.8	2.9			20
1,2,3,4,6,7,8-HpCDF	0.01	35.28	365	3.0			20
1,2,3,4,7,8,9-HpCDF	0.01	36.86	56.8	3.7			20
OCDF	0.0003	39.52	293	4.8			40
Field Spike Standards	**pg**		**% Rec**	**Limits**			
37Cl4-2,3,7,8-TCDD	600	28.35	95	70-130			
13C12-1,2,3,4,7,8-HxCDD	6000	33.64	91	70-130			
13C12-2,3,4,7,8-PeCDF	6000	31.33	105	70-130			
13C12-1,2,3,4,7,8-HxCDF	6000	33.07	94	70-130			
13C12-1,2,3,4,7,8,9-HpCDF	6000	36.85	106	70-130			
Extraction Standards							
13C12-2,3,7,8-TCDD	4000	28.33	65	40-130			
13C12-1,2,3,7,8-PeCDD	4000	31.44	77	40-130			
13C12-1,2,3,6,7,8-HxCDD	4000	33.73	79	40-130			
13C12-1,2,3,4,6,7,8-HpCDD	4000	36.22	69	25-130			
13C12-OCDD	8000	39.15	59	25-130			
13C12-2,3,7,8-TCDF	4000	27.73	65	40-130			
13C12-1,2,3,7,8-PeCDF	4000	30.72	74	40-130			
13C12-1,2,3,6,7,8-HxCDF	4000	33.16	78	40-130			
13C12-1,2,3,4,6,7,8-HpCDF	4000	35.27	66	25-130			
Cleanup Standard	**pg**						
13C12-1,2,3,7,8,9-HxCDF	4000	34.29	68	40-130			

Homologue Group Totals	**# peaks**	**Conc. pg**	**EDL pg**	**LQL**
Total-TCDD	3	39.1	1.9	20
Total-PeCDD	6	181	1.3	20
Total-HxCDD	5	329	1.6	20
Total-HpCDD	2	460	3.8	20
Total-TCDF	17	507	3.2	20
Total-PeCDF	13	590	2.8	20
Total-HxCDF	10	601	2.9	20
Total-HpCDF	4	705	3.7	20

Toxic Equivalency - (WHO 2005)	**pg**
Lower Bound PCDD/F TEQ (WHO 2005)	68.2
Mid Point PCDD/F TEQ (WHO 2005)	71.3
Upper Bound PCDD/F TEQ (WHO 2005)	71.3

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor
TEQ	Indicates the Toxic Equivalency
M	Indicates that a peak has been manually integrated.
J	indicates that a target analyte was detected below the calibrated range.
R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Sample Analysis Report

Sample Name	**MR-Org-2**	Sampling Date	13-Sep-25		
ALS Sample ID	BU2502617-006	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA M23	Sample Size	1	Sample	*T.Patterson*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Impinger	Split Ratio	2		14-Oct-2026

Run Information	**Run 1**
Filename	10-251009A20
Run Date	09-Oct-25 16:51
Final Volume	20 uL
Dilution Factor	1
Analysis Units	pg
Instrument - Column	HRMS10 ZBDX1186680

Target Analytes	**TEF (WHO 2005**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
2,3,7,8-TCDD	1	28.36	2.78	1.7	M,J		20
1,2,3,7,8-PeCDD	1	31.47	11.4	1.2	M,J		20
1,2,3,4,7,8-HxCDD	0.1	33.66	<11	2.2	M,J,R	11	20
1,2,3,6,7,8-HxCDD	0.1	33.75	33.6	2.1			20
1,2,3,7,8,9-HxCDD	0.1	33.95	17.7	2.2	M,J		20
1,2,3,4,6,7,8-HpCDD	0.01	36.24	267	4.0			20
OCDD	0.0003	39.19	448	5.7			40
2,3,7,8-TCDF	0.1	27.76	19.9	4.0	J		20
1,2,3,7,8-PeCDF	0.03	30.74	<23	1.4	R	23	20
2,3,4,7,8-PeCDF	0.3	31.36	75.6	1.2			20
1,2,3,4,7,8-HxCDF	0.1	33.10	56.4	2.3	M		20
1,2,3,6,7,8-HxCDF	0.1	33.18	69.1	2.2	M		20
2,3,4,6,7,8-HxCDF	0.1	33.62	153	2.2			20
1,2,3,7,8,9-HxCDF	0.1	34.32	48.8	2.8			20
1,2,3,4,6,7,8-HpCDF	0.01	35.29	482	2.8			20
1,2,3,4,7,8,9-HpCDF	0.01	36.90	95.0	3.5			20
OCDF	0.0003	39.54	434	5.5			40

Field Spike Standards	**pg**		**% Rec**	**Limits**
37Cl4-2,3,7,8-TCDD	600	28.36	91	70-130
13C12-1,2,3,4,7,8-HxCDD	6000	33.66	99	70-130
13C12-2,3,4,7,8-PeCDF	6000	31.35	106	70-130
13C12-1,2,3,4,7,8-HxCDF	6000	33.09	93	70-130
13C12-1,2,3,4,7,8,9-HpCDF	6000	36.87	110	70-130
Extraction Standards				
13C12-2,3,7,8-TCDD	4000	28.35	65	40-130
13C12-1,2,3,7,8-PeCDD	4000	31.46	76	40-130
13C12-1,2,3,6,7,8-HxCDD	4000	33.74	73	40-130
13C12-1,2,3,4,6,7,8-HpCDD	4000	36.23	68	25-130
13C12-OCDD	8000	39.18	59	25-130
13C12-2,3,7,8-TCDF	4000	27.75	66	40-130
13C12-1,2,3,7,8-PeCDF	4000	30.73	74	40-130
13C12-1,2,3,6,7,8-HxCDF	4000	33.17	80	40-130
13C12-1,2,3,4,6,7,8-HpCDF	4000	35.28	63	25-130
Cleanup Standard	**pg**			
13C12-1,2,3,7,8,9-HxCDF	4000	34.30	72	40-130

Homologue Group Totals	**# peaks**	**Conc. pg**	**EDL pg**		**LQL**
Total-TCDD	3	19.8	1.7		20
Total-PeCDD	6	157	1.2		20
Total-HxCDD	5	358	2.2		20
Total-HpCDD	2	567	4.0		20
Total-TCDF	18	722	4.0		20
Total-PeCDF	12	765	1.4		20
Total-HxCDF	9	753	2.8		20
Total-HpCDF	4	969	3.5		20

Toxic Equivalency - (WHO 2005)	**pg**
Lower Bound PCDD/F TEQ (WHO 2005)	85.4
Mid Point PCDD/F TEQ (WHO 2005)	87.2
Upper Bound PCDD/F TEQ (WHO 2005)	87.2

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor
TEQ	Indicates the Toxic Equivalency
M	Indicates that a peak has been manually integrated.
J	indicates that a target analyte was detected below the calibrated range.
R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Sample Analysis Report

Sample Name	**MR-Org-3**	Sampling Date	13-Sep-25		
ALS Sample ID	BU2502617-007	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA M23	Sample Size	1	Sample	*T.Patterson*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Impinger	Split Ratio	2		14-Oct-2026

Run Information	**Run 1**
Filename	10-251009A21
Run Date	09-Oct-25 17:37
Final Volume	20 uL
Dilution Factor	1
Analysis Units	pg
Instrument - Column	HRMS10 ZBDX1186680

Target Analytes	**TEF (WHO 2005**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
2,3,7,8-TCDD	1	28.36	<3.5	1.6	M,J,R	3.5	20
1,2,3,7,8-PeCDD	1	31.46	21.8	1.1			20
1,2,3,4,7,8-HxCDD	0.1	33.66	25.3	2.2			20
1,2,3,6,7,8-HxCDD	0.1	33.75	52.3	2.0			20
1,2,3,7,8,9-HxCDD	0.1	33.94	37.8	2.1			20
1,2,3,4,6,7,8-HpCDD	0.01	36.24	584	5.0			20
OCDD	0.0003	39.19	1410	5.8			40
2,3,7,8-TCDF	0.1	27.76	37.7	4.3			20
1,2,3,7,8-PeCDF	0.03	30.73	64.9	2.3			20
2,3,4,7,8-PeCDF	0.3	31.35	264	2.1			20
1,2,3,4,7,8-HxCDF	0.1	33.09	164	4.9			20
1,2,3,6,7,8-HxCDF	0.1	33.18	231	4.6			20
2,3,4,6,7,8-HxCDF	0.1	33.61	690	4.7			20
1,2,3,7,8,9-HxCDF	0.1	34.32	261	5.9			20
1,2,3,4,6,7,8-HpCDF	0.01	35.29	1850	7.6			20
1,2,3,4,7,8,9-HpCDF	0.01	36.88	536	9.5			20
OCDF	0.0003	39.55	3860	5.0			40
Field Spike Standards	**pg**		**% Rec**	**Limits**			
37Cl4-2,3,7,8-TCDD	600	28.35	91	70-130			
13C12-1,2,3,4,7,8-HxCDD	6000	33.65	87	70-130			
13C12-2,3,4,7,8-PeCDF	6000	31.34	104	70-130			
13C12-1,2,3,4,7,8-HxCDF	6000	33.08	92	70-130			
13C12-1,2,3,4,7,8,9-HpCDF	6000	36.87	109	70-130			
Extraction Standards							
13C12-2,3,7,8-TCDD	4000	28.33	52	40-130			
13C12-1,2,3,7,8-PeCDD	4000	31.45	68	40-130			
13C12-1,2,3,6,7,8-HxCDD	4000	33.74	70	40-130			
13C12-1,2,3,4,6,7,8-HpCDD	4000	36.24	62	25-130			
13C12-OCDD	8000	39.18	58	25-130			
13C12-2,3,7,8-TCDF	4000	27.75	48	40-130			
13C12-1,2,3,7,8-PeCDF	4000	30.72	65	40-130			
13C12-1,2,3,6,7,8-HxCDF	4000	33.17	69	40-130			
13C12-1,2,3,4,6,7,8-HpCDF	4000	35.28	58	25-130			
Cleanup Standard	**pg**						
13C12-1,2,3,7,8,9-HxCDF	4000	34.30	75	40-130			

Homologue Group Totals	**# peaks**	**Conc. pg**	**EDL pg**	**LQL**
Total-TCDD	6	121	1.6	20
Total-PeCDD	7	302	1.1	20
Total-HxCDD	8	689	2.2	20
Total-HpCDD	2	1220	5.0	20
Total-TCDF	22	1810	4.3	20
Total-PeCDF	15	2610	2.3	20
Total-HxCDF	13	3170	5.9	20
Total-HpCDF	4	4560	9.5	20

Toxic Equivalency - (WHO 2005)	**pg**
Lower Bound PCDD/F TEQ (WHO 2005)	284
Mid Point PCDD/F TEQ (WHO 2005)	288
Upper Bound PCDD/F TEQ (WHO 2005)	288

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor
TEQ	Indicates the Toxic Equivalency
M	Indicates that a peak has been manually integrated.
J	indicates that a target analyte was detected below the calibrated range.
R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Laboratory Method Blank Analysis Report

Sample Name	**Method Blank**	Sampling Date	n/a		
ALS Sample ID	QC-MRG2-2234586001	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA M23	Sample Size	1	Sample	*T.Patterson*
Analysis Type	Blank	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	2		14-Oct-2026

Run Information	**Run 1**
Filename	10-251009A14
Run Date	09-Oct-25 12:13
Final Volume	20 uL
Dilution Factor	1
Analysis Units	pg
Instrument - Column	HRMS10 ZBDX1186680

Target Analytes	**TEF (WHO 2005**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
2,3,7,8-TCDD	1	NotFnd	<0.80	0.80	U		20
1,2,3,7,8-PeCDD	1	NotFnd	<0.55	0.55	U		20
1,2,3,4,7,8-HxCDD	0.1	NotFnd	<0.70	0.70	U		20
1,2,3,6,7,8-HxCDD	0.1	NotFnd	<0.65	0.65	U		20
1,2,3,7,8,9-HxCDD	0.1	NotFnd	<0.68	0.68	U		20
1,2,3,4,6,7,8-HpCDD	0.01	NotFnd	<0.68	0.68	U		20
OCDD	0.0003	NotFnd	<1.7	1.7	U		40
2,3,7,8-TCDF	0.1	NotFnd	<1.1	1.1	U		20
1,2,3,7,8-PeCDF	0.03	NotFnd	<0.52	0.52	U		20
2,3,4,7,8-PeCDF	0.3	NotFnd	<0.48	0.48	U		20
1,2,3,4,7,8-HxCDF	0.1	NotFnd	<0.42	0.42	U		20
1,2,3,6,7,8-HxCDF	0.1	NotFnd	<0.40	0.40	U		20
2,3,4,6,7,8-HxCDF	0.1	NotFnd	<0.41	0.41	U		20
1,2,3,7,8,9-HxCDF	0.1	NotFnd	<0.51	0.51	U		20
1,2,3,4,6,7,8-HpCDF	0.01	35.29	<0.40	0.40	M,U	0.38	20
1,2,3,4,7,8,9-HpCDF	0.01	NotFnd	<0.50	0.50	U		20
OCDF	0.0003	NotFnd	<1.4	1.4	U		40
Field Spike Standards			**% Rec**				
37Cl4-2,3,7,8-TCDD			NS				
13C12-1,2,3,4,7,8-HxCDD			NS				
13C12-2,3,4,7,8-PeCDF			NS				
13C12-1,2,3,4,7,8-HxCDF			NS				
13C12-1,2,3,4,7,8,9-HpCDF			NS				
Extraction Standards							
13C12-2,3,7,8-TCDD	4000	28.33	70	40-130			
13C12-1,2,3,7,8-PeCDD	4000	31.45	92	40-130			
13C12-1,2,3,6,7,8-HxCDD	4000	33.73	78	40-130			
13C12-1,2,3,4,6,7,8-HpCDD	4000	36.22	81	25-130			
13C12-OCDD	8000	39.15	78	25-130			
13C12-2,3,7,8-TCDF	4000	27.73	70	40-130			
13C12-1,2,3,7,8-PeCDF	4000	30.72	85	40-130			
13C12-1,2,3,6,7,8-HxCDF	4000	33.16	78	40-130			
13C12-1,2,3,4,6,7,8-HpCDF	4000	35.27	77	25-130			
Cleanup Standard	**pg**						
13C12-1,2,3,7,8,9-HxCDF	4000	34.29	78	40-130			

Homologue Group Totals	**# peaks**	**Conc. pg**	**EDL pg**		**LQL**
Total-TCDD	0	<0.80	0.80	U	20
Total-PeCDD	0	<0.55	0.55	U	20
Total-HxCDD	0	<0.70	0.70	U	20
Total-HpCDD	0	<0.68	0.68	U	20
Total-TCDF	0	<1.1	1.1	U	20
Total-PeCDF	0	<0.52	0.52	U	20
Total-HxCDF	0	<0.51	0.51	U	20
Total-HpCDF	0	<0.50	0.50	U	20

Toxic Equivalency - (WHO 2005)	**pg**
Lower Bound PCDD/F TEQ (WHO 2005)	0.00
Mid Point PCDD/F TEQ (WHO 2005)	1.01
Upper Bound PCDD/F TEQ (WHO 2005)	2.01

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor TEQ Indicates the Toxic Equivalency
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure
NS	Indicates that this standard was not spiked to sample

ALS Life Sciences

Laboratory Control Sample Analysis Report

Sample Name	**Laboratory Control Sample**	Sampling Date	n/a		
ALS Sample ID	QC-MRG2-2234586002	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA M23	Sample Size	1	n/a	*T.Patterson*
Analysis Type	LCS	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	2		14-Oct-2026

Run Information	**Run 1**
Filename	10-251009A09
Run Date	09-Oct-25 09:50
Final Volume	20 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS10 ZBDX1186680

Target Analytes	**pg**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
2,3,7,8-TCDD	400	28.36	94	70-130	
1,2,3,7,8-PeCDD	2000	31.46	106	70-130	
1,2,3,4,7,8-HxCDD	2000	33.66	97	70-130	
1,2,3,6,7,8-HxCDD	2000	33.75	102	70-130	
1,2,3,7,8,9-HxCDD	2000	33.94	116	70-130	
1,2,3,4,6,7,8-HpCDD	2000	36.24	97	70-130	
OCDD	4000	39.17	89	70-130	
2,3,7,8-TCDF	400	27.76	91	70-130	
1,2,3,7,8-PeCDF	2000	30.74	97	70-130	
2,3,4,7,8-PeCDF	2000	31.35	94	70-130	
1,2,3,4,7,8-HxCDF	2000	33.09	97	70-130	
1,2,3,6,7,8-HxCDF	2000	33.18	108	70-130	
2,3,4,6,7,8-HxCDF	2000	33.61	96	70-130	
1,2,3,7,8,9-HxCDF	2000	34.31	113	70-130	
1,2,3,4,6,7,8-HpCDF	2000	35.29	99	70-130	
1,2,3,4,7,8,9-HpCDF	2000	36.88	97	70-130	
OCDF	4000	39.53	92	70-130	
Field Spike Standards			**% Rec**		
37Cl4-2,3,7,8-TCDD			NS		
13C12-1,2,3,4,7,8-HxCDD			NS		
13C12-2,3,4,7,8-PeCDF			NS		
13C12-1,2,3,4,7,8-HxCDF			NS		
13C12-1,2,3,4,7,8,9-HpCDF			NS		
Extraction Standards					
13C12-2,3,7,8-TCDD	4000	28.33	68	40-130	
13C12-1,2,3,7,8-PeCDD	4000	31.45	87	40-130	
13C12-1,2,3,6,7,8-HxCDD	4000	33.74	78	40-130	
13C12-1,2,3,4,6,7,8-HpCDD	4000	36.23	76	25-130	
13C12-OCDD	8000	39.17	72	25-130	
13C12-2,3,7,8-TCDF	4000	27.75	64	40-130	
13C12-1,2,3,7,8-PeCDF	4000	30.73	82	40-130	
13C12-1,2,3,6,7,8-HxCDF	4000	33.17	76	40-130	
13C12-1,2,3,4,6,7,8-HpCDF	4000	35.28	75	25-130	
Cleanup Standard	**pg**				
13C12-1,2,3,7,8,9-HxCDF	4000	34.30	73	40-130	

NS Indicates that this standard was not spiked to sample

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

Certificate of Analysis

ALS Project Contact:	Robert Chin	**Client Name:**	WSP Canada Inc.
ALS Project ID:	WSPI100	**Client Address:**	160 Traders Blvd. E, Units 2&3
ALS WO#:	BU2502617		Mississauga, ON
Date of Report	15-Oct-25		L4Z 3K7
Date of Sample Receipt	19-Sep-25	**Client Contact:**	Steve McClure
		Client Project ID:	CA0053880.5555 Baffinland

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

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

Certified by:

Sabrina Jin
Technical Specialist

ALS Life Sciences

Sample Analysis Summary Report

Sample Name	Port-Org-1	Port-Org-2	Port-Org-3	Org-Blank	MR-Org-1	MR-Org-2	MR-Org-3
ALS Sample ID	BU2502617-001	BU2502617-002	BU2502617-003	BU2502617-004	BU2502617-005	BU2502617-006	BU2502617-007
Sample Size	1	1	1	1	1	1	1
Sample size units	sample	sample	sample	sample	sample	sample	sample
Percent Moisture	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Sample Matrix	Impinger	Impinger	Impinger	Impinger	Impinger	Impinger	Impinger
Sampling Date	7-Sep-25	8-Sep-25	9-Sep-25	9-Sep-25	11-Sep-25	12-Sep-25	13-Sep-25
Extraction Date	26-Sep-25	26-Sep-25	26-Sep-25	26-Sep-25	26-Sep-25	26-Sep-25	26-Sep-25
Target Analytes	**pg**	**pg**	**pg**	**pg**	**pg**	**pg**	**pg**
PCB-081	<8.5	<25	57.0	<7.8	23.3	40.9	<33
PCB-077	22100	4190	2440	135	1600000	863000	234000
PCB-123	10.6	<4.9	<8.3	<4.5	12.3	8.79	13.1
PCB-118	498	141	<77	<7.9	906	643	222
PCB-114	<14	13.2	<19	<4.3	9.81	<15	<10
PCB-105	227	81.5	74.2	<4.2	218	192	120
PCB-126	144	70.6	112	<4.2	7360	5030	1650
PCB-167	19.5	14.0	22.6	<3.3	113	91.3	<46
PCB-156/157	39.5	51.4	68.4	<4.5	296	234	153
PCB-169	<8.1	<22	30.2	<3.2	466	386	172
PCB-189	<8.9	61.3	82.4	<3.7	97.9	76.3	112
Extraction Standards	**% Rec**	**% Rec**	**% Rec**	**% Rec**	**% Rec**	**% Rec**	**% Rec**
13C12-PCB-081	48	61	58	57	54	53	30
13C12-PCB-077	52	62	58	59	60	55	31
13C12-PCB-123	50	60	56	60	55	50	28
13C12-PCB-118	52	61	57	64	51	51	28
13C12-PCB-114	48	60	60	59	54	50	28
13C12-PCB-105	52	59	59	62	53	53	29
13C12-PCB-126	49	64	54	62	55	55	29
13C12-PCB-167	56	75	67	72	64	58	34
13C12-PCB-156/157	56	66	70	75	62	63	35
13C12-PCB-169	58	76	76	85	68	71	38
13C12-PCB-189	43	59	61	69	55	57	32
Field Spike Standards							
13C12-PCB-031	103	100	102	101	103	103	100
13C12-PCB-095	97	92	98	95	97	102	111
13C12-PCB-153	97	99	94	92	92	94	91
Cleanup Standards							
13C12-PCB-028	49	50	39	48	46	48	32
13C12-PCB-111	47	60	50	56	54	52	35
13C12-PCB-178	45	63	51	57	56	54	35
Toxic Equivalency - (WHO 2005)							
Lower Bound PCB TEQ	16.6	7.49	12.4	0.0135	910	601	194
Mid Point PCB TEQ	16.8	8.16	12.4	0.273	910	601	194
Upper Bound PCB TEQ	16.9	8.16	12.4	0.533	910	601	194

ALS Life Sciences

Quality Control Summary Report

Sample Name	Method Blank
ALS Sample ID	QC-MRG2-2234586-001
Sample Size	1
Sample size units	sample
Percent Moisture	n/a
Sample Matrix	QC
Sampling Date	n/a
Extraction Date	26-Sep-25

Target Analytes	pg
PCB-081	<7.7
PCB-077	38.5
PCB-123	<6.9
PCB-118	<6.1
PCB-114	<6.3
PCB-105	<6.4
PCB-126	<6.7
PCB-167	<5.6
PCB-156/157	<7.8
PCB-169	<5.3
PCB-189	<6.6
Extraction Standards	**% Rec**
13C12-PCB-081	41
13C12-PCB-077	44
13C12-PCB-123	41
13C12-PCB-118	43
13C12-PCB-114	42
13C12-PCB-105	42
13C12-PCB-126	42
13C12-PCB-167	46
13C12-PCB-156/157	48
13C12-PCB-169	57
13C12-PCB-189	43
Field Spike Standards	
13C12-PCB-031	NS
13C12-PCB-095	NS
13C12-PCB-153	NS
Cleanup Standards	
13C12-PCB-028	34
13C12-PCB-111	42
13C12-PCB-178	41

Toxic Equivalency - (WHO 2005)	
Lower Bound PCB TEQ	0.00385
Mid Point PCB TEQ	0.420
Upper Bound PCB TEQ	0.837

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Sample Analysis Summary Report

Sample Name	Laboratory Control Sample
ALS Sample ID	QC-MRG2-2234586-002
Sample Size	1
Sample size units	n/a
Percent Moisture	n/a
Sample Matrix	QC
Sampling Date	n/a
Extraction Date	26-Sep-25
Target Analytes	**% Rec**
PCB-081	100
PCB-077	102
PCB-123	94
PCB-118	98
PCB-114	99
PCB-105	93
PCB-126	95
PCB-167	82
PCB-156/157	81
PCB-169	78
PCB-189	112
Extraction Standards	**% Rec**
13C12-PCB-081	69
13C12-PCB-077	70
13C12-PCB-123	68
13C12-PCB-118	75
13C12-PCB-114	71
13C12-PCB-105	73
13C12-PCB-126	79
13C12-PCB-167	84
13C12-PCB-156/157	84
13C12-PCB-169	96
13C12-PCB-189	73
Field Spike Standards	
13C12-PCB-031	NS
13C12-PCB-095	NS
13C12-PCB-153	NS
Cleanup Standards	
13C12-PCB-028	48
13C12-PCB-111	60
13C12-PCB-178	57

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Sample Analysis Report

Sample Name	**Port-Org-1**	Sampling Date	7-Sep-25		
ALS Sample ID	BU2502617-001	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA 1668C	Sample Size	1	sample	*K.NGUYEN*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Impinger	Split Ratio	4		10-Oct-2025

Run Information	**Run 1**
Filename	6-251007B23
Run Date	08-Oct-25 04:10
Final Volume	25 ul
Dilution Factor	1
Analysis Units	pg
Instrument - Column	HRMS 6 SPBOCTYL-293713-08

Target Analytes	**TEF (WHO 200!**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
PCB-081	0.0003	NotFnd	<8.5	8.5	U		20
PCB-077	0.0001	22.68	22100	8.3			20
PCB-123	0.00003	23.65	10.6	8.1	M,J		20
PCB-118	0.00003	23.85	498	7.3	M		20
PCB-114	0.00003	24.15	<14	7.8	M,J,R	14	20
PCB-105	0.00003	24.50	227	7.6			20
PCB-126	0.1	26.08	144	8.1			20
PCB-167	0.00003	26.99	19.5	7.3	M,J		20
PCB-156/157	0.00003	27.62	39.5	10	M		20
PCB-169	0.03	29.25	<8.1	8.1	M,U	5.9	20
PCB-189	0.00003	NotFnd	<8.9	8.9	U		20
Extraction Standards	**pg**	**Time**	**% Rec**	**Limits**			
13C12-PCB-081	4000	22.36	48	10-145			
13C12-PCB-077	4000	22.67	52	10-145			
13C12-PCB-123	4000	23.67	50	10-145			
13C12-PCB-118	4000	23.83	52	10-145			
13C12-PCB-114	4000	24.14	48	10-145			
13C12-PCB-105	4000	24.48	52	10-145			
13C12-PCB-126	4000	26.07	49	10-145			
13C12-PCB-167	4000	26.98	56	10-145			
13C12-PCB-156/157	8000	27.60	56	10-145			
13C12-PCB-169	4000	29.26	58	10-145	R		
13C12-PCB-189	4000	30.56	43	10-145			
Field Spike Standards							
13C12-PCB-031	6000	16.35	103	70-130			
13C12-PCB-095	6000	19.68	97	70-130			
13C12-PCB-153	6000	24.76	97	70-130			
Cleanup Standards							
13C12-PCB-028	4000	16.52	49	5-145			
13C12-PCB-111	4000	22.60	47	10-145			
13C12-PCB-178	4000	25.66	45	10-145			

Toxic Equivalency - (WHO 2005)

Lower Bound PCB TEQ	16.6
Mid Point PCB TEQ	16.8
Upper Bound PCB TEQ	16.9

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor TEQ Indicates the Toxic Equivalency
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that the analyte was positively identifed. The associated numerical result is an estimate.
R	Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration.
B	Indicates that this target was detected in the blank at greater than 10% of the sample concentration.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

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Sample Analysis Report

Sample Name	**Port-Org-2**	Sampling Date	8-Sep-25		
ALS Sample ID	BU2502617-002	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA 1668C	Sample Size	1	sample	*K.NGUYEN*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Impinger	Split Ratio	4		10-Oct-2025

Run Information	**Run 1**
Filename	6-251007B24
Run Date	08-Oct-25 04:54
Final Volume	25 ul
Dilution Factor	1
Analysis Units	pg
Instrument - Column	HRMS 6 SPBOCTYL-293713-08

Target Analytes	**TEF (WHO 200!**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
PCB-081	0.0003	22.37	<25	5.7	M,R	25	20
PCB-077	0.0001	22.67	4190	5.6			20
PCB-123	0.00003	NotFnd	<4.9	4.9	U		20
PCB-118	0.00003	23.85	141	4.4			20
PCB-114	0.00003	24.14	13.2	4.5	J		20
PCB-105	0.00003	24.49	81.5	4.8	M		20
PCB-126	0.1	26.07	70.6	4.4	M		20
PCB-167	0.00003	27.00	14.0	4.7	M,J		20
PCB-156/157	0.00003	27.63	51.4	7.3			20
PCB-169	0.03	29.28	<22	5.1	M,R	22	20
PCB-189	0.00003	30.57	61.3	5.3			20

Extraction Standards	**pg**	**Time**	**% Rec**	**Limits**
13C12-PCB-081	4000	22.36	61	10-145
13C12-PCB-077	4000	22.66	62	10-145
13C12-PCB-123	4000	23.67	60	10-145
13C12-PCB-118	4000	23.83	61	10-145
13C12-PCB-114	4000	24.14	60	10-145
13C12-PCB-105	4000	24.49	59	10-145
13C12-PCB-126	4000	26.07	64	10-145
13C12-PCB-167	4000	26.98	75	10-145
13C12-PCB-156/157	8000	27.62	66	10-145
13C12-PCB-169	4000	29.27	76	10-145
13C12-PCB-189	4000	30.56	59	10-145
Field Spike Standards				
13C12-PCB-031	6000	16.36	100	70-130
13C12-PCB-095	6000	19.68	92	70-130
13C12-PCB-153	6000	24.76	99	70-130
Cleanup Standards				
13C12-PCB-028	4000	16.52	50	5-145
13C12-PCB-111	4000	22.59	60	10-145
13C12-PCB-178	4000	25.66	63	10-145

Toxic Equivalency - (WHO 2005)

Lower Bound PCB TEQ	7.49
Mid Point PCB TEQ	8.16
Upper Bound PCB TEQ	8.16

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor TEQ Indicates the Toxic Equivalency
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that the analyte was positively identifed. The associated numerical result is an estimate.
R	Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration.
B	Indicates that this target was detected in the blank at greater than 10% of the sample concentration.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

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Sample Analysis Report

Sample Name	**Port-Org-3**	Sampling Date	9-Sep-25		
ALS Sample ID	BU2502617-003	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA 1668C	Sample Size	1	sample	*K.NGUYEN*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Impinger	Split Ratio	4		10-Oct-2025

Run Information	**Run 1**
Filename	6-251007B25
Run Date	08-Oct-25 05:38
Final Volume	25 ul
Dilution Factor	1
Analysis Units	pg
Instrument - Column	HRMS 6 SPBOCTYL-293713-08

Target Analytes	**TEF (WHO 200!**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
PCB-081	0.0003	22.37	57.0	6.6			20
PCB-077	0.0001	22.67	2440	6.6			20
PCB-123	0.00003	NotFnd	<8.3	8.3	U		20
PCB-118	0.00003	23.85	<77	7.2	R	77	20
PCB-114	0.00003	24.15	<19	7.2	J,R	19	20
PCB-105	0.00003	24.49	74.2	7.2			20
PCB-126	0.1	26.07	112	8.2			20
PCB-167	0.00003	27.00	22.6	4.7			20
PCB-156/157	0.00003	27.60	68.4	6.4			20
PCB-169	0.03	29.27	30.2	4.8	M		20
PCB-189	0.00003	30.57	82.4	7.0			20
Extraction Standards	**pg**	**Time**	**% Rec**	**Limits**			
13C12-PCB-081	4000	22.36	58	10-145			
13C12-PCB-077	4000	22.66	58	10-145			
13C12-PCB-123	4000	23.65	56	10-145			
13C12-PCB-118	4000	23.82	57	10-145			
13C12-PCB-114	4000	24.14	60	10-145			
13C12-PCB-105	4000	24.47	59	10-145			
13C12-PCB-126	4000	26.07	54	10-145			
13C12-PCB-167	4000	26.98	67	10-145			
13C12-PCB-156/157	8000	27.62	70	10-145			
13C12-PCB-169	4000	29.26	76	10-145	R		
13C12-PCB-189	4000	30.56	61	10-145			
Field Spike Standards							
13C12-PCB-031	6000	16.35	102	70-130			
13C12-PCB-095	6000	19.68	98	70-130			
13C12-PCB-153	6000	24.76	94	70-130			
Cleanup Standards							
13C12-PCB-028	4000	16.52	39	5-145			
13C12-PCB-111	4000	22.59	50	10-145			
13C12-PCB-178	4000	25.66	51	10-145			

Toxic Equivalency - (WHO 2005)

Lower Bound PCB TEQ	12.4
Mid Point PCB TEQ	12.4
Upper Bound PCB TEQ	12.4

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor TEQ Indicates the Toxic Equivalency
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that the analyte was positively identifed. The associated numerical result is an estimate.
R	Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration.
B	Indicates that this target was detected in the blank at greater than 10% of the sample concentration.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

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Sample Analysis Report

Sample Name	**Org-Blank**	Sampling Date	9-Sep-25		
ALS Sample ID	BU2502617-004	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA 1668C	Sample Size	1	sample	*K.NGUYEN*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Impinger	Split Ratio	4		10-Oct-2025

Run Information	**Run 1**
Filename	6-251007B26
Run Date	08-Oct-25 06:22
Final Volume	25 ul
Dilution Factor	1
Analysis Units	pg
Instrument - Column	HRMS 6 SPBOCTYL-293713-08

Target Analytes	**TEF (WHO 200!**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
PCB-081	0.0003	NotFnd	<7.8	7.8	U		20
PCB-077	0.0001	22.68	135	7.2	B		20
PCB-123	0.00003	NotFnd	<4.5	4.5	U		20
PCB-118	0.00003	23.85	<7.9	3.8	J,R	7.9	20
PCB-114	0.00003	NotFnd	<4.3	4.3	U		20
PCB-105	0.00003	NotFnd	<4.2	4.2	U		20
PCB-126	0.1	NotFnd	<4.2	4.2	U		20
PCB-167	0.00003	NotFnd	<3.3	3.3	U		20
PCB-156/157	0.00003	NotFnd	<4.5	4.5	U		20
PCB-169	0.03	NotFnd	<3.2	3.2	U		20
PCB-189	0.00003	NotFnd	<3.7	3.7	U		20

Extraction Standards	**pg**	**Time**	**% Rec**	**Limits**
13C12-PCB-081	4000	22.37	57	10-145
13C12-PCB-077	4000	22.67	59	10-145
13C12-PCB-123	4000	23.67	60	10-145
13C12-PCB-118	4000	23.83	64	10-145
13C12-PCB-114	4000	24.14	59	10-145
13C12-PCB-105	4000	24.48	62	10-145
13C12-PCB-126	4000	26.07	62	10-145
13C12-PCB-167	4000	26.98	72	10-145
13C12-PCB-156/157	8000	27.60	75	10-145
13C12-PCB-169	4000	29.26	85	10-145
13C12-PCB-189	4000	30.56	69	10-145
Field Spike Standards				
13C12-PCB-031	6000	16.37	101	70-130
13C12-PCB-095	6000	19.69	95	70-130
13C12-PCB-153	6000	24.76	92	70-130
Cleanup Standards				
13C12-PCB-028	4000	16.53	48	5-145
13C12-PCB-111	4000	22.60	56	10-145
13C12-PCB-178	4000	25.66	57	10-145

Toxic Equivalency - (WHO 2005)

Lower Bound PCB TEQ	0.0135
Mid Point PCB TEQ	0.273
Upper Bound PCB TEQ	0.533

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor TEQ Indicates the Toxic Equivalency
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that the analyte was positively identifed. The associated numerical result is an estimate.
R	Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration.
B	Indicates that this target was detected in the blank at greater than 10% of the sample concentration.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Sample Analysis Report

Sample Name	**MR-Org-1**	Sampling Date	11-Sep-25		
ALS Sample ID	BU2502617-005	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA 1668C	Sample Size	1	sample	*K.NGUYEN*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Impinger	Split Ratio	4		10-Oct-2025

Run Information	**Run 1**	**Run 2**
Filename	6-251007B27	6-251008B14
Run Date	08-Oct-25 07:06	09-Oct-25 03:02
Final Volume	25 ul	25 uL
Dilution Factor	1	10
Analysis Units	pg	pg
Instrument - Column	HRMS 6 SPBOCTYL-293713-08	HRMS 6 SPBOCTYL-293713-08

Target Analytes	**TEF (WHO 200!**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
PCB-081	0.0003	22.35	23.3	7.8			20						
PCB-077	0.0001							22.66	1600000	120			200
PCB-123	0.00003	23.64	12.3	6.9	M,J		20						
PCB-118	0.00003	23.82	906	6.7			20						
PCB-114	0.00003	24.14	9.81	6.6	M,J		20						
PCB-105	0.00003	24.48	218	6.6			20						
PCB-126	0.1	26.06	7360	6.5			20						
PCB-167	0.00003	26.98	113	4.6			20						
PCB-156/157	0.00003	27.59	296	6.3			20						
PCB-169	0.03	29.26	466	4.6			20						
PCB-189	0.00003	30.56	97.9	5.2			20						

Extraction Standards	**pg**	**Time**	**% Rec**	**Limits**	**Time**	**% Rec**	**Limits**	
13C12-PCB-081	4000	22.34	54	10-145				
13C12-PCB-077	4000				22.65	60	10-145	R
13C12-PCB-123	4000	23.64	55	10-145				
13C12-PCB-118	4000	23.81	51	10-145				
13C12-PCB-114	4000	24.11	54	10-145				
13C12-PCB-105	4000	24.46	53	10-145				
13C12-PCB-126	4000	26.05	55	10-145				
13C12-PCB-167	4000	26.96	64	10-145				
13C12-PCB-156/157	8000	27.59	62	10-145				
13C12-PCB-169	4000	29.25	68	10-145				
13C12-PCB-189	4000	30.54	55	10-145				
Field Spike Standards								
13C12-PCB-031	6000	16.34	103	70-130				
13C12-PCB-095	6000	19.67	97	70-130				
13C12-PCB-153	6000	24.75	92	70-130				
Cleanup Standards								
13C12-PCB-028	4000	16.51	46	5-145				
13C12-PCB-111	4000	22.58	54	10-145				
13C12-PCB-178	4000	25.64	56	10-145				

Toxic Equivalency - (WHO 2005)

Lower Bound PCB TEQ	910
Mid Point PCB TEQ	910
Upper Bound PCB TEQ	910

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor TEQ Indicates the Toxic Equivalency
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that the analyte was positively identifed. The associated numerical result is an estimate.
R	Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Sample Analysis Report

Sample Name	**MR-Org-2**	Sampling Date	12-Sep-25		
ALS Sample ID	BU2502617-006	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA 1668C	Sample Size	1	sample	*K.NGUYEN*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Impinger	Split Ratio	4		10-Oct-2025

Run Information	**Run 1**	**Run 2**
Filename	6-251007B28	6-251008B15
Run Date	08-Oct-25 07:50	09-Oct-25 03:46
Final Volume	25 ul	25 uL
Dilution Factor	1	10
Analysis Units	pg	pg
Instrument - Column	HRMS 6 SPBOCTYL-293713-08	HRMS 6 SPBOCTYL-293713-08

Target Analytes	**TEF (WHO 200!**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
PCB-081	0.0003	22.35	40.9	8.8	M		20						
PCB-077	0.0001							22.64	863000	91			200
PCB-123	0.00003	23.64	8.79	5.8	M,J		20						
PCB-118	0.00003	23.82	643	5.2			20						
PCB-114	0.00003	24.12	<15	5.6	M,J,R	15	20						
PCB-105	0.00003	24.48	192	5.2			20						
PCB-126	0.1	26.06	5030	5.2			20						
PCB-167	0.00003	26.98	91.3	4.9			20						
PCB-156/157	0.00003	27.59	234	6.1			20						
PCB-169	0.03	29.26	386	4.3			20						
PCB-189	0.00003	30.56	76.3	4.6			20						

Extraction Standards	**pg**	**Time**	**% Rec**	**Limits**	**Time**	**% Rec**	**Limits**
13C12-PCB-081	4000	22.34	53	10-145			
13C12-PCB-077	4000				22.63	55	10-145
13C12-PCB-123	4000	23.64	50	10-145			
13C12-PCB-118	4000	23.81	51	10-145			
13C12-PCB-114	4000	24.11	50	10-145			
13C12-PCB-105	4000	24.46	53	10-145			
13C12-PCB-126	4000	26.05	55	10-145			
13C12-PCB-167	4000	26.95	58	10-145			
13C12-PCB-156/157	8000	27.59	63	10-145			
13C12-PCB-169	4000	29.25	71	10-145			
13C12-PCB-189	4000	30.54	57	10-145			
Field Spike Standards							
13C12-PCB-031	6000	16.34	103	70-130			
13C12-PCB-095	6000	19.67	102	70-130			
13C12-PCB-153	6000	24.75	94	70-130			
Cleanup Standards							
13C12-PCB-028	4000	16.51	48	5-145			
13C12-PCB-111	4000	22.58	52	10-145			
13C12-PCB-178	4000	25.64	54	10-145			

Toxic Equivalency - (WHO 2005)

Lower Bound PCB TEQ	601
Mid Point PCB TEQ	601
Upper Bound PCB TEQ	601

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor TEQ Indicates the Toxic Equivalency
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that the analyte was positively identifed. The associated numerical result is an estimate.
R	Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Sample Analysis Report

Sample Name	**MR-Org-3**	Sampling Date	13-Sep-25		
ALS Sample ID	BU2502617-007	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA 1668C	Sample Size	1	sample	*K.NGUYEN*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Impinger	Split Ratio	4		10-Oct-2025

Run Information	**Run 1**	**Run 2**
Filename	6-251007B29	6-251008B13
Run Date	08-Oct-25 08:34	09-Oct-25 02:19
Final Volume	25 ul	25 uL
Dilution Factor	1	5
Analysis Units	pg	pg
Instrument - Column	HRMS 6 SPBOCTYL-293713-08	HRMS 6 SPBOCTYL-293713-08

Target Analytes	**TEF (WHO 200!**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
PCB-081	0.0003	22.36	<33	13	M,R	33	20						
PCB-077	0.0001							22.66	234000	110			100
PCB-123	0.00003	23.67	13.1	11	M,J		20						
PCB-118	0.00003	23.82	222	9.7	M		20						
PCB-114	0.00003	NotFnd	<10	10	U		20						
PCB-105	0.00003	24.49	120	10	M		20						
PCB-126	0.1	26.07	1650	10			20						
PCB-167	0.00003	26.98	<46	8.3	M,R	46	20						
PCB-156/157	0.00003	27.60	153	11			20						
PCB-169	0.03	29.27	172	8.7			20						
PCB-189	0.00003	30.56	112	9.9			20						

Extraction Standards	**pg**	**Time**	**% Rec**	**Limits**	**Time**	**% Rec**	**Limits**
13C12-PCB-081	4000	22.34	30	10-145			
13C12-PCB-077	4000				22.65	31	10-145
13C12-PCB-123	4000	23.65	28	10-145			
13C12-PCB-118	4000	23.82	28	10-145			
13C12-PCB-114	4000	24.12	28	10-145			
13C12-PCB-105	4000	24.47	29	10-145			
13C12-PCB-126	4000	26.06	29	10-145			
13C12-PCB-167	4000	26.96	34	10-145			
13C12-PCB-156/157	8000	27.60	35	10-145			
13C12-PCB-169	4000	29.26	38	10-145			
13C12-PCB-189	4000	30.56	32	10-145			
Field Spike Standards							
13C12-PCB-031	6000	16.34	100	70-130			
13C12-PCB-095	6000	19.67	111	70-130			
13C12-PCB-153	6000	24.75	91	70-130			
Cleanup Standards							
13C12-PCB-028	4000	16.51	32	5-145			
13C12-PCB-111	4000	22.58	35	10-145			
13C12-PCB-178	4000	25.65	35	10-145			

Toxic Equivalency - (WHO 2005)

Lower Bound PCB TEQ	194
Mid Point PCB TEQ	194
Upper Bound PCB TEQ	194

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor TEQ Indicates the Toxic Equivalency
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that the analyte was positively identifed. The associated numerical result is an estimate.
R	Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration.
B	Indicates that this target was detected in the blank at greater than 10% of the sample concentration.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Laboratory Method Blank Analysis Report

Sample Name	**Method Blank**	Sampling Date	n/a		
ALS Sample ID	QC-MRG2-2234586-001	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA 1668C	Sample Size	1	sample	*K.NGUYEN*
Analysis Type	Blank	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	4		10-Oct-2025

Run Information	**Run 1**
Filename	6-251008A02
Run Date	08-Oct-25 10:59
Final Volume	25 ul
Dilution Factor	1
Analysis Units	pg
Instrument - Column	HRMS 6 SPBOCTYL-293713-08

Target Analytes	**TEF (WHO 200!**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
PCB-081	0.0003	NotFnd	<7.7	7.7	U		20
PCB-077	0.0001	22.70	38.5	7.5			20
PCB-123	0.00003	NotFnd	<6.9	6.9	U		20
PCB-118	0.00003	23.88	<6.1	6.1	U	5.9	20
PCB-114	0.00003	NotFnd	<6.3	6.3	U		20
PCB-105	0.00003	NotFnd	<6.4	6.4	U		20
PCB-126	0.1	NotFnd	<6.7	6.7	U		20
PCB-167	0.00003	NotFnd	<5.6	5.6	U		20
PCB-156/157	0.00003	NotFnd	<7.8	7.8	U		20
PCB-169	0.03	NotFnd	<5.3	5.3	U		20
PCB-189	0.00003	NotFnd	<6.6	6.6	U		20

Extraction Standards	**pg**	**Time**	**% Rec**	**Limits**
13C12-PCB-081	4000	22.40	41	10-145
13C12-PCB-077	4000	22.69	44	10-145
13C12-PCB-123	4000	23.70	41	10-145
13C12-PCB-118	4000	23.87	43	10-145
13C12-PCB-114	4000	24.17	42	10-145
13C12-PCB-105	4000	24.52	42	10-145
13C12-PCB-126	4000	26.11	42	10-145
13C12-PCB-167	4000	27.01	46	10-145
13C12-PCB-156/157	8000	27.64	48	10-145
13C12-PCB-169	4000	29.31	57	10-145
13C12-PCB-189	4000	30.60	43	10-145
Field Spike Standards				
13C12-PCB-031	0		NS	
13C12-PCB-095	0		NS	
13C12-PCB-153	0		NS	
Cleanup Standards				
13C12-PCB-028	4000	16.56	34	5-145
13C12-PCB-111	4000	22.63	42	10-145
13C12-PCB-178	4000	25.70	41	10-145

Toxic Equivalency - (WHO 2005)

Lower Bound PCB TEQ	0.00385
Mid Point PCB TEQ	0.420
Upper Bound PCB TEQ	0.837

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor TEQ Indicates the Toxic Equivalency
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
U	Indicates that this compound was not detected above the EDL.
NS	Indicates that this compound was not spiked.
J	Indicates that the analyte was positively identifed. The associated numerical result is an estimate.
R	Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Laboratory Control Sample Analysis Report

Sample Name	**Laboratory Control Sample**	Sampling Date	n/a		
ALS Sample ID	QC-MRG2-2234586-002	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA 1668C	Sample Size	1	n/a	*K.NGUYEN*
Analysis Type	LCS	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	4		10-Oct-2025

Run Information	**Run 1**
Filename	6-251007B17
Run Date	07-Oct-25 23:47
Final Volume	25 ul
Dilution Factor	1
Analysis Units	% Rec
Instrument - Column	HRMS 6 SPBOCTYL-293713-08

Target Analytes	**pg**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
PCB-081	2000	22.38	100	60-135	
PCB-077	2000	22.68	102	60-135	
PCB-123	2000	23.69	94	60-135	
PCB-118	2000	23.86	98	60-135	
PCB-114	2000	24.16	99	60-135	
PCB-105	2000	24.51	93	60-135	
PCB-126	2000	26.09	95	60-135	
PCB-167	2000	27.00	82	60-135	
PCB-156/157	4000	27.64	81	60-135	
PCB-169	2000	29.30	78	60-135	
PCB-189	2000	30.58	112	60-135	
Extraction Standards		**Time**	**% Rec**	**Limits**	
13C12-PCB-081	4000	22.37	69	40-145	
13C12-PCB-077	4000	22.67	70	40-145	
13C12-PCB-123	4000	23.68	68	40-145	
13C12-PCB-118	4000	23.85	75	40-145	
13C12-PCB-114	4000	24.15	71	40-145	
13C12-PCB-105	4000	24.50	73	40-145	
13C12-PCB-126	4000	26.08	79	40-145	
13C12-PCB-167	4000	26.99	84	40-145	
13C12-PCB-156/157	8000	27.63	84	40-145	
13C12-PCB-169	4000	29.28	96	40-145	
13C12-PCB-189	4000	30.57	73	40-145	R
Field Spike Standards					
13C12-PCB-031	0		NS		
13C12-PCB-095	0		NS		
13C12-PCB-153	0		NS		
Cleanup Standards					
13C12-PCB-028	4000	16.53	48	15-145	
13C12-PCB-111	4000	22.60	60	40-145	
13C12-PCB-178	4000	25.67	57	40-145	

NS — Indicates that this compound was not spiked.

R — Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration.

Request for Analysis: WSP Canada

WSP Canada Inc..
160 Traders Blvd. E., Units 2&3, Mississauga, Ontario
L4Z 3K7, (905) 568-2929

Project #	Contact:
CA0053880.5555	Steve Mcclure
Baffinland	416-571-7076

Project Name: Baffinland Incinerator Tests 2025

Comments:

This work order is governed by the terms and conditions of ALS/WSP Agreement No. #Sud-039. No other terms and conditions apply. Pricing is per standard agreement.

Lab Use Only	Sample Number	Sample Identification	Date	Type	Amount Collected	Analysis Requested: Dioxins/Furans	+ DL-PCBs 22-Sep-25				
	Port-Org-1	Filter	7-Sep-25	Filter	2	x					
	Port-Org-1	Resin		Resin							
	Port-Org-1	FH Rinse		Hexane/ Acetone	<250ml						
	Port-Org-1	Condenser Rinse		Hexane/ Acetone	<250ml						
	Port-Org-1	Final Rinse		Hexane/ Acetone	<250ml						
	Port-Org-1	Impinger Contents		Ethylene Glycol	<950ml						
	Port-Org-2	Filter	8-Sep-24	Filter	2	x					
	Port-Org-2	Resin		Resin							
	Port-Org-2	FH Rinse		Hexane/ Acetone	<250ml						
	Port-Org-2	Condenser Rinse		Hexane/ Acetone	<250ml						
	Port-Org-2	Final Rinse		Hexane/ Acetone	<250ml						
	Port-Org-2	Impinger Contents		Ethylene Glycol	<950ml						

Authorized Signature: Date: Time:

Received at Lab By: Aaron Burton Date: 19-Sept-2025 Time: 12:00 20 @ 5.7°C

Environmental Division
Burlington
Work Order Reference
BU2502617

Telephone : +1 905 331 3111

WSP Canada Inc..
160 Traders Blvd. E., Units 2&3, Mississauga, Ontario
L4Z 3K7, (905) 568-2929

Request for Analysis: WSP Canada

Project #	Contact:
CA0053880.5555 Baffinland	Steve Mcclure 416-571-7076
Project Name: Baffinland Incinerator Tests	

Comments:

This work order is governed by the terms and conditions of ALS/WSP Agreement No. #Sud-039. No other terms and conditions apply. Pricing is per standard agreement.

Lab Use Only	Sample Number	Sample Identification	Date	Type	Amount Collected	Analysis Requested: Dioxins/Furans					
	Port-Org-3	Filter	9-Sep-25	Filter	2	x					
	Port-Org-3	Resin		Resin							
	Port-Org-3	FH Rinse		Hexane/ Acetone	<250ml						
	Port-Org-3	Condenser Rinse		Hexane/ Acetone	<250ml						
	Port-Org-3	Final Rinse		Hexane/ Acetone	<250ml						
	Port-Org-3	Impinger Contents		Ethylene Glycol	<950ml						
	Org-Blank	Filter	9-Sep-25	Filter	1	x					
	Org-Blank	Resin		Resin							
	Org-Blank	FH Rinse		Hexane/ Acetone	<250ml						
	Org-Blank	Condenser Rinse		Hexane/ Acetone	<250ml						
	Org-Blank	Final Rinse		Hexane/ Acetone	<250ml						
	Org-Blank	Impinger Contents		Ethylene Glycol	<950ml						

Authorized Signature: Date: Time:

Received at Lab By: Aaron Burton Date: 19-Sept-2025 Time: 12:00 5.7°C

WSP Canada Inc.
160 Traders Blvd. E., Units 2&3, Mississauga, Ontario
L4Z 3K7, (905) 568-2929

Request for Analysis: WSP Canada

Project #	Contact:
CA0053880.5555 Baffinland	Steve Mcclure 416-571-7076
Project Name: Baffinland Incinerator Tests	

Comments:

This work order is governed by the terms and conditions of ALS/WSP Agreement No. #Sud-039. No other terms and conditions apply. Pricing is per standard agreement.

Lab Use Only	Sample Number	Sample Identification	Date	Type	Amount Collected	Analysis Requested: Dioxins/Furans					
	MR-Org-1	Filter	11-Sep-25	Filter	2	x					
	MR-Org-1	Resin		Resin							
	MR-Org-1	FH Rinse		Hexane/ Acetone	<250ml						
	MR-Org-1	Condenser Rinse		Hexane/ Acetone	<250ml						
	MR-Org-1	Final Rinse		Hexane/ Acetone	<250ml						
	MR-Org-1	Impinger Contents		Ethylene Glycol	<950ml						
	MR-Org-2	Filter	12-Sep-25	Filter	2	x					
	MR-Org-2	Resin		Resin							
	MR-Org-2	FH Rinse		Hexane/ Acetone	<250ml						
	MR-Org-2	Condenser Rinse		Hexane/ Acetone	<250ml						
	MR-Org-2	Final Rinse		Hexane/ Acetone	<250ml						
	MR-Org-2	Impinger Contents		Ethylene Glycol	<950ml						

Authorized Signature: Date: Time:

Received at Lab By: Aaron Burton Date: 19-Sept-2025 Time: 12:00 5.7°C

WSP Canada Inc..
160 Traders Blvd. E., Units 2&3, Mississauga, Ontario
L4Z 3K7, (905) 568-2929

Request for Analysis: WSP Canada

Project # CA0053880.5555 Baffinland	Contact: Steve Mcclure 416-571-7076
Project Name: Baffinland Incinerator Tests	

Comments:

This work order is governed by the terms and conditions of ALS/WSP Agreement No. #Sud-039. No other terms and conditions apply. Pricing is per standard agreement.

Lab Use Only	Sample Number	Sample Identification	Date	Type	Amount Collected	Analysis Requested: Dioxins/Furans					
	MR-Org-3	Filter	13-Sep-25	Filter	2	x					
	MR-Org-3	Resin		Resin							
	MR-Org-3	FH Rinse		Hexane/ Acetone	<250ml						
	MR-Org-3	Condenser Rinse		Hexane/ Acetone	<250ml						
	MR-Org-3	Final Rinse		Hexane/ Acetone	<250ml						
	MR-Org-3	Impinger Contents		Ethylene Glycol	<950ml						

Authorized Signature: Date: Time:

Received at Lab By: Alla Avitan Date: 19-Sept-2025 Time: 12:00 5.7°C

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

Certificate of Analysis

ALS Project Contact:	Robert Chin	**Client Name:**	WSP Canada Inc.
ALS Project ID:	WSPI100	**Client Address:**	160 Traders Blvd. E, Units 2&3
ALS WO#:	BU2502617		Mississauga, ON
Date of Report	15-Oct-25		
Date of Sample Receipt	19-Sep-25	**Client Contact:**	Steve McClure
		Client Project ID:	CA0053880.5555 Baffinland

COMMENTS: **PCDD/F by EPA M23**

Certified by:

Sabrina Jin
Technical Specialist

ALS Life Sciences

Sample Analysis summary Report

Sample Name	Port-Org-1	Port-Org-2	Port-Org-3	Org-Blank	MR-Org-1	MR-Org-2	MR-Org-3
ALS Sample ID	BU2502617-001	BU2502617-002	BU2502617-003	BU2502617-004	BU2502617-005	BU2502617-006	BU2502617-007
Sample Size	1	1	1	1	1	1	1
Sample size units	Sample	Sample	Sample	Sample	Sample	Sample	Sample
Percent Moisture	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Sample Matrix	Impinger	Impinger	Impinger	Impinger	Impinger	Impinger	Impinger
Sampling Date	7-Sep-25	8-Sep-25	9-Sep-25	9-Sep-25	11-Sep-25	12-Sep-25	13-Sep-25
Extraction Date	26-Sep-25	26-Sep-25	26-Sep-25	26-Sep-25	26-Sep-25	26-Sep-25	26-Sep-25
Target Analytes	**pg**	**pg**	**pg**	**pg**	**pg**	**pg**	**pg**
2,3,7,8-TCDD	<1.1	<2.5	2.22	<1.2	<2.4	2.78	<3.5
1,2,3,7,8-PeCDD	<1.9	13.3	11.0	<1.2	12.3	11.4	21.8
1,2,3,4,7,8-HxCDD	<1.9	21.7	13.6	<1.1	<7.0	<11	25.3
1,2,3,6,7,8-HxCDD	6.24	46.1	29.4	<1.0	29.2	33.6	52.3
1,2,3,7,8,9-HxCDD	<5.2	31.1	23.9	<1.1	16.6	17.7	37.8
1,2,3,4,6,7,8-HpCDD	40.7	359	244	<1.7	176	267	584
OCDD	45.1	410	313	4.48	205	448	1410
2,3,7,8-TCDF	6.64	11.2	13.8	<1.4	17.4	19.9	37.7
1,2,3,7,8-PeCDF	17.8	23.9	30.8	<0.65	18.0	<23	64.9
2,3,4,7,8-PeCDF	9.46	87.5	97.4	<0.60	50.8	75.6	264
1,2,3,4,7,8-HxCDF	<9.0	75.6	85.3	<0.65	33.0	56.4	164
1,2,3,6,7,8-HxCDF	<9.9	98.8	110	<0.62	49.5	69.1	231
2,3,4,6,7,8-HxCDF	10.6	157	203	<0.63	149	153	690
1,2,3,7,8,9-HxCDF	8.22	32.4	41.1	<0.79	44.8	48.8	261
1,2,3,4,6,7,8-HpCDF	32.1	491	499	<2.5	365	482	1850
1,2,3,4,7,8,9-HpCDF	<12	<60	68.8	<1.1	56.8	95.0	536
OCDF	25.7	143	168	<2.0	293	434	3860
Field Spike Standards	**% Rec**	**% Rec**	**% Rec**	**% Rec**	**% Rec**	**% Rec**	**% Rec**
37Cl4-2,3,7,8-TCDD	92	93	93	92	95	91	91
13C12-1,2,3,4,7,8-HxCDD	91	96	88	93	91	99	87
13C12-2,3,4,7,8-PeCDF	103	104	107	107	105	106	104
13C12-1,2,3,4,7,8-HxCDF	93	93	97	99	94	93	92
13C12-1,2,3,4,7,8,9-HpCDF	106	104	109	109	106	110	109
Extraction Standards							
13C12-2,3,7,8-TCDD	87	65	74	67	65	65	52
13C12-1,2,3,7,8-PeCDD	99	79	87	79	77	76	68
13C12-1,2,3,6,7,8-HxCDD	92	78	90	71	79	73	70
13C12-1,2,3,4,6,7,8-HpCDD	81	70	85	65	69	68	62
13C12-OCDD	71	59	91	58	59	59	58
13C12-2,3,7,8-TCDF	86	64	73	65	65	66	48
13C12-1,2,3,7,8-PeCDF	98	76	85	74	74	74	65
13C12-1,2,3,6,7,8-HxCDF	93	84	85	66	78	80	69
13C12-1,2,3,4,6,7,8-HpCDF	75	67	80	60	66	63	58
Cleanup Standard							
13C12-1,2,3,7,8,9-HxCDF	80	75	70	61	68	72	75
Homologue Group Totals	**pg**	**pg**	**pg**	**pg**	**pg**	**pg**	**pg**
Total-TCDD	<1.1	7.76	7.70	<1.2	39.1	19.8	121
Total-PeCDD	21.5	104	127	<1.2	181	157	302
Total-HxCDD	64.6	595	325	<1.1	329	358	689
Total-HpCDD	90.2	871	510	<1.7	460	567	1220
Total-TCDF	43.5	340	416	<1.4	507	722	1810
Total-PeCDF	63.7	707	853	<0.65	590	765	2610
Total-HxCDF	43.0	926	1030	<0.79	601	753	3170
Total-HpCDF	43.9	611	808	<1.1	705	969	4560
Toxic Equivalency - (WHO 2005)							
Lower Bound PCDD/F TEQ (WHO 2005)	7.29	96.3	104	0.00134	68.2	85.4	284
Mid Point PCDD/F TEQ (WHO 2005)	12.5	98.2	104	1.70	71.3	87.2	288
Upper Bound PCDD/F TEQ (WHO 2005)	13.0	99.4	104	3.38	71.3	87.2	288

ALS Life Sciences

Quality Control Summary Report

Sample Name	Method Blank	Laboratory Control Sample
ALS Sample ID	QC-MRG2-2234586001	QC-MRG2-2234586002
Sample Size	1.00	1.00
Sample size units	Sample	n/a
Percent Moisture	n/a	n/a
Sample Matrix	QC	QC
Sampling Date	n/a	n/a
Extraction Date	26-Sep-25	26-Sep-25
Target Analytes	**pg**	**% Rec**
2,3,7,8-TCDD	<0.80	94
1,2,3,7,8-PeCDD	<0.55	106
1,2,3,4,7,8-HxCDD	<0.70	97
1,2,3,6,7,8-HxCDD	<0.65	102
1,2,3,7,8,9-HxCDD	<0.68	116
1,2,3,4,6,7,8-HpCDD	<0.68	97
OCDD	<1.7	89
2,3,7,8-TCDF	<1.1	91
1,2,3,7,8-PeCDF	<0.52	97
2,3,4,7,8-PeCDF	<0.48	94
1,2,3,4,7,8-HxCDF	<0.42	97
1,2,3,6,7,8-HxCDF	<0.40	108
2,3,4,6,7,8-HxCDF	<0.41	96
1,2,3,7,8,9-HxCDF	<0.51	113
1,2,3,4,6,7,8-HpCDF	<0.40	99
1,2,3,4,7,8,9-HpCDF	<0.50	97
OCDF	<1.4	92
Field Spike Standards	**% Rec**	**% Rec**
37Cl4-2,3,7,8-TCDD	NS	NS
13C12-1,2,3,4,7,8-HxCDD	NS	NS
13C12-2,3,4,7,8-PeCDF	NS	NS
13C12-1,2,3,4,7,8-HxCDF	NS	NS
13C12-1,2,3,4,7,8,9-HpCDF	NS	NS
Extraction Standards		
13C12-2,3,7,8-TCDD	70	68
13C12-1,2,3,7,8-PeCDD	92	87
13C12-1,2,3,6,7,8-HxCDD	78	78
13C12-1,2,3,4,6,7,8-HpCDD	81	76
13C12-OCDD	78	72
13C12-2,3,7,8-TCDF	70	64
13C12-1,2,3,7,8-PeCDF	85	82
13C12-1,2,3,6,7,8-HxCDF	78	76
13C12-1,2,3,4,6,7,8-HpCDF	77	75
Cleanup Standard		
13C12-1,2,3,7,8,9-HxCDF	78	73
Homologue Group Totals	**pg**	
Total-TCDD	<0.80	
Total-PeCDD	<0.55	
Total-HxCDD	<0.70	
Total-HpCDD	<0.68	
Total-TCDF	<1.1	
Total-PeCDF	<0.52	
Total-HxCDF	<0.51	
Total-HpCDF	<0.50	
Toxic Equivalency - (WHO 2005)		
Lower Bound PCDD/F TEQ (WHO 2005)	0.00	
Mid Point PCDD/F TEQ (WHO 2005)	1.01	
Upper Bound PCDD/F TEQ (WHO 2005)	2.01	

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Sample Analysis Report

Sample Name	**Port-Org-1**	Sampling Date	13-Sep-25		
ALS Sample ID	BU2502617-001	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA M23	Sample Size	1	Sample	*T.Patterson*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Impinger	Split Ratio	2		14-Oct-2026

Run Information	**Run 1**
Filename	10-251009A16
Run Date	09-Oct-25 13:46
Final Volume	20 uL
Dilution Factor	1
Analysis Units	pg
Instrument - Column	HRMS10 ZBDX1186680

Target Analytes	**TEF (WHO 2005**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
2,3,7,8-TCDD	1	NotFnd	<1.1	1.1	U		20
1,2,3,7,8-PeCDD	1	31.46	<1.9	1.3	M,J,R	1.9	20
1,2,3,4,7,8-HxCDD	0.1	33.65	<1.9	1.6	M,J,R	1.9	20
1,2,3,6,7,8-HxCDD	0.1	33.74	6.24	1.5	M,J		20
1,2,3,7,8,9-HxCDD	0.1	33.93	<5.2	1.5	J,R	5.2	20
1,2,3,4,6,7,8-HpCDD	0.01	36.23	40.7	2.4			20
OCDD	0.0003	39.17	45.1	3.1			40
2,3,7,8-TCDF	0.1	27.76	6.64	2.8	M,J		20
1,2,3,7,8-PeCDF	0.03	30.73	17.8	1.1	M,J		20
2,3,4,7,8-PeCDF	0.3	31.35	9.46	1.0	J		20
1,2,3,4,7,8-HxCDF	0.1	33.08	<9.0	1.8	J,R	9.0	20
1,2,3,6,7,8-HxCDF	0.1	33.16	<9.9	1.7	J,R	9.9	20
2,3,4,6,7,8-HxCDF	0.1	33.60	10.6	1.7	J		20
1,2,3,7,8,9-HxCDF	0.1	34.31	8.22	2.2	M,J		20
1,2,3,4,6,7,8-HpCDF	0.01	35.27	32.1	2.1	M		20
1,2,3,4,7,8,9-HpCDF	0.01	36.86	<12	2.7	J,R	12	20
OCDF	0.0003	39.52	25.7	5.2	M,J		40
Field Spike Standards	**pg**		**% Rec**	**Limits**			
37Cl4-2,3,7,8-TCDD	600	28.35	92	70-130			
13C12-1,2,3,4,7,8-HxCDD	6000	33.64	91	70-130			
13C12-2,3,4,7,8-PeCDF	6000	31.33	103	70-130			
13C12-1,2,3,4,7,8-HxCDF	6000	33.07	93	70-130			
13C12-1,2,3,4,7,8,9-HpCDF	6000	36.86	106	70-130			
Extraction Standards							
13C12-2,3,7,8-TCDD	4000	28.32	87	40-130			
13C12-1,2,3,7,8-PeCDD	4000	31.44	99	40-130			
13C12-1,2,3,6,7,8-HxCDD	4000	33.71	92	40-130			
13C12-1,2,3,4,6,7,8-HpCDD	4000	36.22	81	25-130			
13C12-OCDD	8000	39.16	71	25-130			
13C12-2,3,7,8-TCDF	4000	27.73	86	40-130			
13C12-1,2,3,7,8-PeCDF	4000	30.72	98	40-130			
13C12-1,2,3,6,7,8-HxCDF	4000	33.16	93	40-130			
13C12-1,2,3,4,6,7,8-HpCDF	4000	35.27	75	25-130			
Cleanup Standard	**pg**						
13C12-1,2,3,7,8,9-HxCDF	4000	34.29	80	40-130			

Homologue Group Totals	**# peaks**	**Conc. pg**	**EDL pg**			
Total-TCDD	0	<1.1	1.1	U		20
Total-PeCDD	2	21.5	1.3			20
Total-HxCDD	4	64.6	1.6			20
Total-HpCDD	2	90.2	2.4			20
Total-TCDF	6	43.5	2.8			20
Total-PeCDF	7	63.7	1.1			20
Total-HxCDF	5	43.0	2.2			20
Total-HpCDF	2	43.9	2.7			20

Toxic Equivalency - (WHO 2005)	**pg**
Lower Bound PCDD/F TEQ (WHO 2005)	7.29
Mid Point PCDD/F TEQ (WHO 2005)	12.5
Upper Bound PCDD/F TEQ (WHO 2005)	13.0

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor
TEQ	Indicates the Toxic Equivalency
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	indicates that a target analyte was detected below the calibrated range.
R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

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Sample Analysis Report

Sample Name	**Port-Org-2**	Sampling Date	13-Sep-25		
ALS Sample ID	BU2502617-002	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA M23	Sample Size	1	Sample	*T.Patterson*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Impinger	Split Ratio	2		14-Oct-2026

Run Information	**Run 1**
Filename	10-251009A17
Run Date	09-Oct-25 14:32
Final Volume	20 uL
Dilution Factor	1
Analysis Units	pg
Instrument - Column	HRMS10 ZBDX1186680

Target Analytes	**TEF (WHO 2005**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
2,3,7,8-TCDD	1	NotFnd	<2.5	2.5	U		20
1,2,3,7,8-PeCDD	1	31.45	13.3	1.1	J		20
1,2,3,4,7,8-HxCDD	0.1	33.66	21.7	2.9			20
1,2,3,6,7,8-HxCDD	0.1	33.74	46.1	2.7			20
1,2,3,7,8,9-HxCDD	0.1	33.93	31.1	2.8			20
1,2,3,4,6,7,8-HpCDD	0.01	36.24	359	4.1			20
OCDD	0.0003	39.18	410	5.4			40
2,3,7,8-TCDF	0.1	27.75	11.2	7.2	J		20
1,2,3,7,8-PeCDF	0.03	30.73	23.9	1.7	M		20
2,3,4,7,8-PeCDF	0.3	31.34	87.5	1.5			20
1,2,3,4,7,8-HxCDF	0.1	33.08	75.6	3.2			20
1,2,3,6,7,8-HxCDF	0.1	33.17	98.8	3.0			20
2,3,4,6,7,8-HxCDF	0.1	33.60	157	3.1			20
1,2,3,7,8,9-HxCDF	0.1	34.31	32.4	3.8			20
1,2,3,4,6,7,8-HpCDF	0.01	35.28	491	2.1			20
1,2,3,4,7,8,9-HpCDF	0.01	36.87	<60	2.6	M,R	60	20
OCDF	0.0003	39.53	143	5.0	M		40
Field Spike Standards	**pg**		**% Rec**	**Limits**			
37Cl4-2,3,7,8-TCDD	600	28.35	93	70-130			
13C12-1,2,3,4,7,8-HxCDD	6000	33.65	96	70-130			
13C12-2,3,4,7,8-PeCDF	6000	31.33	104	70-130			
13C12-1,2,3,4,7,8-HxCDF	6000	33.07	93	70-130			
13C12-1,2,3,4,7,8,9-HpCDF	6000	36.86	104	70-130			
Extraction Standards							
13C12-2,3,7,8-TCDD	4000	28.33	65	40-130			
13C12-1,2,3,7,8-PeCDD	4000	31.44	79	40-130			
13C12-1,2,3,6,7,8-HxCDD	4000	33.73	78	40-130			
13C12-1,2,3,4,6,7,8-HpCDD	4000	36.23	70	25-130			
13C12-OCDD	8000	39.17	59	25-130			
13C12-2,3,7,8-TCDF	4000	27.73	64	40-130			
13C12-1,2,3,7,8-PeCDF	4000	30.72	76	40-130			
13C12-1,2,3,6,7,8-HxCDF	4000	33.16	84	40-130			
13C12-1,2,3,4,6,7,8-HpCDF	4000	35.27	67	25-130			
Cleanup Standard	**pg**						
13C12-1,2,3,7,8,9-HxCDF	4000	34.29	75	40-130			

Homologue Group Totals	**# peaks**	**Conc. pg**	**EDL pg**	**LQL**
Total-TCDD	1	7.76	2.5	20
Total-PeCDD	5	104	1.1	20
Total-HxCDD	6	595	2.9	20
Total-HpCDD	2	871	4.1	20
Total-TCDF	14	340	7.2	20
Total-PeCDF	11	707	1.7	20
Total-HxCDF	10	926	3.8	20
Total-HpCDF	2	611	2.6	20

Toxic Equivalency - (WHO 2005)	**pg**
Lower Bound PCDD/F TEQ (WHO 2005)	96.3
Mid Point PCDD/F TEQ (WHO 2005)	98.2
Upper Bound PCDD/F TEQ (WHO 2005)	99.4

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor
TEQ	Indicates the Toxic Equivalency
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	indicates that a target analyte was detected below the calibrated range.
R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

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Sample Analysis Report

Sample Name	**Port-Org-3**	Sampling Date	13-Sep-25		
ALS Sample ID	BU2502617-003	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA M23	Sample Size	1	Sample	*T.Patterson*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Impinger	Split Ratio	2		14-Oct-2026

Run Information	**Run 1**
Filename	10-251009A18
Run Date	09-Oct-25 15:18
Final Volume	20 uL
Dilution Factor	1
Analysis Units	pg
Instrument - Column	HRMS10 ZBDX1186680

Target Analytes	**TEF (WHO 2005**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
2,3,7,8-TCDD	1	28.35	2.22	1.7	J		20
1,2,3,7,8-PeCDD	1	31.46	11.0	1.1	M,J		20
1,2,3,4,7,8-HxCDD	0.1	33.66	13.6	1.7	J		20
1,2,3,6,7,8-HxCDD	0.1	33.75	29.4	1.6			20
1,2,3,7,8,9-HxCDD	0.1	33.94	23.9	1.7			20
1,2,3,4,6,7,8-HpCDD	0.01	36.24	244	2.6			20
OCDD	0.0003	39.18	313	2.8			40
2,3,7,8-TCDF	0.1	27.76	13.8	2.5	J		20
1,2,3,7,8-PeCDF	0.03	30.74	30.8	1.6			20
2,3,4,7,8-PeCDF	0.3	31.35	97.4	1.5			20
1,2,3,4,7,8-HxCDF	0.1	33.09	85.3	1.5			20
1,2,3,6,7,8-HxCDF	0.1	33.18	110	1.4			20
2,3,4,6,7,8-HxCDF	0.1	33.61	203	1.5			20
1,2,3,7,8,9-HxCDF	0.1	34.32	41.1	1.8			20
1,2,3,4,6,7,8-HpCDF	0.01	35.29	499	2.6			20
1,2,3,4,7,8,9-HpCDF	0.01	36.88	68.8	3.3			20
OCDF	0.0003	39.54	168	2.3			40

Field Spike Standards	**pg**		**% Rec**	**Limits**
37Cl4-2,3,7,8-TCDD	600	28.35	93	70-130
13C12-1,2,3,4,7,8-HxCDD	6000	33.65	88	70-130
13C12-2,3,4,7,8-PeCDF	6000	31.34	107	70-130
13C12-1,2,3,4,7,8-HxCDF	6000	33.08	97	70-130
13C12-1,2,3,4,7,8,9-HpCDF	6000	36.87	109	70-130
Extraction Standards				
13C12-2,3,7,8-TCDD	4000	28.33	74	40-130
13C12-1,2,3,7,8-PeCDD	4000	31.45	87	40-130
13C12-1,2,3,6,7,8-HxCDD	4000	33.74	90	40-130
13C12-1,2,3,4,6,7,8-HpCDD	4000	36.23	85	25-130
13C12-OCDD	8000	39.18	91	25-130
13C12-2,3,7,8-TCDF	4000	27.75	73	40-130
13C12-1,2,3,7,8-PeCDF	4000	30.73	85	40-130
13C12-1,2,3,6,7,8-HxCDF	4000	33.17	85	40-130
13C12-1,2,3,4,6,7,8-HpCDF	4000	35.28	80	25-130
Cleanup Standard	**pg**			
13C12-1,2,3,7,8,9-HxCDF	4000	34.30	70	40-130

Homologue Group Totals	**# peaks**	**Conc. pg**	**EDL pg**	
Total-TCDD	2	7.70	1.7	20
Total-PeCDD	6	127	1.1	20
Total-HxCDD	7	325	1.7	20
Total-HpCDD	2	510	2.6	20
Total-TCDF	13	416	2.5	20
Total-PeCDF	14	853	1.6	20
Total-HxCDF	10	1030	1.8	20
Total-HpCDF	4	808	3.3	20

Toxic Equivalency - (WHO 2005)	**pg**
Lower Bound PCDD/F TEQ (WHO 2005)	104
Mid Point PCDD/F TEQ (WHO 2005)	104
Upper Bound PCDD/F TEQ (WHO 2005)	104

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor
TEQ	Indicates the Toxic Equivalency
M	Indicates that a peak has been manually integrated.
J	indicates that a target analyte was detected below the calibrated range.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

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Sample Analysis Report

Sample Name	**Org-Blank**	Sampling Date	13-Sep-25		
ALS Sample ID	BU2502617-004	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA M23	Sample Size	1	Sample	*T.Patterson*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Impinger	Split Ratio	2		14-Oct-2026

Run Information	**Run 1**
Filename	10-251009A15
Run Date	09-Oct-25 12:59
Final Volume	20 uL
Dilution Factor	1
Analysis Units	pg
Instrument - Column	HRMS10 ZBDX1186680

Target Analytes	**TEF (WHO 2005**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
2,3,7,8-TCDD	1	NotFnd	<1.2	1.2	U		20
1,2,3,7,8-PeCDD	1	NotFnd	<1.2	1.2	U		20
1,2,3,4,7,8-HxCDD	0.1	NotFnd	<1.1	1.1	U		20
1,2,3,6,7,8-HxCDD	0.1	NotFnd	<1.0	1.0	U		20
1,2,3,7,8,9-HxCDD	0.1	NotFnd	<1.1	1.1	U		20
1,2,3,4,6,7,8-HpCDD	0.01	NotFnd	<1.7	1.7	U		20
OCDD	0.0003	39.18	4.48	2.7	M,J		40
2,3,7,8-TCDF	0.1	NotFnd	<1.4	1.4	U		20
1,2,3,7,8-PeCDF	0.03	NotFnd	<0.65	0.65	U		20
2,3,4,7,8-PeCDF	0.3	NotFnd	<0.60	0.60	U		20
1,2,3,4,7,8-HxCDF	0.1	NotFnd	<0.65	0.65	U		20
1,2,3,6,7,8-HxCDF	0.1	NotFnd	<0.62	0.62	U		20
2,3,4,6,7,8-HxCDF	0.1	NotFnd	<0.63	0.63	U		20
1,2,3,7,8,9-HxCDF	0.1	NotFnd	<0.79	0.79	U		20
1,2,3,4,6,7,8-HpCDF	0.01	35.28	<2.5	0.92	M,J,R	2.5	20
1,2,3,4,7,8,9-HpCDF	0.01	NotFnd	<1.1	1.1	U		20
OCDF	0.0003	NotFnd	<2.0	2.0	U		40

Field Spike Standards	**pg**		**% Rec**	**Limits**
37Cl4-2,3,7,8-TCDD	600	28.35	92	70-130
13C12-1,2,3,4,7,8-HxCDD	6000	33.64	93	70-130
13C12-2,3,4,7,8-PeCDF	6000	31.33	107	70-130
13C12-1,2,3,4,7,8-HxCDF	6000	33.07	99	70-130
13C12-1,2,3,4,7,8,9-HpCDF	6000	36.86	109	70-130
Extraction Standards				
13C12-2,3,7,8-TCDD	4000	28.32	67	40-130
13C12-1,2,3,7,8-PeCDD	4000	31.44	79	40-130
13C12-1,2,3,6,7,8-HxCDD	4000	33.73	71	40-130
13C12-1,2,3,4,6,7,8-HpCDD	4000	36.22	65	25-130
13C12-OCDD	8000	39.14	58	25-130
13C12-2,3,7,8-TCDF	4000	27.73	65	40-130
13C12-1,2,3,7,8-PeCDF	4000	30.72	74	40-130
13C12-1,2,3,6,7,8-HxCDF	4000	33.16	66	40-130
13C12-1,2,3,4,6,7,8-HpCDF	4000	35.27	60	25-130
Cleanup Standard	**pg**			
13C12-1,2,3,7,8,9-HxCDF	4000	34.29	61	40-130

Homologue Group Totals	**# peaks**	**Conc. pg**	**EDL pg**		
Total-TCDD	0	<1.2	1.2	U	20
Total-PeCDD	0	<1.2	1.2	U	20
Total-HxCDD	0	<1.1	1.1	U	20
Total-HpCDD	0	<1.7	1.7	U	20
Total-TCDF	0	<1.4	1.4	U	20
Total-PeCDF	0	<0.65	0.65	U	20
Total-HxCDF	0	<0.79	0.79	U	20
Total-HpCDF	0	<1.1	1.1	U	20

Toxic Equivalency - (WHO 2005)	**pg**
Lower Bound PCDD/F TEQ (WHO 2005)	0.00134
Mid Point PCDD/F TEQ (WHO 2005)	1.70
Upper Bound PCDD/F TEQ (WHO 2005)	3.38

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor
TEQ	Indicates the Toxic Equivalency
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	indicates that a target analyte was detected below the calibrated range.
R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Sample Analysis Report

Sample Name	**MR-Org-1**	Sampling Date	13-Sep-25		
ALS Sample ID	BU2502617-005	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA M23	Sample Size	1	Sample	*T.Patterson*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Impinger	Split Ratio	2		14-Oct-2026

Run Information	**Run 1**
Filename	10-251009A19
Run Date	09-Oct-25 16:04
Final Volume	20 uL
Dilution Factor	1
Analysis Units	pg
Instrument - Column	HRMS10 ZBDX1186680

Target Analytes	**TEF (WHO 2005**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
2,3,7,8-TCDD	1	28.35	<2.4	1.9	M,J,R	2.4	20
1,2,3,7,8-PeCDD	1	31.46	12.3	1.3	M,J		20
1,2,3,4,7,8-HxCDD	0.1	33.66	<7.0	1.6	J,R	7.0	20
1,2,3,6,7,8-HxCDD	0.1	33.74	29.2	1.5			20
1,2,3,7,8,9-HxCDD	0.1	33.93	16.6	1.5	J		20
1,2,3,4,6,7,8-HpCDD	0.01	36.23	176	3.8			20
OCDD	0.0003	39.16	205	3.8			40
2,3,7,8-TCDF	0.1	27.76	17.4	3.2	J		20
1,2,3,7,8-PeCDF	0.03	30.73	18.0	2.8	M,J		20
2,3,4,7,8-PeCDF	0.3	31.34	50.8	2.6			20
1,2,3,4,7,8-HxCDF	0.1	33.08	33.0	2.4			20
1,2,3,6,7,8-HxCDF	0.1	33.17	49.5	2.3			20
2,3,4,6,7,8-HxCDF	0.1	33.60	149	2.3	M		20
1,2,3,7,8,9-HxCDF	0.1	34.31	44.8	2.9			20
1,2,3,4,6,7,8-HpCDF	0.01	35.28	365	3.0			20
1,2,3,4,7,8,9-HpCDF	0.01	36.86	56.8	3.7			20
OCDF	0.0003	39.52	293	4.8			40
Field Spike Standards	**pg**		**% Rec**	**Limits**			
37Cl4-2,3,7,8-TCDD	600	28.35	95	70-130			
13C12-1,2,3,4,7,8-HxCDD	6000	33.64	91	70-130			
13C12-2,3,4,7,8-PeCDF	6000	31.33	105	70-130			
13C12-1,2,3,4,7,8-HxCDF	6000	33.07	94	70-130			
13C12-1,2,3,4,7,8,9-HpCDF	6000	36.85	106	70-130			
Extraction Standards							
13C12-2,3,7,8-TCDD	4000	28.33	65	40-130			
13C12-1,2,3,7,8-PeCDD	4000	31.44	77	40-130			
13C12-1,2,3,6,7,8-HxCDD	4000	33.73	79	40-130			
13C12-1,2,3,4,6,7,8-HpCDD	4000	36.22	69	25-130			
13C12-OCDD	8000	39.15	59	25-130			
13C12-2,3,7,8-TCDF	4000	27.73	65	40-130			
13C12-1,2,3,7,8-PeCDF	4000	30.72	74	40-130			
13C12-1,2,3,6,7,8-HxCDF	4000	33.16	78	40-130			
13C12-1,2,3,4,6,7,8-HpCDF	4000	35.27	66	25-130			
Cleanup Standard	**pg**						
13C12-1,2,3,7,8,9-HxCDF	4000	34.29	68	40-130			

Homologue Group Totals	**# peaks**	**Conc. pg**	**EDL pg**	**LQL**
Total-TCDD	3	39.1	1.9	20
Total-PeCDD	6	181	1.3	20
Total-HxCDD	5	329	1.6	20
Total-HpCDD	2	460	3.8	20
Total-TCDF	17	507	3.2	20
Total-PeCDF	13	590	2.8	20
Total-HxCDF	10	601	2.9	20
Total-HpCDF	4	705	3.7	20

Toxic Equivalency - (WHO 2005)	**pg**
Lower Bound PCDD/F TEQ (WHO 2005)	68.2
Mid Point PCDD/F TEQ (WHO 2005)	71.3
Upper Bound PCDD/F TEQ (WHO 2005)	71.3

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor
TEQ	Indicates the Toxic Equivalency
M	Indicates that a peak has been manually integrated.
J	indicates that a target analyte was detected below the calibrated range.
R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Sample Analysis Report

Sample Name	**MR-Org-2**	Sampling Date	13-Sep-25		
ALS Sample ID	BU2502617-006	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA M23	Sample Size	1	Sample	*T.Patterson*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Impinger	Split Ratio	2		14-Oct-2026

Run Information	**Run 1**
Filename	10-251009A20
Run Date	09-Oct-25 16:51
Final Volume	20 uL
Dilution Factor	1
Analysis Units	pg
Instrument - Column	HRMS10 ZBDX1186680

Target Analytes	**TEF (WHO 2005**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
2,3,7,8-TCDD	1	28.36	2.78	1.7	M,J		20
1,2,3,7,8-PeCDD	1	31.47	11.4	1.2	M,J		20
1,2,3,4,7,8-HxCDD	0.1	33.66	<11	2.2	M,J,R	11	20
1,2,3,6,7,8-HxCDD	0.1	33.75	33.6	2.1			20
1,2,3,7,8,9-HxCDD	0.1	33.95	17.7	2.2	M,J		20
1,2,3,4,6,7,8-HpCDD	0.01	36.24	267	4.0			20
OCDD	0.0003	39.19	448	5.7			40
2,3,7,8-TCDF	0.1	27.76	19.9	4.0	J		20
1,2,3,7,8-PeCDF	0.03	30.74	<23	1.4	R	23	20
2,3,4,7,8-PeCDF	0.3	31.36	75.6	1.2			20
1,2,3,4,7,8-HxCDF	0.1	33.10	56.4	2.3	M		20
1,2,3,6,7,8-HxCDF	0.1	33.18	69.1	2.2	M		20
2,3,4,6,7,8-HxCDF	0.1	33.62	153	2.2			20
1,2,3,7,8,9-HxCDF	0.1	34.32	48.8	2.8			20
1,2,3,4,6,7,8-HpCDF	0.01	35.29	482	2.8			20
1,2,3,4,7,8,9-HpCDF	0.01	36.90	95.0	3.5			20
OCDF	0.0003	39.54	434	5.5			40

Field Spike Standards	**pg**		**% Rec**	**Limits**
37Cl4-2,3,7,8-TCDD	600	28.36	91	70-130
13C12-1,2,3,4,7,8-HxCDD	6000	33.66	99	70-130
13C12-2,3,4,7,8-PeCDF	6000	31.35	106	70-130
13C12-1,2,3,4,7,8-HxCDF	6000	33.09	93	70-130
13C12-1,2,3,4,7,8,9-HpCDF	6000	36.87	110	70-130
Extraction Standards				
13C12-2,3,7,8-TCDD	4000	28.35	65	40-130
13C12-1,2,3,7,8-PeCDD	4000	31.46	76	40-130
13C12-1,2,3,6,7,8-HxCDD	4000	33.74	73	40-130
13C12-1,2,3,4,6,7,8-HpCDD	4000	36.23	68	25-130
13C12-OCDD	8000	39.18	59	25-130
13C12-2,3,7,8-TCDF	4000	27.75	66	40-130
13C12-1,2,3,7,8-PeCDF	4000	30.73	74	40-130
13C12-1,2,3,6,7,8-HxCDF	4000	33.17	80	40-130
13C12-1,2,3,4,6,7,8-HpCDF	4000	35.28	63	25-130
Cleanup Standard	**pg**			
13C12-1,2,3,7,8,9-HxCDF	4000	34.30	72	40-130

Homologue Group Totals	**# peaks**	**Conc. pg**	**EDL pg**		**LQL**
Total-TCDD	3	19.8	1.7		20
Total-PeCDD	6	157	1.2		20
Total-HxCDD	5	358	2.2		20
Total-HpCDD	2	567	4.0		20
Total-TCDF	18	722	4.0		20
Total-PeCDF	12	765	1.4		20
Total-HxCDF	9	753	2.8		20
Total-HpCDF	4	969	3.5		20

Toxic Equivalency - (WHO 2005)	**pg**
Lower Bound PCDD/F TEQ (WHO 2005)	85.4
Mid Point PCDD/F TEQ (WHO 2005)	87.2
Upper Bound PCDD/F TEQ (WHO 2005)	87.2

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor
TEQ	Indicates the Toxic Equivalency
M	Indicates that a peak has been manually integrated.
J	indicates that a target analyte was detected below the calibrated range.
R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Sample Analysis Report

Sample Name	**MR-Org-3**	Sampling Date	13-Sep-25		
ALS Sample ID	BU2502617-007	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA M23	Sample Size	1	Sample	*T.Patterson*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Impinger	Split Ratio	2		14-Oct-2026

Run Information	**Run 1**
Filename	10-251009A21
Run Date	09-Oct-25 17:37
Final Volume	20 uL
Dilution Factor	1
Analysis Units	pg
Instrument - Column	HRMS10 ZBDX1186680

Target Analytes	**TEF (WHO 2005**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
2,3,7,8-TCDD	1	28.36	<3.5	1.6	M,J,R	3.5	20
1,2,3,7,8-PeCDD	1	31.46	21.8	1.1			20
1,2,3,4,7,8-HxCDD	0.1	33.66	25.3	2.2			20
1,2,3,6,7,8-HxCDD	0.1	33.75	52.3	2.0			20
1,2,3,7,8,9-HxCDD	0.1	33.94	37.8	2.1			20
1,2,3,4,6,7,8-HpCDD	0.01	36.24	584	5.0			20
OCDD	0.0003	39.19	1410	5.8			40
2,3,7,8-TCDF	0.1	27.76	37.7	4.3			20
1,2,3,7,8-PeCDF	0.03	30.73	64.9	2.3			20
2,3,4,7,8-PeCDF	0.3	31.35	264	2.1			20
1,2,3,4,7,8-HxCDF	0.1	33.09	164	4.9			20
1,2,3,6,7,8-HxCDF	0.1	33.18	231	4.6			20
2,3,4,6,7,8-HxCDF	0.1	33.61	690	4.7			20
1,2,3,7,8,9-HxCDF	0.1	34.32	261	5.9			20
1,2,3,4,6,7,8-HpCDF	0.01	35.29	1850	7.6			20
1,2,3,4,7,8,9-HpCDF	0.01	36.88	536	9.5			20
OCDF	0.0003	39.55	3860	5.0			40
Field Spike Standards	**pg**		**% Rec**	**Limits**			
37Cl4-2,3,7,8-TCDD	600	28.35	91	70-130			
13C12-1,2,3,4,7,8-HxCDD	6000	33.65	87	70-130			
13C12-2,3,4,7,8-PeCDF	6000	31.34	104	70-130			
13C12-1,2,3,4,7,8-HxCDF	6000	33.08	92	70-130			
13C12-1,2,3,4,7,8,9-HpCDF	6000	36.87	109	70-130			
Extraction Standards							
13C12-2,3,7,8-TCDD	4000	28.33	52	40-130			
13C12-1,2,3,7,8-PeCDD	4000	31.45	68	40-130			
13C12-1,2,3,6,7,8-HxCDD	4000	33.74	70	40-130			
13C12-1,2,3,4,6,7,8-HpCDD	4000	36.24	62	25-130			
13C12-OCDD	8000	39.18	58	25-130			
13C12-2,3,7,8-TCDF	4000	27.75	48	40-130			
13C12-1,2,3,7,8-PeCDF	4000	30.72	65	40-130			
13C12-1,2,3,6,7,8-HxCDF	4000	33.17	69	40-130			
13C12-1,2,3,4,6,7,8-HpCDF	4000	35.28	58	25-130			
Cleanup Standard	**pg**						
13C12-1,2,3,7,8,9-HxCDF	4000	34.30	75	40-130			

Homologue Group Totals	**# peaks**	**Conc. pg**	**EDL pg**	**LQL**
Total-TCDD	6	121	1.6	20
Total-PeCDD	7	302	1.1	20
Total-HxCDD	8	689	2.2	20
Total-HpCDD	2	1220	5.0	20
Total-TCDF	22	1810	4.3	20
Total-PeCDF	15	2610	2.3	20
Total-HxCDF	13	3170	5.9	20
Total-HpCDF	4	4560	9.5	20

Toxic Equivalency - (WHO 2005)	**pg**
Lower Bound PCDD/F TEQ (WHO 2005)	284
Mid Point PCDD/F TEQ (WHO 2005)	288
Upper Bound PCDD/F TEQ (WHO 2005)	288

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor
TEQ	Indicates the Toxic Equivalency
M	Indicates that a peak has been manually integrated.
J	indicates that a target analyte was detected below the calibrated range.
R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Laboratory Method Blank Analysis Report

Sample Name	**Method Blank**	Sampling Date	n/a		
ALS Sample ID	QC-MRG2-2234586001	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA M23	Sample Size	1	Sample	*T.Patterson*
Analysis Type	Blank	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	2		14-Oct-2026

Run Information	**Run 1**
Filename	10-251009A14
Run Date	09-Oct-25 12:13
Final Volume	20 uL
Dilution Factor	1
Analysis Units	pg
Instrument - Column	HRMS10 ZBDX1186680

Target Analytes	**TEF (WHO 2005**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
2,3,7,8-TCDD	1	NotFnd	<0.80	0.80	U		20
1,2,3,7,8-PeCDD	1	NotFnd	<0.55	0.55	U		20
1,2,3,4,7,8-HxCDD	0.1	NotFnd	<0.70	0.70	U		20
1,2,3,6,7,8-HxCDD	0.1	NotFnd	<0.65	0.65	U		20
1,2,3,7,8,9-HxCDD	0.1	NotFnd	<0.68	0.68	U		20
1,2,3,4,6,7,8-HpCDD	0.01	NotFnd	<0.68	0.68	U		20
OCDD	0.0003	NotFnd	<1.7	1.7	U		40
2,3,7,8-TCDF	0.1	NotFnd	<1.1	1.1	U		20
1,2,3,7,8-PeCDF	0.03	NotFnd	<0.52	0.52	U		20
2,3,4,7,8-PeCDF	0.3	NotFnd	<0.48	0.48	U		20
1,2,3,4,7,8-HxCDF	0.1	NotFnd	<0.42	0.42	U		20
1,2,3,6,7,8-HxCDF	0.1	NotFnd	<0.40	0.40	U		20
2,3,4,6,7,8-HxCDF	0.1	NotFnd	<0.41	0.41	U		20
1,2,3,7,8,9-HxCDF	0.1	NotFnd	<0.51	0.51	U		20
1,2,3,4,6,7,8-HpCDF	0.01	35.29	<0.40	0.40	M,U	0.38	20
1,2,3,4,7,8,9-HpCDF	0.01	NotFnd	<0.50	0.50	U		20
OCDF	0.0003	NotFnd	<1.4	1.4	U		40
Field Spike Standards			**% Rec**				
37Cl4-2,3,7,8-TCDD			NS				
13C12-1,2,3,4,7,8-HxCDD			NS				
13C12-2,3,4,7,8-PeCDF			NS				
13C12-1,2,3,4,7,8-HxCDF			NS				
13C12-1,2,3,4,7,8,9-HpCDF			NS				
Extraction Standards							
13C12-2,3,7,8-TCDD	4000	28.33	70	40-130			
13C12-1,2,3,7,8-PeCDD	4000	31.45	92	40-130			
13C12-1,2,3,6,7,8-HxCDD	4000	33.73	78	40-130			
13C12-1,2,3,4,6,7,8-HpCDD	4000	36.22	81	25-130			
13C12-OCDD	8000	39.15	78	25-130			
13C12-2,3,7,8-TCDF	4000	27.73	70	40-130			
13C12-1,2,3,7,8-PeCDF	4000	30.72	85	40-130			
13C12-1,2,3,6,7,8-HxCDF	4000	33.16	78	40-130			
13C12-1,2,3,4,6,7,8-HpCDF	4000	35.27	77	25-130			
Cleanup Standard	**pg**						
13C12-1,2,3,7,8,9-HxCDF	4000	34.29	78	40-130			

Homologue Group Totals	**# peaks**	**Conc. pg**	**EDL pg**		**LQL**
Total-TCDD	0	<0.80	0.80	U	20
Total-PeCDD	0	<0.55	0.55	U	20
Total-HxCDD	0	<0.70	0.70	U	20
Total-HpCDD	0	<0.68	0.68	U	20
Total-TCDF	0	<1.1	1.1	U	20
Total-PeCDF	0	<0.52	0.52	U	20
Total-HxCDF	0	<0.51	0.51	U	20
Total-HpCDF	0	<0.50	0.50	U	20

Toxic Equivalency - (WHO 2005)	**pg**
Lower Bound PCDD/F TEQ (WHO 2005)	0.00
Mid Point PCDD/F TEQ (WHO 2005)	1.01
Upper Bound PCDD/F TEQ (WHO 2005)	2.01

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor TEQ Indicates the Toxic Equivalency
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
R	Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure
NS	Indicates that this standard was not spiked to sample

ALS Life Sciences

Laboratory Control Sample Analysis Report

Sample Name	**Laboratory Control Sample**	Sampling Date	n/a		
ALS Sample ID	QC-MRG2-2234586002	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA M23	Sample Size	1	n/a	*T.Patterson*
Analysis Type	LCS	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	2		14-Oct-2026

Run Information	**Run 1**
Filename	10-251009A09
Run Date	09-Oct-25 09:50
Final Volume	20 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS10 ZBDX1186680

Target Analytes	**pg**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
2,3,7,8-TCDD	400	28.36	94	70-130	
1,2,3,7,8-PeCDD	2000	31.46	106	70-130	
1,2,3,4,7,8-HxCDD	2000	33.66	97	70-130	
1,2,3,6,7,8-HxCDD	2000	33.75	102	70-130	
1,2,3,7,8,9-HxCDD	2000	33.94	116	70-130	
1,2,3,4,6,7,8-HpCDD	2000	36.24	97	70-130	
OCDD	4000	39.17	89	70-130	
2,3,7,8-TCDF	400	27.76	91	70-130	
1,2,3,7,8-PeCDF	2000	30.74	97	70-130	
2,3,4,7,8-PeCDF	2000	31.35	94	70-130	
1,2,3,4,7,8-HxCDF	2000	33.09	97	70-130	
1,2,3,6,7,8-HxCDF	2000	33.18	108	70-130	
2,3,4,6,7,8-HxCDF	2000	33.61	96	70-130	
1,2,3,7,8,9-HxCDF	2000	34.31	113	70-130	
1,2,3,4,6,7,8-HpCDF	2000	35.29	99	70-130	
1,2,3,4,7,8,9-HpCDF	2000	36.88	97	70-130	
OCDF	4000	39.53	92	70-130	
Field Spike Standards			**% Rec**		
37Cl4-2,3,7,8-TCDD			NS		
13C12-1,2,3,4,7,8-HxCDD			NS		
13C12-2,3,4,7,8-PeCDF			NS		
13C12-1,2,3,4,7,8-HxCDF			NS		
13C12-1,2,3,4,7,8,9-HpCDF			NS		
Extraction Standards					
13C12-2,3,7,8-TCDD	4000	28.33	68	40-130	
13C12-1,2,3,7,8-PeCDD	4000	31.45	87	40-130	
13C12-1,2,3,6,7,8-HxCDD	4000	33.74	78	40-130	
13C12-1,2,3,4,6,7,8-HpCDD	4000	36.23	76	25-130	
13C12-OCDD	8000	39.17	72	25-130	
13C12-2,3,7,8-TCDF	4000	27.75	64	40-130	
13C12-1,2,3,7,8-PeCDF	4000	30.73	82	40-130	
13C12-1,2,3,6,7,8-HxCDF	4000	33.17	76	40-130	
13C12-1,2,3,4,6,7,8-HpCDF	4000	35.28	75	25-130	
Cleanup Standard	**pg**				
13C12-1,2,3,7,8,9-HxCDF	4000	34.30	73	40-130	

NS Indicates that this standard was not spiked to sample

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

Certificate of Analysis

ALS Project Contact:	Robert Chin	**Client Name:**	WSP Canada Inc.
ALS Project ID:	WSPI100	**Client Address:**	160 Traders Blvd. E, Units 2&3
ALS WO#:	BU2502617		Mississauga, ON
Date of Report	15-Oct-25		L4Z 3K7
Date of Sample Receipt	19-Sep-25	**Client Contact:**	Steve McClure
		Client Project ID:	CA0053880.5555 Baffinland

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

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

Certified by:

Sabrina Jin
Technical Specialist

ALS Life Sciences

Sample Analysis Summary Report

Sample Name	Port-Org-1	Port-Org-2	Port-Org-3	Org-Blank	MR-Org-1	MR-Org-2	MR-Org-3
ALS Sample ID	BU2502617-001	BU2502617-002	BU2502617-003	BU2502617-004	BU2502617-005	BU2502617-006	BU2502617-007
Sample Size	1	1	1	1	1	1	1
Sample size units	sample	sample	sample	sample	sample	sample	sample
Percent Moisture	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Sample Matrix	Impinger	Impinger	Impinger	Impinger	Impinger	Impinger	Impinger
Sampling Date	7-Sep-25	8-Sep-25	9-Sep-25	9-Sep-25	11-Sep-25	12-Sep-25	13-Sep-25
Extraction Date	26-Sep-25	26-Sep-25	26-Sep-25	26-Sep-25	26-Sep-25	26-Sep-25	26-Sep-25
Target Analytes	**pg**	**pg**	**pg**	**pg**	**pg**	**pg**	**pg**
PCB-081	<8.5	<25	57.0	<7.8	23.3	40.9	<33
PCB-077	22100	4190	2440	135	1600000	863000	234000
PCB-123	10.6	<4.9	<8.3	<4.5	12.3	8.79	13.1
PCB-118	498	141	<77	<7.9	906	643	222
PCB-114	<14	13.2	<19	<4.3	9.81	<15	<10
PCB-105	227	81.5	74.2	<4.2	218	192	120
PCB-126	144	70.6	112	<4.2	7360	5030	1650
PCB-167	19.5	14.0	22.6	<3.3	113	91.3	<46
PCB-156/157	39.5	51.4	68.4	<4.5	296	234	153
PCB-169	<8.1	<22	30.2	<3.2	466	386	172
PCB-189	<8.9	61.3	82.4	<3.7	97.9	76.3	112
Extraction Standards	**% Rec**	**% Rec**	**% Rec**	**% Rec**	**% Rec**	**% Rec**	**% Rec**
13C12-PCB-081	48	61	58	57	54	53	30
13C12-PCB-077	52	62	58	59	60	55	31
13C12-PCB-123	50	60	56	60	55	50	28
13C12-PCB-118	52	61	57	64	51	51	28
13C12-PCB-114	48	60	60	59	54	50	28
13C12-PCB-105	52	59	59	62	53	53	29
13C12-PCB-126	49	64	54	62	55	55	29
13C12-PCB-167	56	75	67	72	64	58	34
13C12-PCB-156/157	56	66	70	75	62	63	35
13C12-PCB-169	58	76	76	85	68	71	38
13C12-PCB-189	43	59	61	69	55	57	32
Field Spike Standards							
13C12-PCB-031	103	100	102	101	103	103	100
13C12-PCB-095	97	92	98	95	97	102	111
13C12-PCB-153	97	99	94	92	92	94	91
Cleanup Standards							
13C12-PCB-028	49	50	39	48	46	48	32
13C12-PCB-111	47	60	50	56	54	52	35
13C12-PCB-178	45	63	51	57	56	54	35
Toxic Equivalency - (WHO 2005)							
Lower Bound PCB TEQ	16.6	7.49	12.4	0.0135	910	601	194
Mid Point PCB TEQ	16.8	8.16	12.4	0.273	910	601	194
Upper Bound PCB TEQ	16.9	8.16	12.4	0.533	910	601	194

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Quality Control Summary Report

Sample Name	Method Blank
ALS Sample ID	QC-MRG2-2234586-001
Sample Size	1
Sample size units	sample
Percent Moisture	n/a
Sample Matrix	QC
Sampling Date	n/a
Extraction Date	26-Sep-25

Target Analytes	pg
PCB-081	<7.7
PCB-077	38.5
PCB-123	<6.9
PCB-118	<6.1
PCB-114	<6.3
PCB-105	<6.4
PCB-126	<6.7
PCB-167	<5.6
PCB-156/157	<7.8
PCB-169	<5.3
PCB-189	<6.6
Extraction Standards	**% Rec**
13C12-PCB-081	41
13C12-PCB-077	44
13C12-PCB-123	41
13C12-PCB-118	43
13C12-PCB-114	42
13C12-PCB-105	42
13C12-PCB-126	42
13C12-PCB-167	46
13C12-PCB-156/157	48
13C12-PCB-169	57
13C12-PCB-189	43
Field Spike Standards	
13C12-PCB-031	NS
13C12-PCB-095	NS
13C12-PCB-153	NS
Cleanup Standards	
13C12-PCB-028	34
13C12-PCB-111	42
13C12-PCB-178	41

Toxic Equivalency - (WHO 2005)	
Lower Bound PCB TEQ	0.00385
Mid Point PCB TEQ	0.420
Upper Bound PCB TEQ	0.837

ALS Life Sciences

Sample Analysis Summary Report

Sample Name	Laboratory Control Sample
ALS Sample ID	QC-MRG2-2234586-002
Sample Size	1
Sample size units	n/a
Percent Moisture	n/a
Sample Matrix	QC
Sampling Date	n/a
Extraction Date	26-Sep-25
Target Analytes	**% Rec**
PCB-081	100
PCB-077	102
PCB-123	94
PCB-118	98
PCB-114	99
PCB-105	93
PCB-126	95
PCB-167	82
PCB-156/157	81
PCB-169	78
PCB-189	112
Extraction Standards	**% Rec**
13C12-PCB-081	69
13C12-PCB-077	70
13C12-PCB-123	68
13C12-PCB-118	75
13C12-PCB-114	71
13C12-PCB-105	73
13C12-PCB-126	79
13C12-PCB-167	84
13C12-PCB-156/157	84
13C12-PCB-169	96
13C12-PCB-189	73
Field Spike Standards	
13C12-PCB-031	NS
13C12-PCB-095	NS
13C12-PCB-153	NS
Cleanup Standards	
13C12-PCB-028	48
13C12-PCB-111	60
13C12-PCB-178	57

ALS Life Sciences

Sample Analysis Report

Sample Name	**Port-Org-1**	Sampling Date	7-Sep-25		
ALS Sample ID	BU2502617-001	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA 1668C	Sample Size	1	sample	*K.NGUYEN*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Impinger	Split Ratio	4		10-Oct-2025

Run Information	**Run 1**
Filename	6-251007B23
Run Date	08-Oct-25 04:10
Final Volume	25 ul
Dilution Factor	1
Analysis Units	pg
Instrument - Column	HRMS 6 SPBOCTYL-293713-08

Target Analytes	**TEF (WHO 200!**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
PCB-081	0.0003	NotFnd	<8.5	8.5	U		20
PCB-077	0.0001	22.68	22100	8.3			20
PCB-123	0.00003	23.65	10.6	8.1	M,J		20
PCB-118	0.00003	23.85	498	7.3	M		20
PCB-114	0.00003	24.15	<14	7.8	M,J,R	14	20
PCB-105	0.00003	24.50	227	7.6			20
PCB-126	0.1	26.08	144	8.1			20
PCB-167	0.00003	26.99	19.5	7.3	M,J		20
PCB-156/157	0.00003	27.62	39.5	10	M		20
PCB-169	0.03	29.25	<8.1	8.1	M,U	5.9	20
PCB-189	0.00003	NotFnd	<8.9	8.9	U		20
Extraction Standards	**pg**	**Time**	**% Rec**	**Limits**			
13C12-PCB-081	4000	22.36	48	10-145			
13C12-PCB-077	4000	22.67	52	10-145			
13C12-PCB-123	4000	23.67	50	10-145			
13C12-PCB-118	4000	23.83	52	10-145			
13C12-PCB-114	4000	24.14	48	10-145			
13C12-PCB-105	4000	24.48	52	10-145			
13C12-PCB-126	4000	26.07	49	10-145			
13C12-PCB-167	4000	26.98	56	10-145			
13C12-PCB-156/157	8000	27.60	56	10-145			
13C12-PCB-169	4000	29.26	58	10-145	R		
13C12-PCB-189	4000	30.56	43	10-145			
Field Spike Standards							
13C12-PCB-031	6000	16.35	103	70-130			
13C12-PCB-095	6000	19.68	97	70-130			
13C12-PCB-153	6000	24.76	97	70-130			
Cleanup Standards							
13C12-PCB-028	4000	16.52	49	5-145			
13C12-PCB-111	4000	22.60	47	10-145			
13C12-PCB-178	4000	25.66	45	10-145			

Toxic Equivalency - (WHO 2005)

Lower Bound PCB TEQ	16.6
Mid Point PCB TEQ	16.8
Upper Bound PCB TEQ	16.9

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor TEQ Indicates the Toxic Equivalency
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that the analyte was positively identifed. The associated numerical result is an estimate.
R	Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration.
B	Indicates that this target was detected in the blank at greater than 10% of the sample concentration.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Sample Analysis Report

Sample Name	**Port-Org-2**	Sampling Date	8-Sep-25		
ALS Sample ID	BU2502617-002	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA 1668C	Sample Size	1	sample	*K.NGUYEN*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Impinger	Split Ratio	4		10-Oct-2025

Run Information	**Run 1**
Filename	6-251007B24
Run Date	08-Oct-25 04:54
Final Volume	25 ul
Dilution Factor	1
Analysis Units	pg
Instrument - Column	HRMS 6 SPBOCTYL-293713-08

Target Analytes	**TEF (WHO 200!**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
PCB-081	0.0003	22.37	<25	5.7	M,R	25	20
PCB-077	0.0001	22.67	4190	5.6			20
PCB-123	0.00003	NotFnd	<4.9	4.9	U		20
PCB-118	0.00003	23.85	141	4.4			20
PCB-114	0.00003	24.14	13.2	4.5	J		20
PCB-105	0.00003	24.49	81.5	4.8	M		20
PCB-126	0.1	26.07	70.6	4.4	M		20
PCB-167	0.00003	27.00	14.0	4.7	M,J		20
PCB-156/157	0.00003	27.63	51.4	7.3			20
PCB-169	0.03	29.28	<22	5.1	M,R	22	20
PCB-189	0.00003	30.57	61.3	5.3			20

Extraction Standards	**pg**	**Time**	**% Rec**	**Limits**
13C12-PCB-081	4000	22.36	61	10-145
13C12-PCB-077	4000	22.66	62	10-145
13C12-PCB-123	4000	23.67	60	10-145
13C12-PCB-118	4000	23.83	61	10-145
13C12-PCB-114	4000	24.14	60	10-145
13C12-PCB-105	4000	24.49	59	10-145
13C12-PCB-126	4000	26.07	64	10-145
13C12-PCB-167	4000	26.98	75	10-145
13C12-PCB-156/157	8000	27.62	66	10-145
13C12-PCB-169	4000	29.27	76	10-145
13C12-PCB-189	4000	30.56	59	10-145
Field Spike Standards				
13C12-PCB-031	6000	16.36	100	70-130
13C12-PCB-095	6000	19.68	92	70-130
13C12-PCB-153	6000	24.76	99	70-130
Cleanup Standards				
13C12-PCB-028	4000	16.52	50	5-145
13C12-PCB-111	4000	22.59	60	10-145
13C12-PCB-178	4000	25.66	63	10-145

Toxic Equivalency - (WHO 2005)

Lower Bound PCB TEQ	7.49
Mid Point PCB TEQ	8.16
Upper Bound PCB TEQ	8.16

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor TEQ Indicates the Toxic Equivalency
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that the analyte was positively identifed. The associated numerical result is an estimate.
R	Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration.
B	Indicates that this target was detected in the blank at greater than 10% of the sample concentration.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

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Sample Analysis Report

Sample Name	**Port-Org-3**	Sampling Date	9-Sep-25		
ALS Sample ID	BU2502617-003	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA 1668C	Sample Size	1	sample	*K.NGUYEN*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Impinger	Split Ratio	4		10-Oct-2025

Run Information	**Run 1**
Filename	6-251007B25
Run Date	08-Oct-25 05:38
Final Volume	25 ul
Dilution Factor	1
Analysis Units	pg
Instrument - Column	HRMS 6 SPBOCTYL-293713-08

Target Analytes	**TEF (WHO 200!**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
PCB-081	0.0003	22.37	57.0	6.6			20
PCB-077	0.0001	22.67	2440	6.6			20
PCB-123	0.00003	NotFnd	<8.3	8.3	U		20
PCB-118	0.00003	23.85	<77	7.2	R	77	20
PCB-114	0.00003	24.15	<19	7.2	J,R	19	20
PCB-105	0.00003	24.49	74.2	7.2			20
PCB-126	0.1	26.07	112	8.2			20
PCB-167	0.00003	27.00	22.6	4.7			20
PCB-156/157	0.00003	27.60	68.4	6.4			20
PCB-169	0.03	29.27	30.2	4.8	M		20
PCB-189	0.00003	30.57	82.4	7.0			20
Extraction Standards	**pg**	**Time**	**% Rec**	**Limits**			
13C12-PCB-081	4000	22.36	58	10-145			
13C12-PCB-077	4000	22.66	58	10-145			
13C12-PCB-123	4000	23.65	56	10-145			
13C12-PCB-118	4000	23.82	57	10-145			
13C12-PCB-114	4000	24.14	60	10-145			
13C12-PCB-105	4000	24.47	59	10-145			
13C12-PCB-126	4000	26.07	54	10-145			
13C12-PCB-167	4000	26.98	67	10-145			
13C12-PCB-156/157	8000	27.62	70	10-145			
13C12-PCB-169	4000	29.26	76	10-145	R		
13C12-PCB-189	4000	30.56	61	10-145			
Field Spike Standards							
13C12-PCB-031	6000	16.35	102	70-130			
13C12-PCB-095	6000	19.68	98	70-130			
13C12-PCB-153	6000	24.76	94	70-130			
Cleanup Standards							
13C12-PCB-028	4000	16.52	39	5-145			
13C12-PCB-111	4000	22.59	50	10-145			
13C12-PCB-178	4000	25.66	51	10-145			

Toxic Equivalency - (WHO 2005)

Lower Bound PCB TEQ	12.4
Mid Point PCB TEQ	12.4
Upper Bound PCB TEQ	12.4

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor TEQ Indicates the Toxic Equivalency
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that the analyte was positively identifed. The associated numerical result is an estimate.
R	Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration.
B	Indicates that this target was detected in the blank at greater than 10% of the sample concentration.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

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Sample Analysis Report

Sample Name	**Org-Blank**	Sampling Date	9-Sep-25		
ALS Sample ID	BU2502617-004	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA 1668C	Sample Size	1	sample	*K.NGUYEN*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Impinger	Split Ratio	4		10-Oct-2025

Run Information	**Run 1**
Filename	6-251007B26
Run Date	08-Oct-25 06:22
Final Volume	25 ul
Dilution Factor	1
Analysis Units	pg
Instrument - Column	HRMS 6 SPBOCTYL-293713-08

Target Analytes	**TEF (WHO 200!**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
PCB-081	0.0003	NotFnd	<7.8	7.8	U		20
PCB-077	0.0001	22.68	135	7.2	B		20
PCB-123	0.00003	NotFnd	<4.5	4.5	U		20
PCB-118	0.00003	23.85	<7.9	3.8	J,R	7.9	20
PCB-114	0.00003	NotFnd	<4.3	4.3	U		20
PCB-105	0.00003	NotFnd	<4.2	4.2	U		20
PCB-126	0.1	NotFnd	<4.2	4.2	U		20
PCB-167	0.00003	NotFnd	<3.3	3.3	U		20
PCB-156/157	0.00003	NotFnd	<4.5	4.5	U		20
PCB-169	0.03	NotFnd	<3.2	3.2	U		20
PCB-189	0.00003	NotFnd	<3.7	3.7	U		20

Extraction Standards	**pg**	**Time**	**% Rec**	**Limits**
13C12-PCB-081	4000	22.37	57	10-145
13C12-PCB-077	4000	22.67	59	10-145
13C12-PCB-123	4000	23.67	60	10-145
13C12-PCB-118	4000	23.83	64	10-145
13C12-PCB-114	4000	24.14	59	10-145
13C12-PCB-105	4000	24.48	62	10-145
13C12-PCB-126	4000	26.07	62	10-145
13C12-PCB-167	4000	26.98	72	10-145
13C12-PCB-156/157	8000	27.60	75	10-145
13C12-PCB-169	4000	29.26	85	10-145
13C12-PCB-189	4000	30.56	69	10-145
Field Spike Standards				
13C12-PCB-031	6000	16.37	101	70-130
13C12-PCB-095	6000	19.69	95	70-130
13C12-PCB-153	6000	24.76	92	70-130
Cleanup Standards				
13C12-PCB-028	4000	16.53	48	5-145
13C12-PCB-111	4000	22.60	56	10-145
13C12-PCB-178	4000	25.66	57	10-145

Toxic Equivalency - (WHO 2005)

Lower Bound PCB TEQ	0.0135
Mid Point PCB TEQ	0.273
Upper Bound PCB TEQ	0.533

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor TEQ Indicates the Toxic Equivalency
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that the analyte was positively identifed. The associated numerical result is an estimate.
R	Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration.
B	Indicates that this target was detected in the blank at greater than 10% of the sample concentration.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Sample Analysis Report

Sample Name	**MR-Org-1**	Sampling Date	11-Sep-25		
ALS Sample ID	BU2502617-005	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA 1668C	Sample Size	1	sample	*K.NGUYEN*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Impinger	Split Ratio	4		10-Oct-2025

Run Information	**Run 1**	**Run 2**
Filename	6-251007B27	6-251008B14
Run Date	08-Oct-25 07:06	09-Oct-25 03:02
Final Volume	25 ul	25 uL
Dilution Factor	1	10
Analysis Units	pg	pg
Instrument - Column	HRMS 6 SPBOCTYL-293713-08	HRMS 6 SPBOCTYL-293713-08

Target Analytes	**TEF (WHO 200!**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
PCB-081	0.0003	22.35	23.3	7.8			20						
PCB-077	0.0001							22.66	1600000	120			200
PCB-123	0.00003	23.64	12.3	6.9	M,J		20						
PCB-118	0.00003	23.82	906	6.7			20						
PCB-114	0.00003	24.14	9.81	6.6	M,J		20						
PCB-105	0.00003	24.48	218	6.6			20						
PCB-126	0.1	26.06	7360	6.5			20						
PCB-167	0.00003	26.98	113	4.6			20						
PCB-156/157	0.00003	27.59	296	6.3			20						
PCB-169	0.03	29.26	466	4.6			20						
PCB-189	0.00003	30.56	97.9	5.2			20						

Extraction Standards	**pg**	**Time**	**% Rec**	**Limits**	**Time**	**% Rec**	**Limits**	
13C12-PCB-081	4000	22.34	54	10-145				
13C12-PCB-077	4000				22.65	60	10-145	R
13C12-PCB-123	4000	23.64	55	10-145				
13C12-PCB-118	4000	23.81	51	10-145				
13C12-PCB-114	4000	24.11	54	10-145				
13C12-PCB-105	4000	24.46	53	10-145				
13C12-PCB-126	4000	26.05	55	10-145				
13C12-PCB-167	4000	26.96	64	10-145				
13C12-PCB-156/157	8000	27.59	62	10-145				
13C12-PCB-169	4000	29.25	68	10-145				
13C12-PCB-189	4000	30.54	55	10-145				
Field Spike Standards								
13C12-PCB-031	6000	16.34	103	70-130				
13C12-PCB-095	6000	19.67	97	70-130				
13C12-PCB-153	6000	24.75	92	70-130				
Cleanup Standards								
13C12-PCB-028	4000	16.51	46	5-145				
13C12-PCB-111	4000	22.58	54	10-145				
13C12-PCB-178	4000	25.64	56	10-145				

Toxic Equivalency - (WHO 2005)

Lower Bound PCB TEQ	910
Mid Point PCB TEQ	910
Upper Bound PCB TEQ	910

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor TEQ Indicates the Toxic Equivalency
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that the analyte was positively identifed. The associated numerical result is an estimate.
R	Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Sample Analysis Report

Sample Name	**MR-Org-2**	Sampling Date	12-Sep-25		
ALS Sample ID	BU2502617-006	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA 1668C	Sample Size	1	sample	*K.NGUYEN*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Impinger	Split Ratio	4		10-Oct-2025

Run Information	**Run 1**	**Run 2**
Filename	6-251007B28	6-251008B15
Run Date	08-Oct-25 07:50	09-Oct-25 03:46
Final Volume	25 ul	25 uL
Dilution Factor	1	10
Analysis Units	pg	pg
Instrument - Column	HRMS 6 SPBOCTYL-293713-08	HRMS 6 SPBOCTYL-293713-08

Target Analytes	**TEF (WHO 200!**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
PCB-081	0.0003	22.35	40.9	8.8	M		20						
PCB-077	0.0001							22.64	863000	91			200
PCB-123	0.00003	23.64	8.79	5.8	M,J		20						
PCB-118	0.00003	23.82	643	5.2			20						
PCB-114	0.00003	24.12	<15	5.6	M,J,R	15	20						
PCB-105	0.00003	24.48	192	5.2			20						
PCB-126	0.1	26.06	5030	5.2			20						
PCB-167	0.00003	26.98	91.3	4.9			20						
PCB-156/157	0.00003	27.59	234	6.1			20						
PCB-169	0.03	29.26	386	4.3			20						
PCB-189	0.00003	30.56	76.3	4.6			20						

Extraction Standards	**pg**	**Time**	**% Rec**	**Limits**	**Time**	**% Rec**	**Limits**
13C12-PCB-081	4000	22.34	53	10-145			
13C12-PCB-077	4000				22.63	55	10-145
13C12-PCB-123	4000	23.64	50	10-145			
13C12-PCB-118	4000	23.81	51	10-145			
13C12-PCB-114	4000	24.11	50	10-145			
13C12-PCB-105	4000	24.46	53	10-145			
13C12-PCB-126	4000	26.05	55	10-145			
13C12-PCB-167	4000	26.95	58	10-145			
13C12-PCB-156/157	8000	27.59	63	10-145			
13C12-PCB-169	4000	29.25	71	10-145			
13C12-PCB-189	4000	30.54	57	10-145			
Field Spike Standards							
13C12-PCB-031	6000	16.34	103	70-130			
13C12-PCB-095	6000	19.67	102	70-130			
13C12-PCB-153	6000	24.75	94	70-130			
Cleanup Standards							
13C12-PCB-028	4000	16.51	48	5-145			
13C12-PCB-111	4000	22.58	52	10-145			
13C12-PCB-178	4000	25.64	54	10-145			

Toxic Equivalency - (WHO 2005)

Lower Bound PCB TEQ	601
Mid Point PCB TEQ	601
Upper Bound PCB TEQ	601

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor TEQ Indicates the Toxic Equivalency
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that the analyte was positively identifed. The associated numerical result is an estimate.
R	Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Sample Analysis Report

Sample Name	**MR-Org-3**	Sampling Date	13-Sep-25		
ALS Sample ID	BU2502617-007	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA 1668C	Sample Size	1	sample	*K.NGUYEN*
Analysis Type	Sample	Percent Moisture	n/a		--e-signature--
Sample Matrix	Impinger	Split Ratio	4		10-Oct-2025

Run Information	**Run 1**	**Run 2**
Filename	6-251007B29	6-251008B13
Run Date	08-Oct-25 08:34	09-Oct-25 02:19
Final Volume	25 ul	25 uL
Dilution Factor	1	5
Analysis Units	pg	pg
Instrument - Column	HRMS 6 SPBOCTYL-293713-08	HRMS 6 SPBOCTYL-293713-08

Target Analytes	**TEF (WHO 200!**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
PCB-081	0.0003	22.36	<33	13	M,R	33	20						
PCB-077	0.0001							22.66	234000	110			100
PCB-123	0.00003	23.67	13.1	11	M,J		20						
PCB-118	0.00003	23.82	222	9.7	M		20						
PCB-114	0.00003	NotFnd	<10	10	U		20						
PCB-105	0.00003	24.49	120	10	M		20						
PCB-126	0.1	26.07	1650	10			20						
PCB-167	0.00003	26.98	<46	8.3	M,R	46	20						
PCB-156/157	0.00003	27.60	153	11			20						
PCB-169	0.03	29.27	172	8.7			20						
PCB-189	0.00003	30.56	112	9.9			20						

Extraction Standards	**pg**	**Time**	**% Rec**	**Limits**	**Time**	**% Rec**	**Limits**
13C12-PCB-081	4000	22.34	30	10-145			
13C12-PCB-077	4000				22.65	31	10-145
13C12-PCB-123	4000	23.65	28	10-145			
13C12-PCB-118	4000	23.82	28	10-145			
13C12-PCB-114	4000	24.12	28	10-145			
13C12-PCB-105	4000	24.47	29	10-145			
13C12-PCB-126	4000	26.06	29	10-145			
13C12-PCB-167	4000	26.96	34	10-145			
13C12-PCB-156/157	8000	27.60	35	10-145			
13C12-PCB-169	4000	29.26	38	10-145			
13C12-PCB-189	4000	30.56	32	10-145			
Field Spike Standards							
13C12-PCB-031	6000	16.34	100	70-130			
13C12-PCB-095	6000	19.67	111	70-130			
13C12-PCB-153	6000	24.75	91	70-130			
Cleanup Standards							
13C12-PCB-028	4000	16.51	32	5-145			
13C12-PCB-111	4000	22.58	35	10-145			
13C12-PCB-178	4000	25.65	35	10-145			

Toxic Equivalency - (WHO 2005)

Lower Bound PCB TEQ	194
Mid Point PCB TEQ	194
Upper Bound PCB TEQ	194

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor TEQ Indicates the Toxic Equivalency
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
M	Indicates that a peak has been manually integrated.
U	Indicates that this compound was not detected above the EDL.
J	Indicates that the analyte was positively identifed. The associated numerical result is an estimate.
R	Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration.
B	Indicates that this target was detected in the blank at greater than 10% of the sample concentration.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Laboratory Method Blank Analysis Report

Sample Name	**Method Blank**	Sampling Date	n/a		
ALS Sample ID	QC-MRG2-2234586-001	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA 1668C	Sample Size	1	sample	*K.NGUYEN*
Analysis Type	Blank	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	4		10-Oct-2025

Run Information	**Run 1**
Filename	6-251008A02
Run Date	08-Oct-25 10:59
Final Volume	25 ul
Dilution Factor	1
Analysis Units	pg
Instrument - Column	HRMS 6 SPBOCTYL-293713-08

Target Analytes	**TEF (WHO 200!**	**Ret. Time**	**Conc. pg**	**EDL pg**	**Flags**	**EMPC pg**	**LQL**
PCB-081	0.0003	NotFnd	<7.7	7.7	U		20
PCB-077	0.0001	22.70	38.5	7.5			20
PCB-123	0.00003	NotFnd	<6.9	6.9	U		20
PCB-118	0.00003	23.88	<6.1	6.1	U	5.9	20
PCB-114	0.00003	NotFnd	<6.3	6.3	U		20
PCB-105	0.00003	NotFnd	<6.4	6.4	U		20
PCB-126	0.1	NotFnd	<6.7	6.7	U		20
PCB-167	0.00003	NotFnd	<5.6	5.6	U		20
PCB-156/157	0.00003	NotFnd	<7.8	7.8	U		20
PCB-169	0.03	NotFnd	<5.3	5.3	U		20
PCB-189	0.00003	NotFnd	<6.6	6.6	U		20

Extraction Standards	**pg**	**Time**	**% Rec**	**Limits**
13C12-PCB-081	4000	22.40	41	10-145
13C12-PCB-077	4000	22.69	44	10-145
13C12-PCB-123	4000	23.70	41	10-145
13C12-PCB-118	4000	23.87	43	10-145
13C12-PCB-114	4000	24.17	42	10-145
13C12-PCB-105	4000	24.52	42	10-145
13C12-PCB-126	4000	26.11	42	10-145
13C12-PCB-167	4000	27.01	46	10-145
13C12-PCB-156/157	8000	27.64	48	10-145
13C12-PCB-169	4000	29.31	57	10-145
13C12-PCB-189	4000	30.60	43	10-145
Field Spike Standards				
13C12-PCB-031	0		NS	
13C12-PCB-095	0		NS	
13C12-PCB-153	0		NS	
Cleanup Standards				
13C12-PCB-028	4000	16.56	34	5-145
13C12-PCB-111	4000	22.63	42	10-145
13C12-PCB-178	4000	25.70	41	10-145

Toxic Equivalency - (WHO 2005)

Lower Bound PCB TEQ	0.00385
Mid Point PCB TEQ	0.420
Upper Bound PCB TEQ	0.837

EDL	Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
TEF	Indicates the Toxic Equivalency Factor TEQ Indicates the Toxic Equivalency
LQL	Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
U	Indicates that this compound was not detected above the EDL.
NS	Indicates that this compound was not spiked.
J	Indicates that the analyte was positively identifed. The associated numerical result is an estimate.
R	Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration.
EMPC	Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Laboratory Control Sample Analysis Report

Sample Name	**Laboratory Control Sample**	Sampling Date	n/a		
ALS Sample ID	QC-MRG2-2234586-002	Extraction Date	26-Sep-25		Approved:
Analysis Method	EPA 1668C	Sample Size	1	n/a	*K.NGUYEN*
Analysis Type	LCS	Percent Moisture	n/a		--e-signature--
Sample Matrix	QC	Split Ratio	4		10-Oct-2025

Run Information	**Run 1**
Filename	6-251007B17
Run Date	07-Oct-25 23:47
Final Volume	25 ul
Dilution Factor	1
Analysis Units	% Rec
Instrument - Column	HRMS 6 SPBOCTYL-293713-08

Target Analytes	**pg**	**Ret. Time**	**% Rec**	**Limits**	**Flags**
PCB-081	2000	22.38	100	60-135	
PCB-077	2000	22.68	102	60-135	
PCB-123	2000	23.69	94	60-135	
PCB-118	2000	23.86	98	60-135	
PCB-114	2000	24.16	99	60-135	
PCB-105	2000	24.51	93	60-135	
PCB-126	2000	26.09	95	60-135	
PCB-167	2000	27.00	82	60-135	
PCB-156/157	4000	27.64	81	60-135	
PCB-169	2000	29.30	78	60-135	
PCB-189	2000	30.58	112	60-135	
Extraction Standards		**Time**	**% Rec**	**Limits**	
13C12-PCB-081	4000	22.37	69	40-145	
13C12-PCB-077	4000	22.67	70	40-145	
13C12-PCB-123	4000	23.68	68	40-145	
13C12-PCB-118	4000	23.85	75	40-145	
13C12-PCB-114	4000	24.15	71	40-145	
13C12-PCB-105	4000	24.50	73	40-145	
13C12-PCB-126	4000	26.08	79	40-145	
13C12-PCB-167	4000	26.99	84	40-145	
13C12-PCB-156/157	8000	27.63	84	40-145	
13C12-PCB-169	4000	29.28	96	40-145	
13C12-PCB-189	4000	30.57	73	40-145	R
Field Spike Standards					
13C12-PCB-031	0		NS		
13C12-PCB-095	0		NS		
13C12-PCB-153	0		NS		
Cleanup Standards					
13C12-PCB-028	4000	16.53	48	15-145	
13C12-PCB-111	4000	22.60	60	40-145	
13C12-PCB-178	4000	25.67	57	40-145	

NS — Indicates that this compound was not spiked.

R — Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration.

Request for Analysis: WSP Canada

WSP Canada Inc..
160 Traders Blvd. E., Units 2&3, Mississauga, Ontario
L4Z 3K7, (905) 568-2929

Project #	Contact:
CA0053880.5555	Steve Mcclure
Baffinland	416-571-7076

Project Name: Baffinland Incinerator Tests 2025

Comments:

This work order is governed by the terms and conditions of ALS/WSP Agreement No. #Sud-039. No other terms and conditions apply. Pricing is per standard agreement.

Lab Use Only	Sample Number	Sample Identification	Date	Type	Amount Collected	Analysis Requested: Dioxins/Furans	+ DL-PCBs 22-Sep-25				
	Port-Org-1	Filter	7-Sep-25	Filter	2	x					
	Port-Org-1	Resin		Resin							
	Port-Org-1	FH Rinse		Hexane/ Acetone	<250ml						
	Port-Org-1	Condenser Rinse		Hexane/ Acetone	<250ml						
	Port-Org-1	Final Rinse		Hexane/ Acetone	<250ml						
	Port-Org-1	Impinger Contents		Ethylene Glycol	<950ml						
	Port-Org-2	Filter	8-Sep-24	Filter	2	x					
	Port-Org-2	Resin		Resin							
	Port-Org-2	FH Rinse		Hexane/ Acetone	<250ml						
	Port-Org-2	Condenser Rinse		Hexane/ Acetone	<250ml						
	Port-Org-2	Final Rinse		Hexane/ Acetone	<250ml						
	Port-Org-2	Impinger Contents		Ethylene Glycol	<950ml						

Authorized Signature: Date: Time:

Received at Lab By: Aaron Burton Date: 19-Sept-2025 Time: 12:00 20 @ 5.7°C

Environmental Division
Burlington
Work Order Reference
BU2502617

Telephone : +1 905 331 3111

WSP Canada Inc..
160 Traders Blvd. E., Units 2&3, Mississauga, Ontario
L4Z 3K7, (905) 568-2929

Request for Analysis: WSP Canada

Project #	Contact:
CA0053880.5555 Baffinland	Steve Mcclure 416-571-7076
Project Name: Baffinland Incinerator Tests	

Comments:

This work order is governed by the terms and conditions of ALS/WSP Agreement No. #Sud-039. No other terms and conditions apply. Pricing is per standard agreement.

Lab Use Only	Sample Number	Sample Identification	Date	Type	Amount Collected	Analysis Requested: Dioxins/Furans					
	Port-Org-3	Filter	9-Sep-25	Filter	2	x					
	Port-Org-3	Resin		Resin							
	Port-Org-3	FH Rinse		Hexane/ Acetone	<250ml						
	Port-Org-3	Condenser Rinse		Hexane/ Acetone	<250ml						
	Port-Org-3	Final Rinse		Hexane/ Acetone	<250ml						
	Port-Org-3	Impinger Contents		Ethylene Glycol	<950ml						
	Org-Blank	Filter	9-Sep-25	Filter	1	x					
	Org-Blank	Resin		Resin							
	Org-Blank	FH Rinse		Hexane/ Acetone	<250ml						
	Org-Blank	Condenser Rinse		Hexane/ Acetone	<250ml						
	Org-Blank	Final Rinse		Hexane/ Acetone	<250ml						
	Org-Blank	Impinger Contents		Ethylene Glycol	<950ml						

Authorized Signature: Date: Time:

Received at Lab By: Aaron Burton Date: 19-Sept-2025 Time: 12:00 5.7°C

WSP Canada Inc.
160 Traders Blvd. E., Units 2&3, Mississauga, Ontario
L4Z 3K7, (905) 568-2929

Request for Analysis: WSP Canada

Project #	Contact:
CA0053880.5555 Baffinland	Steve Mcclure 416-571-7076
Project Name: Baffinland Incinerator Tests	

Comments:

This work order is governed by the terms and conditions of ALS/WSP Agreement No. #Sud-039. No other terms and conditions apply. Pricing is per standard agreement.

Lab Use Only	Sample Number	Sample Identification	Date	Type	Amount Collected	Analysis Requested: Dioxins/Furans					
	MR-Org-1	Filter	11-Sep-25	Filter	2	x					
	MR-Org-1	Resin		Resin							
	MR-Org-1	FH Rinse		Hexane/ Acetone	<250ml						
	MR-Org-1	Condenser Rinse		Hexane/ Acetone	<250ml						
	MR-Org-1	Final Rinse		Hexane/ Acetone	<250ml						
	MR-Org-1	Impinger Contents		Ethylene Glycol	<950ml						
	MR-Org-2	Filter	12-Sep-25	Filter	2	x					
	MR-Org-2	Resin		Resin							
	MR-Org-2	FH Rinse		Hexane/ Acetone	<250ml						
	MR-Org-2	Condenser Rinse		Hexane/ Acetone	<250ml						
	MR-Org-2	Final Rinse		Hexane/ Acetone	<250ml						
	MR-Org-2	Impinger Contents		Ethylene Glycol	<950ml						

Authorized Signature: Date: Time:

Received at Lab By: Aaron Burton Date: 19-Sept-2025 Time: 12:00 5.7°C

WSP Canada Inc..
160 Traders Blvd. E., Units 2&3, Mississauga, Ontario
L4Z 3K7, (905) 568-2929

Request for Analysis: WSP Canada

Project # CA0053880.5555 Baffinland	Contact: Steve Mcclure 416-571-7076
Project Name: Baffinland Incinerator Tests	

Comments:

This work order is governed by the terms and conditions of ALS/WSP Agreement No. #Sud-039. No other terms and conditions apply. Pricing is per standard agreement.

Lab Use Only	Sample Number	Sample Identification	Date	Type	Amount Collected	Analysis Requested: Dioxins/Furans					
	MR-Org-3	Filter	13-Sep-25	Filter	2	x					
	MR-Org-3	Resin		Resin							
	MR-Org-3	FH Rinse		Hexane/ Acetone	<250ml						
	MR-Org-3	Condenser Rinse		Hexane/ Acetone	<250ml						
	MR-Org-3	Final Rinse		Hexane/ Acetone	<250ml						
	MR-Org-3	Impinger Contents		Ethylene Glycol	<950ml						

Authorized Signature: Date: Time:

Received at Lab By: Aalia Avitan Date: 19-Sept-2025 Time: 12:00 5.7°C

Appendix C

Raw Sampling Data

WSP Canada Inc

TEST NO.: MR ORG-1

JOB NUMBER: CA0053880.1111

STACK DIAMETER:

DATE: 11 Sept 2025

COMPANY: Baffinland

SOURCE: MR Incinerator

	Contents	Tare Wt. g	Final Wt. g	Difference, g
IMPINGER 1	XAD	444	579	135
IMPINGER 2	Eth. Glycol	707	729	22
IMPINGER 3	EMPTY	657	656	-1
IMPINGER 4	SG	768	775	7
IMPINGER 5				
IMPINGER 6				
IMPINGER 7				
IMPINGER 8				
IMPINGER 9				
Total				163

	Filter ID	Filter Tare, g	Filter Final, g
FILTER			

XAD 2

NOTES: BU02089-002-AA
TRAP #2

5.6% H_2O

wsp

ISOKINETIC SAMPLING, FIELD DATA SHEET

JOB NUMBER:
DATE: Sept. 11, 2025
COMPANY: Rattlesnake
SOURCE: MR EW
TEST NO.: ORG-1 TRAV-1
STARTUP TIME: 10:07 FINISH TIME: 12:07

STATIC PRESSURE (IN H20): -0.11 BAR. P. ("HG): 30.50
ASSUMED MOISTURE VOL. %: 5
NOZZLE DIAMETER (INCHES): 0.50
PITOT COEFFICIENT: 0.84
CONTROL BOX (NAME, dH, GAMMA): C9#5
GAS COMPOSITION: CO2% 6 O2% 13 SO2%:

PT. #		DGM Vol (FT3)	dP (IN H20)	dH (IN H20)	STACK (DEG F)	PROBE (deg F)	DGM IN (deg F)	DGM OUT (deg F)	OVEN (deg F)	IMP or XAD (deg F)	VACUUM (IN HG)	OXYGEN (mV)	NOTES
1		63.43	0.03	0.59	1280		61	60	250		3	21.1	9.977
	5	65.55	0.03	0.59	1275		61	60	250		5	14.7	7.098
	10	67.65	0.03	0.59	1275		61	60	250		5	14.7	
	15	69.75	0.03	0.58	1276		63	60	250		5	14.7	
2	20	71.89	0.03	0.57	1284		63	60	250		5	14.8	
	25	73.96	0.03	0.57	1279		63	60	250		5	14.8	
	30	76.00	0.03	0.57	1270		63	60	250		5	14.9	
	35	78.18	0.03	0.57	1269		65	61	250		5	14.8	
3	40	80.29	0.04	0.80	1284		65	61	250		5	14.7	
	45	82.72	0.04	0.80	1280		65	61	250		5	15.0	
	50	85.18	0.07	1.3	1416		66	61	250		8	14.0	
	55	88.23	0.07	1.3	1416		66	61	250		8	13.6	
4	60	91.30	0.07	1.0	1412		67	61	250		8	13.9	
	65	94.08	0.07	1.0	1413		67	62	250		8	13.7	
	70	96.96	0.07	1.3	1419		67	62	250		8	13.8	
	75	99.94	0.07	1.3	1416		67	61	250		8	13.9	
5	80	102.92	0.07	1.3	1411		67	61	250		8	13.9	
	85	105.90	0.07	1.3	1416		67	61	250		8	13.9	
	90	108.88	0.07	1.3	1411		68	62	250		8	14.0	
	95	111.88	0.07	1.3	1407		68	62	250		8	14.0	
6	100	114.87	0.06	1.2	1333		68	62	250		8	15.3	
	105	117.72	0.06	1.2	1325		68	62	250		8	15.5	
	110	120.75	0.06	1.2	1328		68	62	250		8	15.4	
	115	123.66	0.06	1.2	1327		68	62	250		8	15.5	
	120	126.51											

INITIAL L.C.: 0.001 @ 15 "Hg
FINAL L.C. @ "Hg

CONSOLE OPERATOR:

WSP

ISOKINETIC SAMPLING, FIELD DATA SHEET

JOB NUMBER:
DATE: Sept. 11, 2025
COMPANY: Baffinland
SOURCE: MR EW
TEST NO.: ORG-1 TRAV-2
STARTUP TIME: 12:21 FINISH TIME: 14:21

STATIC PRESSURE (IN H20): BAR. P. ("HG):
ASSUMED MOISTURE VOL. %:
NOZZLE DIAMETER (INCHES):
PITOT COEFFICIENT:
CONTROL BOX (NAME, dH, GAMMA):
GAS COMPOSITION: CO2% O2% SO2%:

PT. #		DGM Vol (FT3)	dP (IN H20)	dH (IN H20)	STACK (DEG F)	PROBE (deg F)	DGM IN (deg F)	DGM OUT (deg F)	OVEN (deg F)	IMP or XAD (deg F)	VACUUM (IN HG)	OXYGEN ~~(mV)~~ %	NOTES (mV)
1		126.72	0.05	1.0	1388		63	62	250		6	21.2	10.073
	5	129.43	0.05	1.0	1392		65	62	250		6	14.7	
	10	132.12	0.05	0.97	1392		66	62	250		6	14.8	
	15	134.81	0.05	0.97	1395		66	63	250		6	14.9	
2	20	137.54	0.05	0.95	1384		66	63	250		6	14.9	
	25	140.21	0.05	0.95	1390		67	63	250		6	14.9	
	30	142.90	0.05	0.95	1387		68	65	250		6	14.9	
	35	145.58	0.05	0.95	1383		68	63	250		7	15.0	
3	40	148.27	0.05	0.95	1389		68	63	250		7	14.9	
	45	150.94	0.05	0.95	1393		69	65	250		7	15.0	
	50	153.62	0.05	0.95	1383		69	64	250		7	15.1	
	55	156.30	0.05	0.94	1384		69	64	250		7	15.1	7.285
4	60	158.90	0.06	1.2	1403		69	64	250		7	13.6	
	65	161.82	0.06	1.1	1400		70	65	250		7	14.0	
	70	164.68	0.06	1.1	1404		70	65	250		7	14.8	
	75	167.56	0.06	1.1	1397		70	65	250		7	15	
5	80	170.45	0.07	1.2	1411		71	65	250		7	13.8	
	85	173.39	0.06	1.1	1396		71	65	250		7	14.8	
	90	176.18	0.06	1.1	1410		71	65	250		7	14.7	
	95	178.96	0.06	1.1	1418		71	65	250		7	13.8	
6	100	181.76	0.06	1.1	1410		71	65	250		7	14.7	
	105	184.52	0.06	1.1	1410		71	65	250		7	14.8	
	110	187.26	0.06	1.1	1416		71	66	250		7	13.7	
	115	190.01	0.06	1.1	1407		71	66	250		7	14.7	
	120	192.72										21.4	10.171

INITIAL L.C.: 0.001 @ 10 "Hg
FINAL L.C.: 0.001 @ 8 "Hg

CONSOLE OPERATOR:

2 OF 2

WSP

WSP Canada Inc

TEST NO.: MR-ORG-2

JOB NUMBER:

STACK DIAMETER:

DATE: 12 Sept 25

COMPANY: Baffinland

SOURCE: MA Incin

	Contents	Tare Wt. g	Final Wt. g	Difference, g
IMPINGER 1	XAD Resin	455	611	56
IMPINGER 2	Eth. Glycol	713	734	21
IMPINGER 3	EMPTY	659	658	-1
IMPINGER 4	S.G.	775	783	8
IMPINGER 5				
IMPINGER 6				
IMPINGER 7				
IMPINGER 8				
IMPINGER 9				
Total				84

	Filter ID	Filter Tare, g	Filter Final, g
FILTER			

XAD TRAP #3

NOTES:

ISOKINETIC SAMPLING, FIELD DATA SHEET

JOB NUMBER:
DATE: Sept. 12, 2025
COMPANY: Bathurst
SOURCE: MR
TEST NO.: ORG-2 TRAV-1
STARTUP TIME: 10:29 FINISH TIME: 12:29

STATIC PRESSURE (IN H20): -0.14 BAR. P. ("HG): 30.54
ASSUMED MOISTURE VOL. %: 5.6
NOZZLE DIAMETER (INCHES): 0.50
PITOT COEFFICIENT: 0.84
CONTROL BOX (NAME, dH, GAMMA): ES#5
GAS COMPOSITION: CO2% 6 O2% 13 SO2%:

PT. #		DGM Vol (FT3)	dP (IN H20)	dH (IN H20)	STACK (DEG F)	PROBE (deg F)	DGM IN (deg F)	DGM OUT (deg F)	OVEN (deg F)	IMP or XAD (deg F)	VACUUM (IN HG)	OXYGEN (mV)	NOTES
1		230.21	0.04	0.80	1320		58	57	210		4	20.8	7.986
	5	232.50	0.05	0.95	1334		60	58	210		6	14.0	
	10	235.18	0.05	0.95	1334		61	58	210		6	14.3	7.011
	15	237.81	0.05	0.95	1339		63	58	210		6	14.2	
2	20	240.45	0.05	0.95	1340		63	59	210		6	14.2	
	25	243.09	0.05	0.95	1343		63	59	210		6	14.3	
	30	245.72	0.05	0.95	1345		64	59	210		6	14.3	
	35	248.37	0.05	0.94	1339		64	59	210		6	14.3	
3	40	251.01	0.07	1.04	1377		64	59	210		6	14.2	
	45	253.71	0.07	1.0	1395		65	60	210		9	13.8	
	50	256.48	0.07	1.3	1354		66	60	210		9	13.7	
	55	259.44	0.07	1.4	1397		66	60	210		9	13.7	
4	60	262.43	0.07	1.4	1395		66	60	210		9	13.9	
	65	265.42	0.07	1.4	1400		66	60	210		9	13.6	
	70	268.52	0.07	1.4	1446		67	61	210		9	13.4	
	75	271.61	0.07	1.4	1440		67	61	210		10	13.5	
5	80	274.48	0.07	1.4	1449		67	61	210		10	13.5	
	85	277.42	0.06	1.2	1384		67	61	210		10	14.5	
	90	280.32	0.06	1.2	1398		67	61	210		10	14.6	
	95	283.09	0.06	1.2	1398		67	61	210		10	14.4	
6	100	286.04	0.06	1.1	1386		67	61	210		10	14.4	
	105	288.85	0.04	0.80	1341		66	61	210		10	15.2	
	110	291.31	0.04	0.80	1338		66	61	210		10	15.2	
	115	221.79	0.04	0.80	1324		66	61	210		10	15.1	
	120	226.21											

INITIAL L.C.: 0.01 @ 15 "Hg
FINAL L.C. @ "Hg

CONSOLE OPERATOR: AZ

1 OF 2

ISOKINETIC SAMPLING, FIELD DATA SHEET

JOB NUMBER:
DATE: Sept. 12
COMPANY: Battelle
SOURCE: MR
TEST NO.: ORG-2 TRAV-2
STARTUP TIME: 12:42 FINISH TIME: 14:42

STATIC PRESSURE (IN H20): BAR. P. ("HG):
ASSUMED MOISTURE VOL. %:
NOZZLE DIAMETER (INCHES):
PITOT COEFFICIENT:
CONTROL BOX (NAME, dH, GAMMA):
GAS COMPOSITION: CO2% O2% SO2%:

PT. #		DGM Vol (FT3)	dP (IN H20)	dH (IN H20)	STACK (DEG F)	PROBE (deg F)	DGM IN (deg F)	DGM OUT (deg F)	OVEN (deg F)	IMP or XAD (deg F)	VACUUM (IN HG)	OXYGEN (mV)	NOTES
1		296.51	0.05	0.95	1393		62	61	250		7	20.9	10.065
	5	299.16	0.05	0.94	1413		64	61	250		6	13.8	
	10	301.80	0.05	0.90	1414		65	61	250		6	14	
	15	304.32	0.05	0.90	1413		66	61	250		6	14.1	
2	20	306.85	0.07	1.4	1418		66	61	250		6	14.1	
	25	309.98	0.07	1.4	1422		67	62	250		7	14.4	
	30	313.16	0.07	1.4	1416		68	62	250		7	14.5	
	35	316.29	0.07	1.3	1416		68	62	250		7	14.5	
3	40	319.31	0.07	1.3	1416		63	62	250		7	14.4	
	45	322.31	0.07	1.3	1416		69	63	250		7	14.5	
	50	325.29	0.07	1.3	1414		68	63	250		7	14.4	
	55	328.23	0.07	1.3	1411		69	63	250		7	14.5	
4	60	331.24	0.07	1.3	1424		69	63	250		7	14.4	
	65	334.23	0.07	1.3	1423		69	63	250		7	14.3	
	70	337.25	0.07	1.3	1421		69	63	250		7	14.5	
	75	340.26	0.07	1.3	1420		69	63	250		7	14.4	
5	80	343.26	0.07	1.3	1419		69	63	250		7	14.5	
	85	346.25	0.07	1.3	1419		67	64	250		7	14.4	
	90	349.23	0.07	1.3	1418		69	64	250		7	14.5	
	95	352.23	0.07	1.3	1424		69	64	250		7	14.5	
6	100	355.21	0.05	0.95	1416		69	64	250		7	14.4	
	105	357.91	0.05	0.95	1417		69	64	250		7	14.5	
	110	360.56	0.05	0.95	1409		69	64	250		7	14.6	
	115	363.22	0.05	0.95	1407		69	64	250		7	14.5	
	120	365.82										21.2	10.160

INITIAL L.C.: 0.001 @ 12 "Hg
FINAL L.C. 0.001 @ 10 "Hg

CONSOLE OPERATOR:

WSP

WSP Canada Inc

TEST NO.: MR - ORG - 3

JOB NUMBER:

STACK DIAMETER:

DATE: Sept. 13 2025

COMPANY: Baffinland

SOURCE: MR

	Contents	Tare Wt. g	Final Wt. g	Difference, g
IMPINGER 1	XAD	451	593	
IMPINGER 2	Ethylene Glycol	683	700	
IMPINGER 3	EMPTY	659	657	
IMPINGER 4	SG.	847	856	
IMPINGER 5				
IMPINGER 6				
IMPINGER 7				
IMPINGER 8				
IMPINGER 9				
Total				

	Filter ID	Filter Tare, g	Filter Final, g
FILTER			

XAD TRAIN B402089 0804 AA

NOTES:

ISOKINETIC SAMPLING, FIELD DATA SHEET

JOB NUMBER:
DATE: Sept. 13 2025
COMPANY: Battelle Ind
SOURCE: MR
TEST NO.: ORG-3 TRAV-1
STARTUP TIME: 10:20 FINISH TIME: 12:20

STATIC PRESSURE (IN H20): -0.11 BAR. P. ("HG): 30.5
ASSUMED MOISTURE VOL. %: 5.6
NOZZLE DIAMETER (INCHES): 0.5
PITOT COEFFICIENT: 0.84
CONTROL BOX (NAME, dH, GAMMA): EHS
GAS COMPOSITION: CO2% 6 O2% 13 SO2%: —

PT. #		DGM Vol (FT3)	dP (IN H20)	dH (IN H20)	STACK (DEG F)	PROBE (deg F)	DGM IN (deg F)	DGM OUT (deg F)	OVEN (deg F)	IMP or XAD (deg F)	VACUUM (IN HG)	OXYGEN (dry) %	NOTES
1		398.33	0.03	0.6	1326		62	61	250		3	20.8	9.987
	5	400.48	0.03	0.59	1342		63	61	250		3	14.2	
	10	402.42	0.03	0.57	1329		63	61	250		5	14.3	
	15	404.52	0.03	0.56	1330		64	61	250		5	14.3	
2	20	406.60	0.03	0.55	1338		65	61	250		5	14.3	
	25	408.67	0.03	0.55	1344		65	62	250		5	14.3	
	30	410.76	0.03	0.55	1325		65	62	250		5	14.3	
	35	412.82	0.03	0.55	1335		65	62	250		5	14.3	
3	40	414.90	0.07	1.4	1433		65	62	250		7	13.5	
	45	417.89	0.07	1.4	1432		67	62	250		7	13.9	6.838
	50	420.90	0.07	1.4	1430		67	62	250		7	13.9	
	55	424.25	0.07	1.2	1417		68	63	250		7	14.0	
4	60	427.23	0.07	1.2	1447		68	63	250		7	13.4	
	65	430.14	0.07	1.3	1459		69	63	250		7	13.5	
	70	433.14	0.07	1.3	1452		68	63	250		7	13.6	
	75	436.10	0.07	1.3	1460		68	63	250		7	13.6	
5	80	438.99	0.06	1.0	1376		69	63	250		7	14.2	
	85	441.74	0.06	1.0	1377		68	63	250		7	14.2	
	90	444.48	0.06	1.1	1378		68	63	250		7	14.2	
	95	447.30	0.06	1.1	1380		68	63	250		7	14.2	
6	100	450.00	0.04	0.80	1316		68	63	250		7	15.3	
	105	452.47	0.04	0.80	1318		69	63	250		7	15.2	
	110	454.80	0.04	0.80	1322		68	63	250		7	15	
	115	457.41	0.04	0.80	1320		68	63	250		7	15	
	120	459.83											

INITIAL L.C.: 0.01 @ 15 "Hg
FINAL L.C. 0.005 @ 10 "Hg

CONSOLE OPERATOR:

1 OF 2

WSP

ISOKINETIC SAMPLING, FIELD DATA SHEET

JOB NUMBER:
DATE: Sept. 13, 2025
COMPANY: Baffinland
SOURCE: MR
TEST NO.: ORG-3 TRAV-2
STARTUP TIME: 12:33 FINISH TIME: 14:53

STATIC PRESSURE (IN H20): BAR. P. ("HG):
ASSUMED MOISTURE VOL. %:
NOZZLE DIAMETER (INCHES):
PITOT COEFFICIENT:
CONTROL BOX (NAME, dH, GAMMA):
GAS COMPOSITION: CO2% O2% SO2%:

PT. #		DGM Vol (FT3)	dP (IN H20)	dH (IN H20)	STACK (DEG F)	PROBE (deg F)	DGM IN (deg F)	DGM OUT (deg F)	OVEN (deg F)	IMP or XAD (deg F)	VACUUM (IN HG)	OXYGEN (mV)	NOTES
1		460.14	0.04	0.75	1394		64	63	230		5	20.9	10.025
	5	462.41	0.04	0.75	1417		66	63	230		5	13.8	
	10	464.96	0.04	0.73	1419		66	63	230		6	13.7	
	15	467.26	0.04	0.72	1420		67	63	230		6	14.1	
2	20	469.62	0.06	1.0	1428		68	63	230		6	14.2	
	25	472.35	0.06	1.0	1426		68	63	230		6	13.9	
	30	475.10	0.06	1.0	1410		68	64	230		6	14	
	35	477.88	0.06	1.0	1419		69	64	230		6	14.1	
3	40	480.65	0.07	1.2	1410		69	64	230		6	14.4	
	45	483.55	0.07	1.2	1432		69	64	230		6	14.5	
	50	486.53	0.07	1.2	1426		67	64	230		6	14.5	
	55	489.51	0.07	1.2	1438		69	64	230		6	14.5	
4	60	492.43	0.07	1.2	1427		69	65	230		6	14.6	
	65	495.39	0.07	1.2	1425		69	65	230		6	14.4	
	70	498.38	0.07	1.2	1431		69	65	230		6	14.5	
	75	501.35	0.07	1.2	1433		69	65	230		6	14.4	
5	80	504.31	0.07	1.2	1426		69	65	230		6	14.5	
	85	507.30	0.07	1.2	1435		69	65	230		6	14.4	
	90	510.30	0.06	1.0	1434		70	65	230		6	14.6	
	95	513.05	0.06	1.0	1424		70	65	230		6	14.6	
6	100	515.79	0.05	0.97	1464		70	65	230		6	14.5	
	105	518.50	0.05	0.95	1423		70	65	230		6	14.5	
	110	521.17	0.05	0.95	1427		70	65	230		6	14.5	
	115	523.81	0.05	0.95	1422		70	65	230		6	14.5	
	120											21.1	10.075

INITIAL L.C.: 0.01 @ 15 "Hg
FINAL L.C. 0.01 @ 10 "Hg

CONSOLE OPERATOR:

wsp

WSP Canada Inc

TEST NO.: MR Hg - 1

JOB NUMBER: CA0053800.5171

DATE: Sept 11, 2025

COMPANY: Baffinland

SOURCE: Mary River

STACK DIAMETER:

	Contents	Tare Wt. g	Final Wt. g	Difference, g
IMPINGER 1	100 ml H_2SO_4 / KMnO4	537	588	51
IMPINGER 2	100 ml H_2O_2 / KMnO4	575	585	10
IMPINGER 3	EMPTY	550	551	1
IMPINGER 4	SG	926	932	6
IMPINGER 5				
IMPINGER 6				
IMPINGER 7				
IMPINGER 8				
IMPINGER 9				
Total				68

	Filter ID	Filter Tare, g	Filter Final, g
FILTER			

NOTES:

ISOKINETIC SAMPLING, FIELD DATA SHEET

JOB NUMBER:
DATE: Sept. 11, 2025
COMPANY: Rutland
SOURCE: MR EW
TEST NO.: Hg-1 TRAV-1
STARTUP TIME: 7:39 FINISH TIME: 8:39

STATIC PRESSURE (IN H20): -0.10 BAR. P. ("HG): 30.5
ASSUMED MOISTURE VOL. %: 9.5
NOZZLE DIAMETER (INCHES): 0.375
PITOT COEFFICIENT: 0.84
CONTROL BOX (NAME, dH, GAMMA): ESUS
GAS COMPOSITION: CO2% 6 O2% 13 SO2%: 0

PT. #		DGM Vol (FT3)	dP (IN H20)	dH (IN H20)	STACK (DEG F)	PROBE (deg F)	DGM IN (deg F)	DGM OUT (deg F)	OVEN (deg F)	IMP or XAD (deg F)	VACUUM (IN HG)	OXYGEN (mV)	NOTES
1		29.01	0.02	0.12	1246		47	47	250		2	20.7	9842
	5	30.01	0.02	0.10	1368		49	48	250		2	11.2	5544
2	10	30.92	0.02	0.10	1408		49	49	250		2	8.9	4488
	15	31.81	0.02	0.10	1416		50	49	250		2	9.1	start logging at 7:51 am
3	20	32.70	0.09	0.48	1442		51	50	250		2	7.9	
	25	34.53	0.09	0.47	1453		52	50	250		2	9.8	
4	30	36.36	0.09	0.47	1464		53	51	250		2	9.9	
	35	38.23	0.06	0.30	1367		54	51	250		2	11.1	5494
5	40	39.38	0.05	0.25	1351		54	51	250		2	12	
	45	41.17	0.05	0.21	1364		55	52	250		2	11.9	
6	50	42.55	0.06	0.30	1409		55	52	250		2	11.7	
	55	44.03	0.06	0.30	1387		56	52	250		2	11.9	
	60	45.57											
	65												
	70												
	75												
	80												
	85												
	90												
	95												
	100												
	105												
	110												
	115												
	120												

INITIAL L.C.: 0.001 @ 15 "Hg
FINAL L.C. @ "Hg

CONSOLE OPERATOR: AZ

1 OF 2

WSP

ISOKINETIC SAMPLING, FIELD DATA SHEET

JOB NUMBER:
DATE: Sept. 11, 2025
COMPANY: Baffinland
SOURCE: MR
TEST NO.: Hg-1 TRAV-2
STARTUP TIME: 8:46 FINISH TIME: 9:46

STATIC PRESSURE (IN H20): BAR. P. ("HG):
ASSUMED MOISTURE VOL. %:
NOZZLE DIAMETER (INCHES):
PITOT COEFFICIENT:
CONTROL BOX (NAME, dH, GAMMA):
GAS COMPOSITION: CO2% O2% SO2%:

PT. #		DGM Vol (FT3)	dP (IN H20)	dH (IN H20)	STACK (DEG F)	PROBE (deg F)	DGM IN (deg F)	DGM OUT (deg F)	OVEN (deg F)	IMP or XAD (deg F)	VACUUM (IN HG)	OXYGEN (mV)	NOTES
1		45.57	0.03	0.15	1269		57	54	250		2	20.8	9.870
	5	46.69	0.03	0.15	1277		57	55	250		2	14.2	6.900
2	10	47.81	0.04	0.20	1433		57	55	250		2	12.9	
	15	49.09	0.09	0.45	1417		57	57	250		2	13.0	CO - 5.9
3	20	50.93	0.09	0.45	1405		58	55	250		3	13.1	
	25	52.79	0.09	0.45	1436		60	56	250		3	12.7	
4	30	54.63	0.09	0.45	1428		60	56	250		4	12.7	
	35	56.44	0.05	0.25	1313		60	56	250		3	14.4	
5	40	57.87	0.05	0.25	1320		60	56	250		3	14.6	
	45	59.28	0.05	0.25	1311		60	58	250		3	14.6	
6	50	60.62	0.05	0.25	1315		60	58	250		3	14.7	
	55	62.03	0.03	0.15	1266		61	58	250		3	14.7	
	60	63.13											
	65												
	70												
	75												
	80												
	85												
	90												
	95												
	100												
	105												
	110												
	115												
	120												

INITIAL L.C.: @ "Hg
FINAL L.C. 0.021 @ 5 "Hg

CONSOLE OPERATOR:

wsp

WSP Canada Inc

TEST NO.: MR - Hg - 2

JOB NUMBER:

STACK DIAMETER:

DATE: Sept. 12, 2024

COMPANY: Baffinland

SOURCE: MR EW

	Contents	Tare Wt. g	Final Wt. g	Difference, g
IMPINGER 1	100 ml H_2SO_4/$KMnO_4$	542	598	56
IMPINGER 2	"	567	587	20
IMPINGER 3	Blank	551	552	1
IMPINGER 4	Silica Gel	932	938	6
IMPINGER 5				
IMPINGER 6				
IMPINGER 7				
IMPINGER 8				
IMPINGER 9				
Total				

	Filter ID	Filter Tare, g	Filter Final, g
FILTER			

NOTES:

ISOKINETIC SAMPLING, FIELD DATA SHEET

JOB NUMBER:
DATE: Sept 12, 2025
COMPANY: Baffinland
SOURCE: MR EW
TEST NO.: Hg-2 TRN-1
STARTUP TIME: 8:05 FINISH TIME: 9:01

STATIC PRESSURE (IN H20): -0.14 BAR. P. ("HG): 30.56
ASSUMED MOISTURE VOL. %: 9.5
NOZZLE DIAMETER (INCHES): 0.375
PITOT COEFFICIENT: 0.84
CONTROL BOX (NAME, dH, GAMMA): ES#5
GAS COMPOSITION: CO2% 6 O2% 13 SO2%: —

PT. #		DGM Vol (FT3)	dP (IN H20)	dH (IN H20)	STACK (DEG F)	PROBE (deg F)	DGM IN (deg F)	DGM OUT (deg F)	OVEN (deg F)	IMP or XAD (deg F)	VACUUM (IN HG)	OXYGEN (mV)	NOTES
1		193.07	0.07	0.40	1258		47	47	250		3		
	5	194.78	0.07	0.38	1414		48	47	250		3	10.1	5.312
2	10	196.44	0.07	0.36	1390		50	48	250		4	8.5	
	15	198.06	0.07	0.36	1451		52	49	250		5	7.7	
3	20	199.67	0.10	0.50	1456		52	50	250		7	9.3	
	25	201.58	0.10	0.48	1461		54	51	250		7	9.7	
4	30	203.48	0.10	0.48	1463		55	51	250		7	10	5.034
	35	205.35	0.10	0.48	1487		56	52	250		8	10	
5	40	207.22	0.10	0.48	1493		56	52	250		8	10.2	
	45	209.13	0.05	0.26	1376		57	52	250		8	12.2	
6	50	210.51	0.05	0.26	1350		57	54	250		7	11.8	
	55	211.90	0.05	0.26	1371		57	54	250		7	12.0	
	60	213.25											
	65												
	70												
	75												
	80												
	85												
	90												
	95												
	100												
	105												
	110												
	115												
	120												

INITIAL L.C.: 0.005 @ 15 "Hg
FINAL L.C. @ "Hg

CONSOLE OPERATOR: AZ

1 OF 2

wsp

ISOKINETIC SAMPLING, FIELD DATA SHEET

JOB NUMBER:
DATE: Sept. 12
COMPANY: Bathurst
SOURCE: MR EN
TEST NO.: Hg-2 TRAV-2
STARTUP TIME: 9:08 FINISH TIME: 10:08

STATIC PRESSURE (IN H20): BAR. P. ("HG):
ASSUMED MOISTURE VOL. %:
NOZZLE DIAMETER (INCHES):
PITOT COEFFICIENT:
CONTROL BOX (NAME, dH, GAMMA):
GAS COMPOSITION: CO2% O2% SO2%:

PT. #		DGM Vol (FT3)	dP (IN H20)	dH (IN H20)	STACK (DEG F)	PROBE (deg F)	DGM IN (deg F)	DGM OUT (deg F)	OVEN (deg F)	IMP or XAD (deg F)	VACUUM (IN HG)	OXYGEN (mV)	NOTES
1		213.25	0.02	0.10	1290		55	55	250		5	20.8	9.964
	5	214.16	0.03	0.15	1240		57	55	250		5	14.4	
2	10	215.27	0.03	0.15	1271		57	55	250		7	14.4	
	15	216.36	0.03	0.15	1290		57	56	250		7	14.2	
3	20	217.43	0.04	0.20	1295		57	56	250		7	13.9	
	25	218.68	0.07	0.35	1433		57	56	250		9	13.5	
4	30	220.70	0.07	0.34	1437		58	56	250		9	12.7	
	35	221.93	0.07	0.34	1432		58	56	250		9	12.8	
5	40	223.55	0.07	0.34	1439		58	57	250		10	12.8	
	45	225.17	0.07	0.34	1364		58	57	250		12	13.8	
6	50	226.80	0.06	0.30	1373		58	57	250		12	13.7	
	55	228.30	0.06	0.30	1363		58	57	250		12	13.9	
	60	229.87											
	65												
	70												
	75												
	80												
	85												
	90												
	95												
	100												
	105												
	110												
	115												
	120												

INITIAL L.C.: @ "Hg
FINAL L.C. 9.001 @ 12 "Hg

CONSOLE OPERATOR: AK

2 OF 3

wsp

WSP Canada Inc

TEST NO.: MR-HG-3

JOB NUMBER:

STACK DIAMETER:

DATE: Sept. 13 2025

COMPANY: Baffinland

SOURCE: MR

	Contents	Tare Wt. g	Final Wt. g	Difference, g
IMPINGER 1	H_2SO_4 / $KMnO_4$	539	595	56
IMPINGER 2	"	570	575	5
IMPINGER 3	Blank	555	555	0
IMPINGER 4	SG	938	942	4
IMPINGER 5				
IMPINGER 6				
IMPINGER 7				
IMPINGER 8				
IMPINGER 9				
Total				65

	Filter ID	Filter Tare, g	Filter Final, g
FILTER			

NOTES:

ISOKINETIC SAMPLING, FIELD DATA SHEET

JOB NUMBER:
DATE: Sept. 13, 2025
COMPANY: Raffinland
SOURCE: MR
TEST NO.: Hg-3 TRAV-1
STARTUP TIME: 7:53 FINISH TIME: 8:53

STATIC PRESSURE (IN H20): -0.14 BAR. P. ("HG): 30.53
ASSUMED MOISTURE VOL. %: 9.6
NOZZLE DIAMETER (INCHES): 0.375
PITOT COEFFICIENT: 0.84
CONTROL BOX (NAME, dH, GAMMA): ES#5
GAS COMPOSITION: CO2% 6 O2% 13 SO2%: —

PT. #		DGM Vol (FT3)	dP (IN H20)	dH (IN H20)	STACK (DEG F)	PROBE (deg F)	DGM IN (deg F)	DGM OUT (deg F)	OVEN (deg F)	IMP or XAD (deg F)	VACUUM (IN HG)	OXYGEN (mV)	NOTES
1		366.16	0.04	0.20	1326		49	48	250		4	20.7	9.914
	5	367.34	0.07	0.20	1414		49	49	250		7	9.8	4.978
2	10	368.55	0.09	0.20	1462		50	49	250		8	8.2	
	15	369.72	0.02	0.10	1465		51	49	250		7	8.2	
3	20	370.65	0.02	0.10	1467		52	51	250		7	9.1	
	25	371.51	0.10	0.50	1457		53	51	250		13	9.5	
4	30	373.35	0.10	0.50	1463		54	52	250		13	9.9	
	35	375.30	0.10	0.50	1465		56	52	250		14	10	
5	40	377.26	0.08	0.45	1408		57	53	250		13	11.3	
	45	379.09	0.05	0.25	1366		58	54	250		11	12.2	CO_2 6.4 0.842
6	50	380.53	0.05	0.24	1353		58	54	250		11	12.5	CO 6 1.111
	55	381.88	0.05	0.24	1363		58	55	250		11	12.3	
	60	383.28											
	65												
	70												
	75												
	80												
	85												
	90												
	95												
	100												
	105												
	110												
	115												
	120												

INITIAL L.C.: 0.001 @ 15 "Hg
FINAL L.C. @ "Hg

CONSOLE OPERATOR: AZ

1 OF 3

wsp

ISOKINETIC SAMPLING, FIELD DATA SHEET

JOB NUMBER:
DATE: Sept 13, 25
COMPANY: Bathland
SOURCE: MR
TEST NO.: Hg-3 TRAV-2
STARTUP TIME: 9:04 FINISH TIME: 10:04

STATIC PRESSURE (IN H20): BAR. P. ("HG):
ASSUMED MOISTURE VOL. %:
NOZZLE DIAMETER (INCHES):
PITOT COEFFICIENT:
CONTROL BOX (NAME, dH, GAMMA):
GAS COMPOSITION: CO2% O2% SO2%:

PT. #		DGM Vol (FT3)	dP (IN H20)	dH (IN H20)	STACK (DEG F)	PROBE (deg F)	DGM IN (deg F)	DGM OUT (deg F)	OVEN (deg F)	IMP or XAD (deg F)	VACUUM (IN HG)	OXYGEN (mV)	NOTES
1		383.28	0.03	0.15	1250		57	56	230		2	20.7	9.922
	5	384.41	0.03	0.15	1292		58	56	230		2	14.1	
2	10	385.54	0.03	0.15	1291		58	57	230		2	14.1	
	15	386.67	0.03	0.15	1304		58	57	230		2	14	
3	20	387.77	0.03	0.15	1318		59	57	230		2	14	
	25	388.86	0.03	0.15	1311		60	58	230		2	14	
4	30	389.93	0.07	0.36	1423		60	58	230		2	13.7	
	35	391.56	0.07	0.36	1423		60	58	230		2	12.8	
5	40	393.29	0.04	0.20	1351		61	58	230		2	12.7	
	45	394.55	0.04	0.20	1327		62	59	230		2	14.1	
6	50	395.79	0.03	0.15	1329		62	59	230		2	14.1	
	55	396.93	0.03	0.15	1309		62	60	230		2	14.8	
	60	398.05											
	65												
	70												
	75												
	80												
	85												
	90												
	95												
	100												
	105												
	110												
	115												
	120												

INITIAL L.C.: @ "Hg
FINAL L.C. 0.001 @ 10 "Hg

CONSOLE OPERATOR:

2 OF 2

wsp

PORT

WSP Canada Inc

TEST NO.: ORG -1

JOB NUMBER: CA0053880.5555

DATE: Sept. 7, 2025

COMPANY: Baffinland

SOURCE: Port

STACK DIAMETER:

	Contents	Tare Wt. g	Final Wt. g	Difference, g
IMPINGER 1	XAD	431	473	42
IMPINGER 2	E.G.	628	699	71
IMPINGER 3	BLANK	656	658	2
IMPINGER 4	S.G.	802	837	35
IMPINGER 5				
IMPINGER 6				
IMPINGER 7				
IMPINGER 8				
IMPINGER 9				
Total				150

	Filter ID	Filter Tare, g	Filter Final, g
FILTER			

Resin

BUO2089_007_AA

NOTES:

Vol. 159.12

ISOKINETIC SAMPLING, FIELD DATA SHEET

JOB NUMBER:
DATE: Sept. 7, 2025
COMPANY: Raffinate
SOURCE: Port
TEST NO.: ORG-1 TRAV-1
STARTUP TIME: 13:38 FINISH TIME: 15:38

STATIC PRESSURE (IN H20): -0.14 BAR. P. ("HG): 22.64
ASSUMED MOISTURE VOL. %: 4.5
NOZZLE DIAMETER (INCHES): 0.50
PITOT COEFFICIENT: 0.84
CONTROL BOX (NAME, dH, GAMMA): TES# 5
GAS COMPOSITION: CO2% 4 O2% 16 SO2%:

Ch1- O_2
Ch2 - CO_2
Ch3 - CO

PT. #		DGM Vol (FT3)	dP (IN H20)	dH (IN H20)	STACK (DEG F)	PROBE (deg F)	DGM IN (deg F)	DGM OUT (deg F)	OVEN (deg F)	IMP or XAD (deg F)	VACUUM (IN HG)	OXYGEN (%)	NOTES
1		406.44	0.09	2.0	1184		62	62	220		6	21.3	
	5	409.44	0.09	2.0	1198		64	62	220		7	15.0	7.453 mV
	10	412.95	0.09	1.9	1200		67	63	250		8	15.3	
	15	416.51	0.09	2.0	1197		68	63	250		8	15.4	
2	20	420.15	0.09	2.0	1215		69	63	250		8	15.4	
	25	423.78	0.09	2.0	1215		69	63	250		8	15.5	
	30	427.36	0.09	2.0	1222		70	63	250		8	14.6	
	35	431.00	0.09	2.0	1229		70	63	250		8	14.7	
3	40	434.65	0.09	2.0	1219		71	64	250		9	14.7	
	45	438.25	0.09	2.0	1207		71	64	250		9	14.8	
	50	441.90	0.09	2.0	1208		71	64	250		9	16.1	
	55	445.59	0.09	2.0	1206		70	64	250		10	16.5	
4	60	449.10	0.09	2.0	1210		70	65	250		10	16.0	
	65	452.79	0.09	2.0	1213		70	65	250		10	16.8	
	70	456.38	0.09	2.0	1214		70	65	250		10	16.1	7.968 mV
	75	459.96	0.09	2.0	1230		70	65	250		10	16.2	7.990
5	80	463.54	0.09	2.0	1228		70	65	250		10	16.3	
	85	467.13	0.09	2.0	1222		70	65	250		11	16.2	
	90	470.84	0.09	2.0	1197		70	65	250		11	16.3	
	95	474.55	0.09	2.0	1193		70	65	250		11	17.2	
6	100	478.23	0.06	1.4	1120		71	65	250		11	17.4	
	105	481.34	0.07	1.7	1140		71	65	250		10	17.6	
	110	484.69	0.07	1.7	1152		71	65	250		10	17.0	
	115	488.04	0.07	1.7	1144		69	65	250		10	17.0	
	120	491.34											

INITIAL L.C.: 0.201 @ 15 "Hg
FINAL L.C. @ "Hg

CONSOLE OPERATOR: AZ

1 OF 2

WSP

ISOKINETIC SAMPLING, FIELD DATA SHEET

JOB NUMBER: _____
DATE: _____
COMPANY: _____
SOURCE: Port
TEST NO.: ORG-1 TRAV-2
STARTUP TIME: 15:49 FINISH TIME: 17:49

STATIC PRESSURE (IN H20): _____ BAR. P. ("HG): _____
ASSUMED MOISTURE VOL. %: _____
NOZZLE DIAMETER (INCHES): _____
PITOT COEFFICIENT: _____
CONTROL BOX (NAME, dH, GAMMA): _____
GAS COMPOSITION: CO2% _____ O2% _____ SO2%: _____

PT. #		DGM Vol (FT3)	dP (IN H20)	dH (IN H20)	STACK (DEG F)	PROBE (deg F)	DGM IN (deg F)	DGM OUT (deg F)	OVEN (deg F)	IMP or XAD (deg F)	VACUUM (IN HG)	OXYGEN (mV)	NOTES
1		491.34	0.06	1.5	1147		65	64	250		6	21.5	
	5	494.52	0.06	1.5	1137		67	64	250		6	16.2	
	10	497.63	0.06	1.5	1140		69	64	250		7	16.1	
	15	500.72	0.06	1.5	1146		69	64	250		7	16.2	
2	20	503.81	0.06	1.5	1139		70	65	250		7	16.2	7.970 mV
	25	506.89	0.06	1.5	1162		69	65	250		7	16.1	
	30	509.92	0.06	1.5	1158		69	65	250		7	16.1	
	35	512.97	0.06	1.5	1154		69	65	250		7	16.1	
3	40	516.14	0.06	1.5	1153		69	65	250		7	16.1	
	45	519.30	0.06	1.5	1154		69	65	250		7	16.1	
	50	522.40	0.06	1.5	1148		69	65	250		7	16.2	
	55	525.50	0.06	1.5	1158		69	65	250		7	16.2	
4	60	528.57	0.06	1.5	1159		69	65	250		7	16.0	
	65	532.13	0.06	1.4	1189		69	65	250		7	15.8	7.808
	70	535.20	0.06	1.4	1207		68	64	250		7	15.0	
	75	538.30	0.06	1.4	1196		68	64	250		7	15.0	
5	80	541.32	0.06	1.4	1200		68	64	250		7	15.9	
	85	544.31	0.06	1.4	1200		68	64	250		7	15.8	
	90	547.33	0.06	1.4	1195		68	64	250		8	15.8	
	95	550.44	0.06	1.4	1199		68	64	250		8	15.8	
6	100	553.52	0.06	1.4	1187		68	64	250		8	15.8	
	105	556.54	0.06	1.4	1224		68	64	250		8	14.9	
	110	559.54	0.06	1.4	1198		68	64	250		8	15.0	
	115	562.54	0.06	1.4	1189		68	64	250		8	15.7	
	120	565.56										21.6	10.442

INITIAL L.C.: _____ @ _____ "Hg CONSOLE OPERATOR: _____
FINAL L.C. 0.001 @ 10 "Hg

2 OF 2

WSP

WSP Canada Inc

TEST NO.: PORT ORG - 2

JOB NUMBER:

STACK DIAMETER:

DATE: 8 Sept 2025

COMPANY: BAFFINLAND

SOURCE: PORT INCINERATOR

	Contents	Tare Wt. g	Final Wt. g	Difference, g
IMPINGER 1	XAD	422	552	
IMPINGER 2	E.G.	700	740	
IMPINGER 3	Blank	650	657	
IMPINGER 4	SG	841	856	
IMPINGER 5				
IMPINGER 6				
IMPINGER 7				
IMPINGER 8				
IMPINGER 9				
Total				

	Filter ID	Filter Tare, g	Filter Final, g
FILTER			

XAD BV020989_008_AA (TRAP 8)

NOTES:

ISOKINETIC SAMPLING, FIELD DATA SHEET

JOB NUMBER:
DATE: Sept 8
COMPANY: Baffinland
SOURCE: Port GW
TEST NO.: ORG-2 TRAV-1
STARTUP TIME: 11:51 FINISH TIME: 13:51

STATIC PRESSURE (IN H20): -0.15 BAR. P. ("HG): 30
ASSUMED MOISTURE VOL. %: 4.5
NOZZLE DIAMETER (INCHES): 0.5
PITOT COEFFICIENT: 2.84
CONTROL BOX (NAME, dH, GAMMA): #5
GAS COMPOSITION: CO2% 4 O2% 16 SO2%: —

PT. #		DGM Vol (FT3)	dP (IN H20)	dH (IN H20)	STACK (DEG F)	PROBE (deg F)	DGM IN (deg F)	DGM OUT (deg F)	OVEN (deg F)	IMP or XAD (deg F)	VACUUM (IN HG)	OXYGEN (mV)	NOTES
1		631.76	0.09	2.0	1207		61	59	250		7	20.7	
	5	635.38	0.09	2.0	1216		65	59	250		8	14.4	
	10	639.00	0.09	2.0	1206		66	60	250		9	14.6	
	15	642.52	0.09	2.0	1214		66	60	250		9	14.5	
2	20	646.18	0.09	2.0	1225		68	61	250		10	14.6	
	25	649.83	0.09	2.0	1236		69	61	250		10	14.6	
	30	653.44	0.09	2.0	1225		69	61	250		10	14.7	7.366
	35	657.09	0.09	2.0	1225		67	61	250		10	14.0	
3	40	660.59	0.09	2.0	1231		68	62	250		10	13.8	
	45	664.14	0.10	2.3	1215		68	63	250		14	13.6	
	50	668.03	0.10	2.3	1200		68	63	250		15	14.9	
	55	671.85	0.09	2.1	1200		68	62	250		15	15	
4	60	675.65	0.09	2.1	1191		68	63	250		15	15.2	
	65	679.42	0.09	2.1	1208		68	63	250		15	15.4	
	70	683.18	0.09	2.1	1203		68	63	250		15	15.5	
	75	686.91	0.09	2.1	1207		69	63	250		15.5	15.7	(7.501 mV)
5	80	690.63	0.09	2.1	1215		69	63	250		15	15.6	
	85	694.30	0.09	2.1	1221		69	63	250		15	15.1	
	90	698.04	0.09	2.1	1223		68	65	250		15	15.0	
	95	701.68	0.09	2.1	1235		67	63	250		15	14.9	
6	100	705.33	0.09	2.1	1210		66	63	250		15	14.9	(7.497mV)
	105	708.97	0.09	2.1	1208		66	63	250		15	15.0	
	110	712.56	0.09	2.1	1154		66	63	250		15	16.2	
	115	716.24	0.08	1.9	1157		66	63	250		15	16.5	
	120	719.88											

INITIAL L.C.: 0.001 @ 15 "Hg
FINAL L.C. @ "Hg

CONSOLE OPERATOR: AZ

wsp

ISOKINETIC SAMPLING, FIELD DATA SHEET

JOB NUMBER:
DATE: Sept. 8
COMPANY: Pathfinder
SOURCE: Roof EW
TEST NO.: PRG-2 TRAV-2
STARTUP TIME: 14:18 FINISH TIME: 16:18

STATIC PRESSURE (IN H20): BAR. P. ("HG):
ASSUMED MOISTURE VOL. %:
NOZZLE DIAMETER (INCHES):
PITOT COEFFICIENT:
CONTROL BOX (NAME, dH, GAMMA):
GAS COMPOSITION: CO2% O2% SO2%:

PT. #		DGM Vol (FT3)	dP (IN H20)	dH (IN H20)	STACK (DEG F)	PROBE (deg F)	DGM IN (deg F)	DGM OUT (deg F)	OVEN (deg F)	IMP or XAD (deg F)	VACUUM (IN HG)	OXYGEN (mV)	NOTES
1		729.13	0.07	1.7	1109		64	61	250		7	21.2	10390
	5	732.74	0.07	1.7	1153		68	62	250		7	15.1	
	10	735.80	0.07	1.7	1163		69	62	250		9	15.0	
	15	739.10	0.08	1.9	1158		69	63	250		10	15.9	
2	20	742.81	0.08	1.9	1151		69	63	250		10	16.0	
	25	746.47	0.07	1.7	1151		69	63	250		9	16.5	
	30	750.00	0.07	1.7	1145		69	63	250		9	15.8	7.891
	35	753.30	0.07	1.7	1150		69	63	250		9	15.8	
3	40	756.89	0.07	1.7	1144		69	63	250		9	15.7	
	45	760.20	0.07	1.7	1148		69	63	250		9	15.7	
	50	763.69	0.08	1.9	1147		69	63	250		10	15.8	
	55	767.22	0.08	1.9	1163		69	63	250		10	15.6	
4	60	770.60	0.08	1.9	1168		69	63	250		10	15.5	
	65	774.15	0.08	1.9	1166		69	63	250		10	15.7	
	70	777.70	0.08	1.9	1170		69	63	250		10	15.6	
	75	781.18	0.08	1.9	1168		69	63	250		10	15.6	
5	80	784.69	0.08	1.9	1165		69	63	250		10	15.6	7.806
	85	788.21	0.08	1.9	1163		69	63	250		10	15.6	
	90	791.71	0.08	1.9	1159		69	63	250		10	15.8	
	95	795.23	0.08	1.9	1166		69	63	250		10	15.7	
6	100	798.68	0.08	1.9	1191		69	63	250		10	15.4	
	105	802.23	0.08	1.9	1192		69	67	250		10	15.4	
	110	805.74	0.08	1.9	1186		69	63	250		10	15.4	
	115	809.25	0.08	1.9	1181		69	63	250		10	15.5	
	120	812.81										21.2	

INITIAL L.C.: 0.005 @ 15 "Hg
FINAL L.C. @ "Hg

CONSOLE OPERATOR: AZ

2 OF 2

wsp

WSP Canada Inc

TEST NO.: Port ORG-3

JOB NUMBER:

STACK DIAMETER:

DATE: Sept. 9

COMPANY: Bitfinland

SOURCE: Port EW

	Contents	Tare Wt. g	Final Wt. g	Difference, g
IMPINGER 1	XAD	437	558	
IMPINGER 2	EG	~~650~~ 662	698	
IMPINGER 3	Blank	~~799~~ 658	656	
IMPINGER 4	SG	799	814	
IMPINGER 5				
IMPINGER 6				
IMPINGER 7				
IMPINGER 8				
IMPINGER 9				
Total				

	Filter ID	Filter Tare, g	Filter Final, g
FILTER			

NOTES: XAD BU02089 005 AA ✓

BLANK RESIN BU02089_006_AA Trip #6

wsp

ISOKINETIC SAMPLING, FIELD DATA SHEET

JOB NUMBER:
DATE: Sept. 9
COMPANY: Bafinland
SOURCE: Port EW
TEST NO.: ORG-3 TRAV-1
STARTUP TIME: 13:00 FINISH TIME: 15:00

STATIC PRESSURE (IN H20): -0.15 BAR. P. ("HG): 29.87
ASSUMED MOISTURE VOL. %: 4.5
NOZZLE DIAMETER (INCHES): 0.50
PITOT COEFFICIENT: 0.84
CONTROL BOX (NAME, dH, GAMMA): ES#5
GAS COMPOSITION: CO2% 4 O2% 16 SO2%: —

PT. #		DGM Vol (FT3)	dP (IN H20)	dH (IN H20)	STACK (DEG F)	PROBE (deg F)	DGM IN (deg F)	DGM OUT (deg F)	OVEN (deg F)	IMP or XAD (deg F)	VACUUM (IN HG)	OXYGEN (mV)	NOTES
1		863.41	0.07	1.5	1200		62	61	250		5	20.9	
	5	866.64	0.07	1.5	1216		64	61	250		7	14.2	7-074
	10	869.65	0.07	1.6	1197		65	61	250		7	14.3	
	15	872.87	0.07	1.6	1207		66	61	250		7	14.3	
2	20	876.17	0.09	2.0	1172		66	61	250		8	14.8	
	25	879.91	0.09	2.0	1172		66	61	250		8	15	
	30	883.61	0.09	2.0	1174		68	61	250		8	15.1	
	35	887.42	0.09	2.0	1191		68	61	250		8	15.1	
3	40	891.19	0.09	2.0	1189		69	62	250		8	15.1	
	45	894.92	0.09	2.0	1176		69	62	250		8	15.4	7-634
	50	898.64	0.09	2.0	1170		70	65	250		8	15.5	
	55	902.30	0.09	2.0	1194		71	63	250		8	15.5	
4	60	905.94	0.10	2.2	1196		71	63	250		10	15.5	
	65	909.90	0.10	2.2	1211		71	67	250		10	14.7	
	70	913.80	0.08	1.8	1147		70	64	250		10	15.3	
	75	917.54	0.08	1.8	1142		70	64	250		10	15.2	
5	80	921.07	0.06	1.4	1123		70	64	250		10	15.2	
	85	924.52	0.06	1.4	1108		69	64	250		10	16.2	
	90	927.66	0.06	1.4	1105		69	64	250		10	16.5	
	95	930.74	0.06	1.4	1119		69	64	250		10	16.6	
6	100	933.84	0.06	1.4	1139		69	64	250		10	16.0	
	105	936.73	0.06	1.4	1123		68	64	250		10	16.0	
	110	939.31	0.06	1.4	1120		68	64	250		10	16.1	
	115	942.95	0.06	1.4	1106		68	64	250		10	16	
	120	946.90											

INITIAL L.C.: 0.001 @ 15 "Hg CONSOLE OPERATOR: AZ
FINAL L.C. @ "Hg 1 OF 2

WSP

ISOKINETIC SAMPLING, FIELD DATA SHEET

JOB NUMBER:
DATE: Sept 9
COMPANY: Baffinland
SOURCE: Port SW
TEST NO.: ORG-3 TRAV-2
STARTUP TIME: 15:15 FINISH TIME: 17:15

STATIC PRESSURE (IN H20): BAR. P. ("HG):
ASSUMED MOISTURE VOL. %:
NOZZLE DIAMETER (INCHES):
PITOT COEFFICIENT:
CONTROL BOX (NAME, dH, GAMMA):
GAS COMPOSITION: CO2% O2% SO2%:

PT. #		DGM Vol (FT3)	dP (IN H20)	dH (IN H20)	STACK (DEG F)	PROBE (deg F)	DGM IN (deg F)	DGM OUT (deg F)	OVEN (deg F)	IMP or XAD (deg F)	VACUUM (IN HG)	OXYGEN (mV)	NOTES
1		946.20	0.07	1.6	1130		67	63	250		7	21.3	10.377
	5	949.50	0.07	1.6	1151		65	63	250		7	15.9	
	10	952.67	0.07	1.6	1147		66	63	250		7	15.8	
	15	956.00	0.07	1.6	1152		68	63	250		7	16.0	
2	20	959.31	0.07	1.6	1146		68	63	250		7	16.0	
	25	962.57	0.07	1.6	1131		68	63	250		7	16.1	
	30	965.88	0.07	1.6	1140		69	63	250		7	16.2	
	35	969.15	0.07	1.6	1147		69	63	250		7	16	7.920
3	40	972.46	0.07	1.6	1146		69	63	250		7	16	
	45	975.71	0.07	1.6	1143		68	63	250		7	16.1	
	50	979.02	0.07	1.6	1145		69	63	250		7	16.1	
	55	982.33	0.07	1.6	1145		69	63	250		7	16.2	
4	60	985.55	0.07	1.6	1143		69	63	250		9	16.1	
	65	988.85	0.08	1.8	1183		69	63	250		10	15.7	
	70	992.31	0.08	1.8	1180		69	63	250		10	15.6	
	75	995.85	0.08	1.8	1184		69	63	250		10	14.9	
5	80	999.55	0.09	2.0	1212		69	63	250		10	15.0	
	85	1003.29	0.09	2.0	1188		69	63	250		10	15.6	
	90	1006.97	0.09	2.0	1193		69	63	250		12	15.6	
	95	1010.66	0.09	2.0	1181		69	63	250		12	15.6	
6	100	1014.32	0.06	1.4	1169		69	63	250		10	15.6	
	105	1017.65	0.06	1.3	1206		69	63	250		12	15.5	7.700
	110	1020.77	0.06	1.3	1204		69	63	250		12	14.6	
	115	1023.81	0.06	1.3	1188		69	63	250		12	15.6	
	120	1026.81										21.3	10.407

INITIAL L.C.: 0.01 @ 15 "Hg
FINAL L.C. 0.09 @ 14 "Hg

CONSOLE OPERATOR: AZ

2 OF 2

PORT

WSP Canada Inc

TEST NO.: Hg - 1

JOB NUMBER: CA0053880.5???

DATE: Sept. 7, 2025

COMPANY: Baffinland

SOURCE: Port

STACK DIAMETER:

	Contents	Tare Wt. g	Final Wt. g	Difference, g
IMPINGER 1	100 ml H_2SO_4/ $KMnO_4$	540	599	59
IMPINGER 2	"	564	574	10
IMPINGER 3	Blank	548	549	1
IMPINGER 4	SG	860	870	10
IMPINGER 5				
IMPINGER 6				
IMPINGER 7				
IMPINGER 8				
IMPINGER 9				
Total				80

	Filter ID	Filter Tare, g	Filter Final, g
FILTER			

NOTES:

49.39 cf = 7.2% H_2O

ch 1 - O_2
ch 2 - CO_2
ch 3 - CO

ISOKINETIC SAMPLING, FIELD DATA SHEET

JOB NUMBER:
DATE: Sept. 7, 2025
COMPANY: Baffinland
SOURCE: Port
TEST NO.: Hg-1 TRAV-1
STARTUP TIME: 11:03 FINISH TIME: 12:03

STATIC PRESSURE (IN H20): -0.10 BAR. P. ("HG): 29.64
ASSUMED MOISTURE VOL. %: 7.5%
NOZZLE DIAMETER (INCHES): 0.375
PITOT COEFFICIENT: 0.84
CONTROL BOX (NAME, dH, GAMMA): ES#5 γ = 1.003 ΔH@ 2.133
GAS COMPOSITION: CO2% 4 O2% 16 SO2%: —

PT. #		DGM Vol (FT3)	dP (IN H20)	dH (IN H20)	STACK (DEG F)	PROBE (deg F)	DGM IN (deg F)	DGM OUT (deg F)	OVEN (deg F)	IMP or XAD (deg F)	VACUUM (IN HG)	OXYGEN (mV)	NOTES (start log @ 10:06)
1		356.70	0.06	0.43	1060		55	53	220		2	20.9	N2 @ 10:07
	5	358.39	0.07	0.50	1074		54	54	220		2	13.9	O2 (-0.4) 0.305 mV
2	10	360.39	0.07	0.50	1076		57	54	220		2	14.1	CO (-0.1) CO2 0.67 mV
	15	362.28	0.07	0.50	1086		58	55	220		2	14.2	
3	20	364.17	0.07	0.50	1100		57	55	220		2	14.4	7.137 mV
	25	366.05	0.07	0.5	1096		60	55	220		2	14.5	
4	30	367.87	0.07	0.5	1101		61	56	220		3	CO-2	0.929 mV
	35	369.83	0.07	0.5	1108		61	57	220		3	CO2-47	0.721 V
5	40	371.74	0.1	0.67	1184		61	57	220		4	13.8	
	45	373.92	0.10	0.67	1185		63	58	220		4	13.8	
6	50	376.13	0.10	0.67	1195		63	58	220		4	14.0	
	55	378.31	0.10	0.67	1189		63	58	220		4	14.0	
	60	380.46											
	65												
	70												
	75												
	80												
	85												
	90												
	95												
	100												
	105												
	110												
	115												
	120												

Actual Time
10:09
(0) vol. 338 m
CO2 @ 10:1
9.8% (1073.4
O2 (-0.4)
0.720 m
CO (0)
0.708 m
CO @ 10:17
95 10.313
Started
Second
log @ 10:5
↓
Changed CO2 from mV to 1-10

INITIAL L.C.: 0.005 @ 15 "Hg
FINAL L.C. @ "Hg

CONSOLE OPERATOR: AZ

1 OF 2

wsp

ISOKINETIC SAMPLING, FIELD DATA SHEET

JOB NUMBER:
DATE: Sept - 7
COMPANY: Suncor
SOURCE: Port
TEST NO.: Hg-1 TRAV-2
STARTUP TIME: 12:12 FINISH TIME: 13:12

STATIC PRESSURE (IN H20): BAR. P. ("HG):
ASSUMED MOISTURE VOL. %:
NOZZLE DIAMETER (INCHES):
PITOT COEFFICIENT:
CONTROL BOX (NAME, dH, GAMMA):
GAS COMPOSITION: CO2% O2% SO2%:

PT. #		DGM Vol (FT3)	dP (IN H20)	dH (IN H20)	STACK (DEG F)	PROBE (deg F)	DGM IN (deg F)	DGM OUT (deg F)	OVEN (deg F)	IMP or XAD (deg F)	VACUUM (IN HG)	OXYGEN (mV)	NOTES
1		380.46	0.10	0.67	1207		60	60	220		4		
	5	382.68	0.10	0.66	1222		62	60	220		4	14.5	
2	10	384.85	0.11	0.71	1248		63	60	220		4	13.6	-6.767mV
	15	387.13	0.11	0.70	1221		65	60	220		4	14.2	
3	20	389.40	0.11	0.70	1211		65	64	220		5	14.3	
	25	391.64	0.10	0.65	1219		66	61	221		5	14.2	
4	30	393.81	0.10	0.65	1215		66	61	221		5	14.3	
	35	396.02	0.10	0.65	1200		66	61	220		5	14.4	
5	40	398.18	0.08	0.53	1136		66	61	220		5	14.6	-7.228mV
	45	400.08	0.08	0.53	1124		66	61	220		5	15.5	
6	50	402.03	0.08	0.53	1126		65	62	220		5	15.5	-7.662mV
	55	404.14	0.08	0.53	1123		65	62	220		5	15.7	
	60	406.09											
	65												
	70												
	75												
	80												
	85												
	90												
	95												
	100												
	105												
	110												
	115												
	120												

INITIAL L.C.: 0.99 @ 5 "Hg
FINAL L.C. @ "Hg

CONSOLE OPERATOR:

wsp

WSP Canada Inc

TEST NO.: PORT HS-2

JOB NUMBER:

STACK DIAMETER:

DATE: Sept. 8

COMPANY: Raffinate

SOURCE: Port EW

	Contents	Tare Wt. g	Final Wt. g	Difference, g
IMPINGER 1	$KMnO_4$ / H_2SO_4	562	635	73
IMPINGER 2	" "	549	561	12
IMPINGER 3	BLANK	550	552	2
IMPINGER 4	SG.	870	882	12
IMPINGER 5				
IMPINGER 6				
IMPINGER 7				
IMPINGER 8				
IMPINGER 9				
Total				99

	Filter ID	Filter Tare, g	Filter Final, g
FILTER	—		

NOTES:

8.1% H_2O

ISOKINETIC SAMPLING, FIELD DATA SHEET

JOB NUMBER:
DATE: Sept. 8 2025
COMPANY: Baffinland
SOURCE: EW
TEST NO.: Rg-2 TRAV-1
STARTUP TIME: 9:10 FINISH TIME: 10:10

STATIC PRESSURE (IN H20): -0.16 BAR. P. ("HG): 30.0
ASSUMED MOISTURE VOL. %: 7.5
NOZZLE DIAMETER (INCHES): 0.375
PITOT COEFFICIENT: 0.84
CONTROL BOX (NAME, dH, GAMMA): BS#5
GAS COMPOSITION: CO2% 4 O2% 16 SO2%: -

PT. #		DGM Vol (FT3)	dP (IN H20)	dH (IN H20)	STACK (DEG F)	PROBE (deg F)	DGM IN (deg F)	DGM OUT (deg F)	OVEN (deg F)	IMP or XAD (deg F)	VACUUM (IN HG)	OXYGEN (mV)	NOTES
1		574.45	0.11	0.78	1116		47	47	250		5	20.3	10.003 mV
	5	576.82	0.12	0.80	1221		49	47	250		5	11.8	6030
2	10	579.20	0.10	0.70	1095		52	48	250		5	12.9	6.555
	15	581.44	0.10	0.70	1119		53	49	250		5	CO2-58-0.802	
3	20	583.68	0.10	0.68	1121		54	49	251		5	CO-1-0.801	
	25	585.92	0.11	0.73	1176		55	50	256		5	13.6	6.827
4	30	588.24	0.11	0.70	1189		55	50	250		5	13	
	35	590.51	0.11	0.70	1192		57	51	250		6	13	
5	40	592.77	0.11	0.68	1195		56	51	250		6	13.2	
	45	595.00	0.11	0.68	1204		56	52	250		6	12.8	6.478
6	50	597.23	0.11	0.66	1219		56	52	250		6	12.9	
	55	599.45	0.11	0.66	1218		57	52	250		6	12.9	
	60	601.61											
	65												
	70												
	75												
	80												
	85												
	90												
	95												
	100												
	105												
	110												
	115												
	120												

INITIAL L.C.: 0.001 @ 15 "Hg
FINAL L.C. @ "Hg

CONSOLE OPERATOR: AZ

wsp

ISOKINETIC SAMPLING, FIELD DATA SHEET

JOB NUMBER:
DATE: Sept 8
COMPANY:
SOURCE: Rort EW
TEST NO.: Hg-2 TRAV-2
STARTUP TIME: 10:22 FINISH TIME: 11:22

STATIC PRESSURE (IN H20): BAR. P. ("HG):
ASSUMED MOISTURE VOL. %:
NOZZLE DIAMETER (INCHES):
PITOT COEFFICIENT:
CONTROL BOX (NAME, dH, GAMMA):
GAS COMPOSITION: CO2% O2% SO2%:

PT. #		DGM Vol (FT3)	dP (IN H20)	dH (IN H20)	STACK (DEG F)	PROBE (deg F)	DGM IN (deg F)	DGM OUT (deg F)	OVEN (deg F)	IMP or XAD (deg F)	VACUUM (IN HG)	OXYGEN (mV)	NOTES
1		601.61	0.07	0.35	1222		51	52	250		5	20.4	
	5	603.21	0.07	0.34	1229		54	52	250		5	12.8	
2	10	605.04	0.07	0.44	1230		55	52	250		6	12.9	
	15	606.84	0.11	0.70	1224		56	53	250		6	13.3	
3	20	609.07	0.11	0.70	1228		57	54	250		6	13.6	
	25	611.31	0.10	0.65	1180		58	54	250		6	12.9	6.533
4	30	613.52	0.09	0.60	1147		58	54	250		6	14.4	
	35	615.63	0.09	0.58	1148		59	55	250		6	14.4	
5	40	617.78	0.09	0.58	1139		60	55	250		6	14.4	
	45	619.78	0.09	0.58	1147		60	55	250		7	14.4	
6	50	621.90	0.09	0.58	1143		60	55	250		7	14.1	
	55	623.99	0.09	0.58	1151		61	57	250		7	14.5	
	60	626.04											
	65												
	70												
	75												
	80												
	85												
	90												
	95												
	100												
	105												
	110												
	115												
	120												

INITIAL L.C.: @ "Hg
FINAL L.C. 0.041 @ 10 "Hg

CONSOLE OPERATOR:

2 OF 2

wsp

PORT

WSP Canada Inc

TEST NO.: Hg-3

JOB NUMBER:

STACK DIAMETER:

DATE: Sept. 9, 2025

COMPANY: Baffinland

SOURCE: Port EW

	Contents	Tare Wt. g	Final Wt. g	Difference, g
IMPINGER 1	100ml $KMnO_4$ / H_2SO_4	562	617	55
IMPINGER 2		548	572	24
IMPINGER 3	Blank	552	553	1
IMPINGER 4	SG	882	892	10
IMPINGER 5				
IMPINGER 6				
IMPINGER 7				
IMPINGER 8				
IMPINGER 9				
Total				90

	Filter ID	Filter Tare, g	Filter Final, g
FILTER			

NOTES:

7.6% H_2O

ISOKINETIC SAMPLING, FIELD DATA SHEET

JOB NUMBER:
DATE: Sept. 9
COMPANY: Baffinland
SOURCE: Port EW
TEST NO.: Hg3 TRAV-1
STARTUP TIME: 10:38 FINISH TIME: 11:38

STATIC PRESSURE (IN H20): -0.15 BAR. P. ("HG): 29.87
ASSUMED MOISTURE VOL. %: 7.5
NOZZLE DIAMETER (INCHES): 0.375
PITOT COEFFICIENT: 0.84
CONTROL BOX (NAME, dH, GAMMA): BAS
GAS COMPOSITION: CO2% 4 O2% 16 SO2%: -

PT. #		DGM Vol (FT3)	dP (IN H20)	dH (IN H20)	STACK (DEG F)	PROBE (deg F)	DGM IN (deg F)	DGM OUT (deg F)	OVEN (deg F)	IMP or XAD (deg F)	VACUUM (IN HG)	OXYGEN (mV)	NOTES
1		813.14	0.13	0.88	1192		44	48	250		7	20.6	10.057mV
	5	815.65	0.08	0.55	1066		48	48	250		7	12.7	6.357
2	10	817.69	0.10	0.69	1106		49	48	250		6	13.4	6.756
	15	819.97	0.10	0.68	1124		51	49	250		6	13.5	
3	20	822.15	0.10	0.67	1128		52	49	250		7	O2 - 5.6 - 0.785 CO - 1 - 0.825	
	25	824.30	0.10	0.67	1136		52	49	250		7	Nova turned off	11:02 - 11:04
4	30	826.64	0.12	0.76	1213		55	51	250		7	13.7	6.851
	35	828.99	0.12	0.76	1204		57	52	250		7	12.6	
5	40	831.41	0.12	0.75	1207		58	52	250		7	12.9	
	45	833.77	0.10	0.65	1197		59	53	250		7	12.6	
6	50	835.90	0.10	0.65	1222		60	55	250		7	12.8	
	55	838.15	0.10	0.64	1212		60	55	250		7	12.6	
	60	840.29											
	65												
	70												
	75												
	80												
	85												
	90												
	95												
	100												
	105												
	110												
	115												
	120												

INITIAL L.C.: 0.005 @ 14 "Hg
FINAL L.C. @ "Hg

CONSOLE OPERATOR: AE

1 OF 2

WSP

ISOKINETIC SAMPLING, FIELD DATA SHEET

JOB NUMBER:
DATE: Sept 9
COMPANY: Biffinland
SOURCE: Port Fen
TEST NO.: Hg-3 TRAV-2
STARTUP TIME: 11:45 FINISH TIME: 12:45

STATIC PRESSURE (IN H20): BAR. P. ("HG):
ASSUMED MOISTURE VOL. %:
NOZZLE DIAMETER (INCHES):
PITOT COEFFICIENT:
CONTROL BOX (NAME, dH, GAMMA):
GAS COMPOSITION: CO2% O2% SO2%:

PT. #		DGM Vol (FT3)	dP (IN H20)	dH (IN H20)	STACK (DEG F)	PROBE (deg F)	DGM IN (deg F)	DGM OUT (deg F)	OVEN (deg F)	IMP or XAD (deg F)	VACUUM (IN HG)	OXYGEN (mV)	NOTES
1		840.29	0.04	0.26	1170		57	55	250		5	20.6	10064
	5	841.69	0.04	0.25	1202		59	56	250		6	13.5	6735
2	10	843.05	0.11	0.70	1229		60	57	250		6	13.4	6673
	15	845.26	0.11	0.70	1209		61	57	250		6	13.6	6808
3	20	847.54	0.11	0.68	1247		62	58	250		7	12.8	
	25	849.80	0.12	0.80	1203		62	58	250		7	13.8	
4	30	852.19	0.09	0.60	1144		64	58	250		7	14.3	
	35	854.31	0.09	0.58	1140		64	60	250		7	14.5	
5	40	856.41	0.08	0.54	1113		64	60	250		7	14.8	
	45	858.42	0.08	0.52	1121		64	60	250		7	14.9	7369
6	50	860.39	0.08	0.54	1048		64	60	250		7	15.4	
	55	861.80	0.04	0.24	1043		64	60	250		7	15.4	
	60	863.15											
	65												
	70												
	75												
	80												
	85												
	90												
	95												
	100												
	105												
	110												
	115												
	120												

INITIAL L.C.: @ "Hg CONSOLE OPERATOR:
FINAL L.C. 3.201 @ 10 "Hg 2 OF 2

WSP

Appendix D

Calibration Sheets

DRY GAS METER CALIBRATION FORM

Reference Meter ID:	91-871546	Ref Gamma:	0.99300
Meter to be Calibrated ID:	20035550	ES#4 Purple	
Barometric Pressure:	29.55	Operator:	RFB
Date:	15-Jan-25		
Room Temperature:	68 °F		

Delta H in H2O	**Ref DGM** Volume Start, cf	**Ref DGM** Volume Finish, cf	**Ref DGM** Temp °F	**DGM** Volume Start, cf	**DGM** Volume Finish, cf	**Temp** In °F	**Temp** Out °F	**Time** Seconds	**Ref DGM** Gamma	min	sec	millisec
0.50	0.5	6.5	67	66.41	72.25	56.0	55.0	1061	0.99300	17	41	36
1.0	7	13	69	72.80	78.69	63.0	59.0	752	0.99300	13	-29	56
2.0	14	20	70	79.67	85.56	67.0	60.0	538	0.99300	9	-1	-51
4.0	21	28	70	86.40	93.21	71.0	63.0	448	0.99300	7	28	-9
6.0	30	38	71	95.33	103.07	75.0	65.0	409	0.99300	7	-11	25
10.0	41	53	71	6.03	17.53	80.0	69.0	465	0.99300	8	-14	-53

Ref DGM Temp °R	**Ref DGM** Volume Total, Rcf	**Ave. DGM** Temp. °R	**DGM** Volume Total, Rcf	**DGM** Gamma	**Orifice** Coeff.	**Delta H @** in H2O	**Ko**	**1/(Ko^2)**	**CFM**
527.0	5.895	516	5.915	0.997	0.609	2.539	0.602	2.759	0.338
529.0	5.873	521	5.910	0.994	0.608	2.530	0.603	2.754	0.479
530.0	5.862	524	5.896	0.994	0.599	2.610	0.593	2.842	0.666
530.0	6.839	527	6.807	1.005	0.586	2.719	0.582	2.948	0.920
531.0	7.801	530	7.729	1.009	0.594	2.651	0.591	2.867	1.140
531.0	11.702	535	11.499	1.018	0.599	2.611	0.598	2.798	1.477
			Averages	**1.003**	**0.599**	**2.610**	**0.595**	**2.827**	

Prepared By: RFB

*Rcf = 68 deg F, 29.92 "Hg
Adjustment nut: In increases volume reading,decreases Gamma: 1/2 turn = 2%

160 Traders Blvd. East
Unit 3
Mississauga, ON
L4Z 3K7
905-568-2929

Appendix E

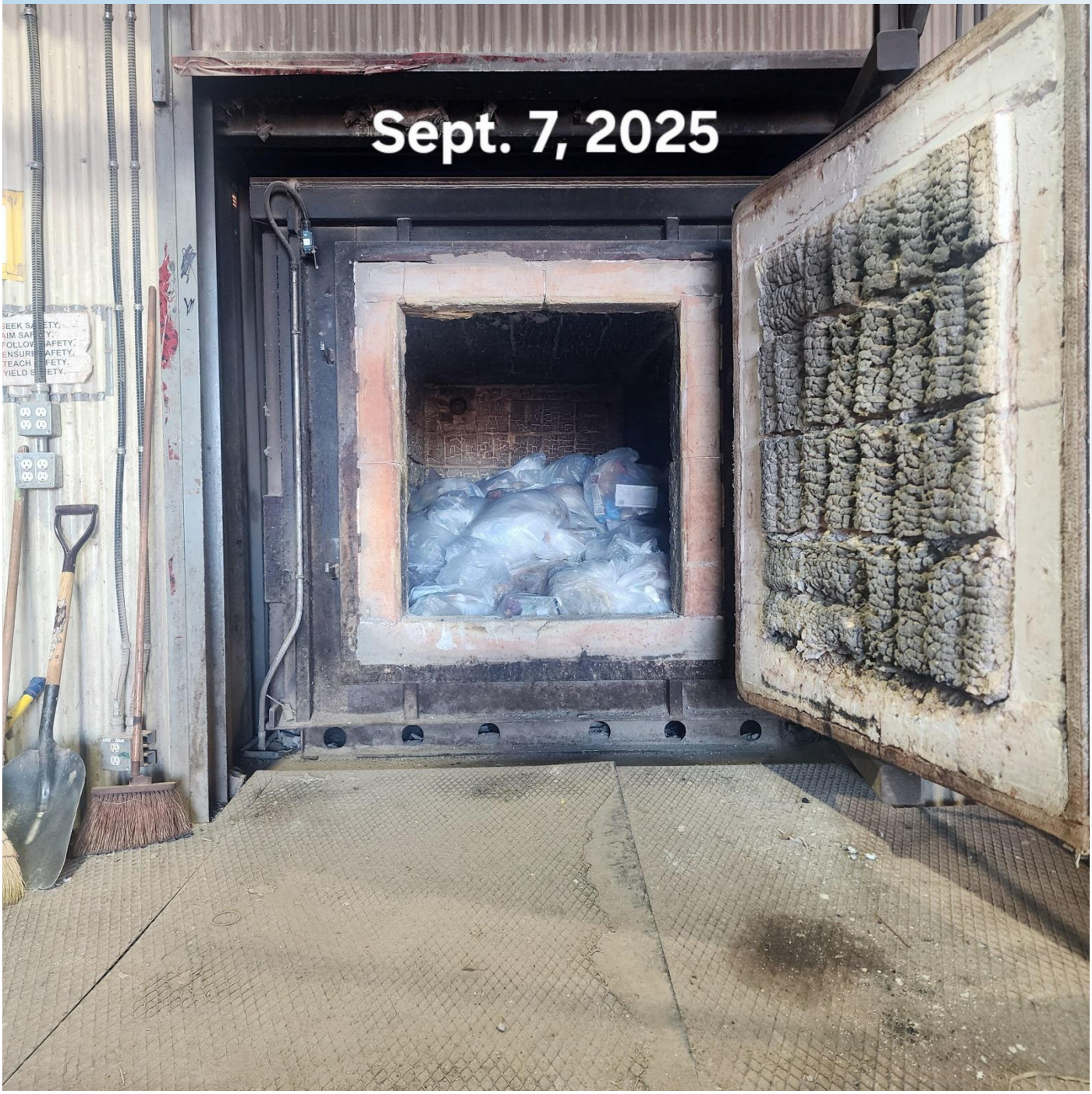
Process Data

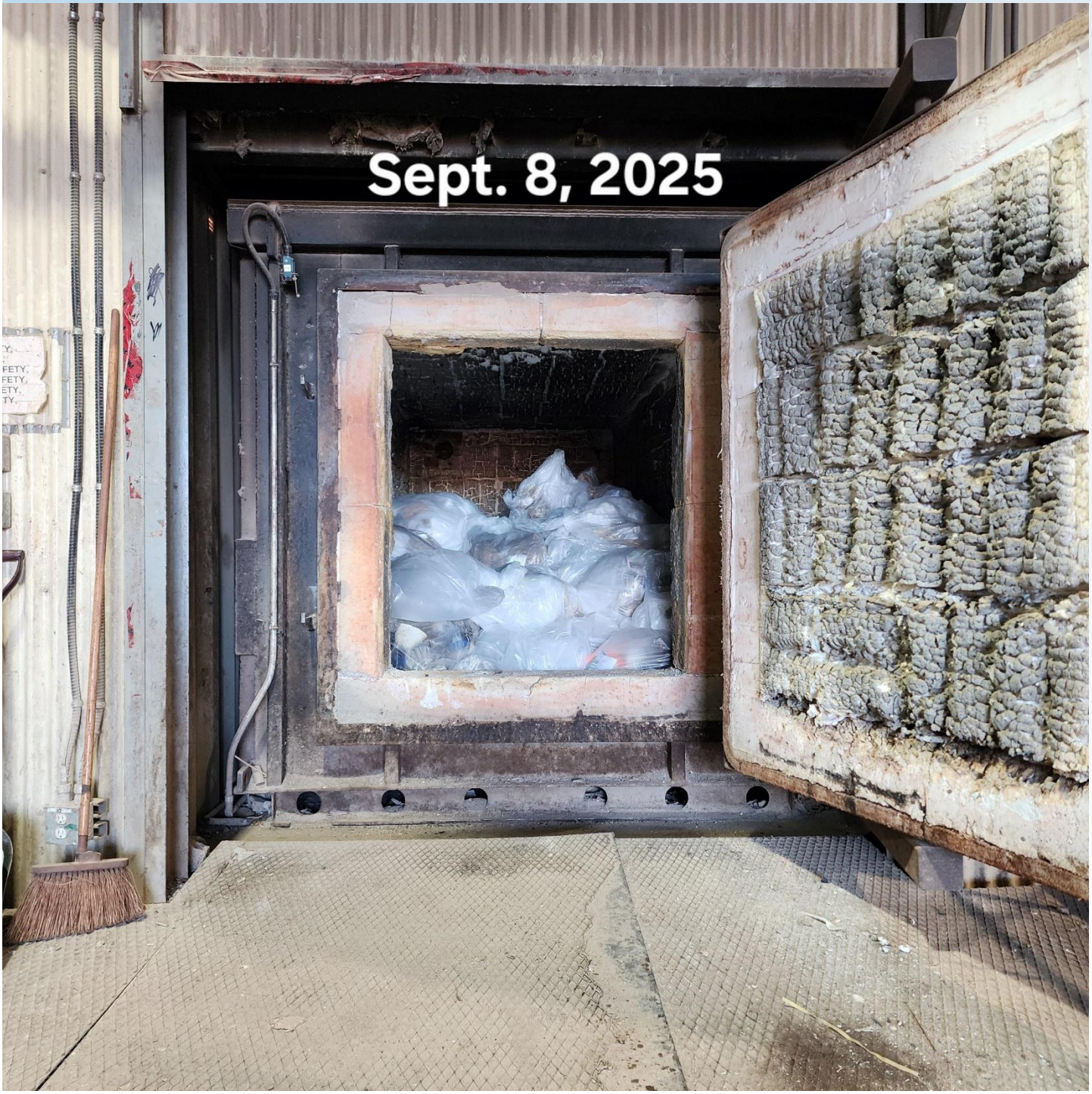
Baffinland 2025 Incinerator Loads

Source	Date	Test	# of Pallets	# of Bags	Other Notes	Estimate	
Milne Port	07-Sep-25	1	0	195		1773	kg
Milne Port	08-Sep-25	2	0	151	12 sludge bags	1373	kg
Milne Port	09-Sep-25	3	0	117	tote of spoiled food	1364	kg
Mary River	11-Sep-25	1	0	185		1682	kg
Mary River	12-Sep-25	2	0	165		1500	kg
Mary River	13-Sep-25	3	0	186		1691	kg

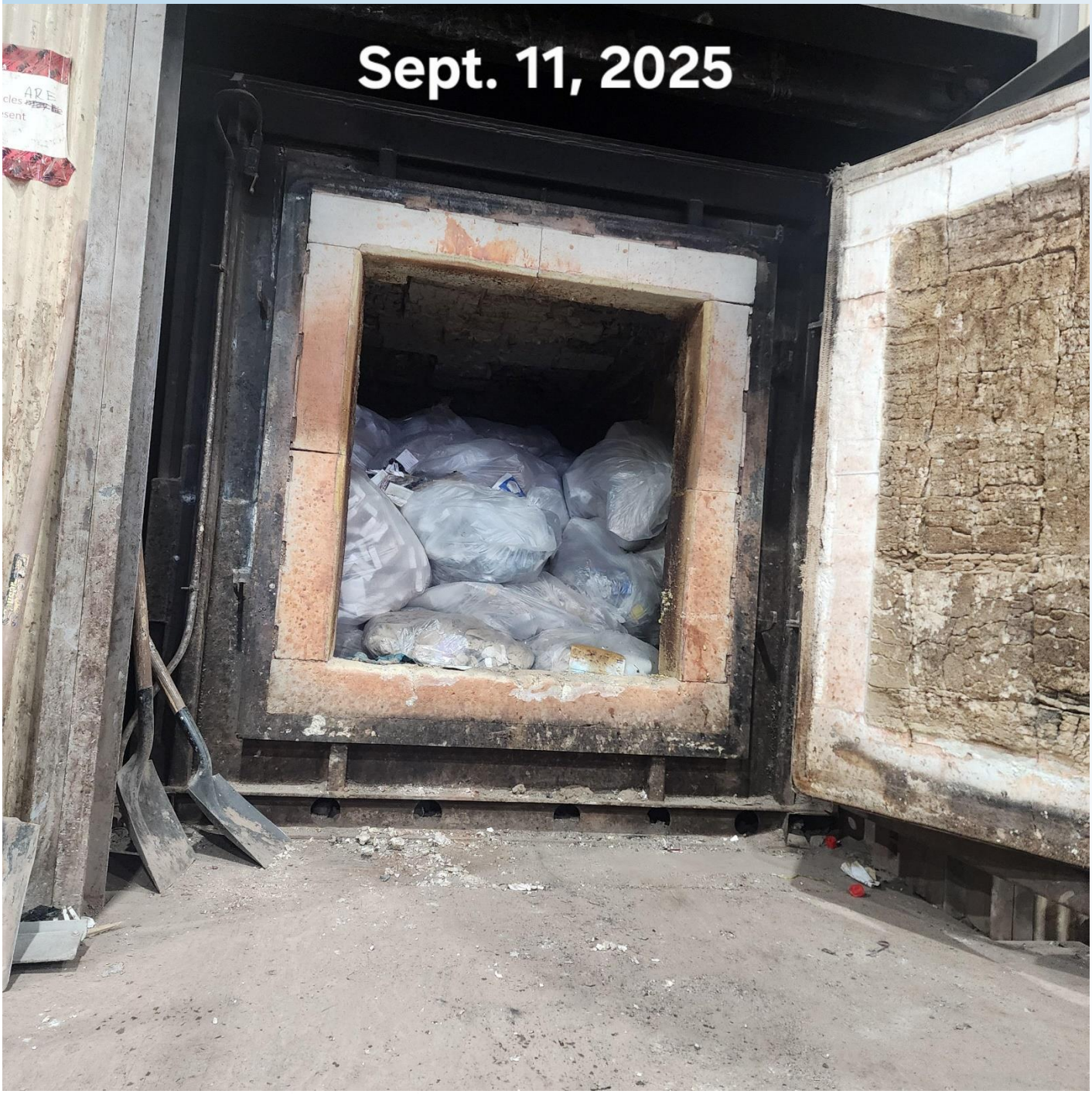
Assumptions:

Pallet	18.2	kg
Bag	9.1	kg
Tote Food Waste	300	kg


Sept. 7, 2025


Sept. 8, 2025


Sept. 9, 2025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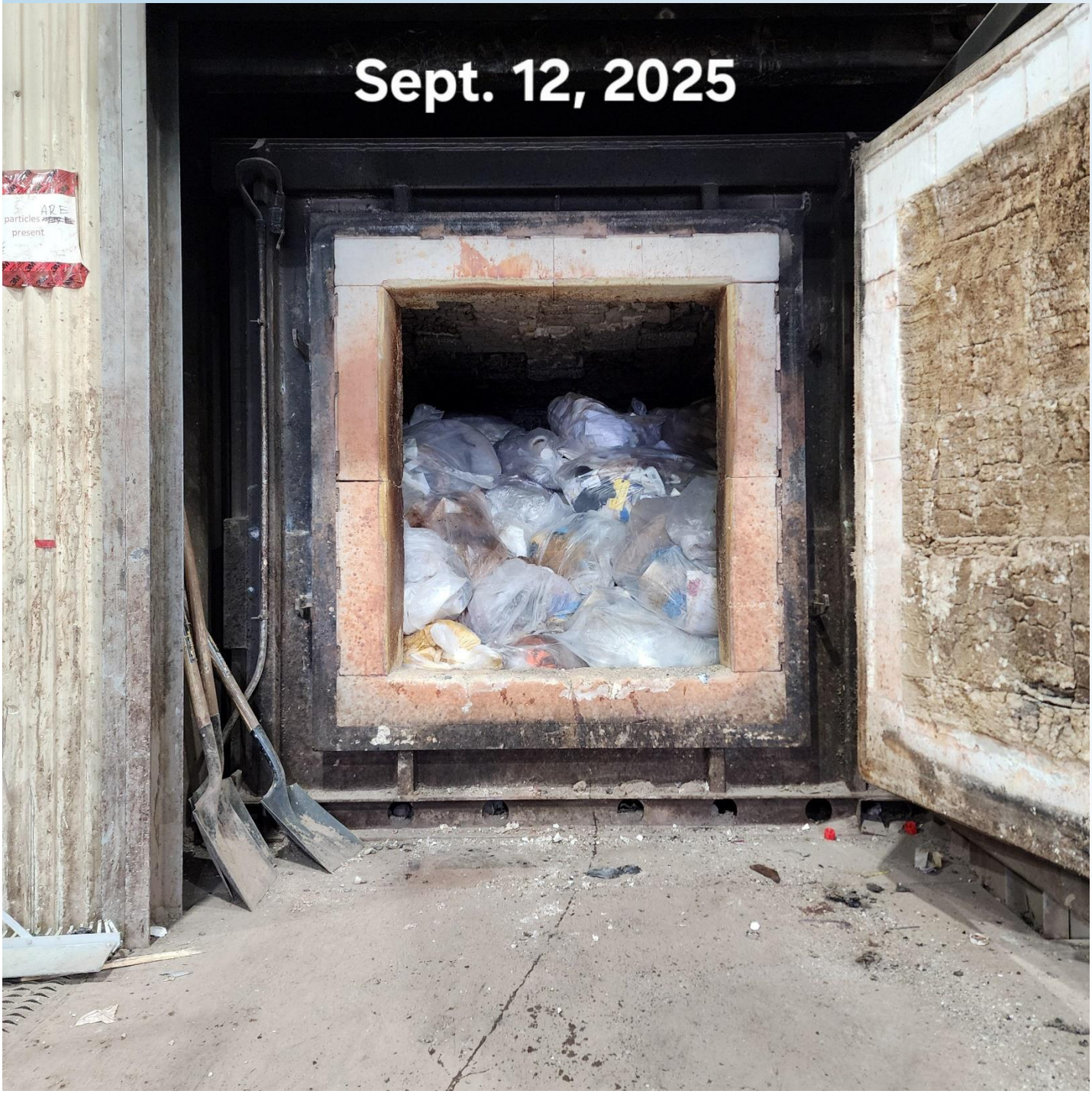
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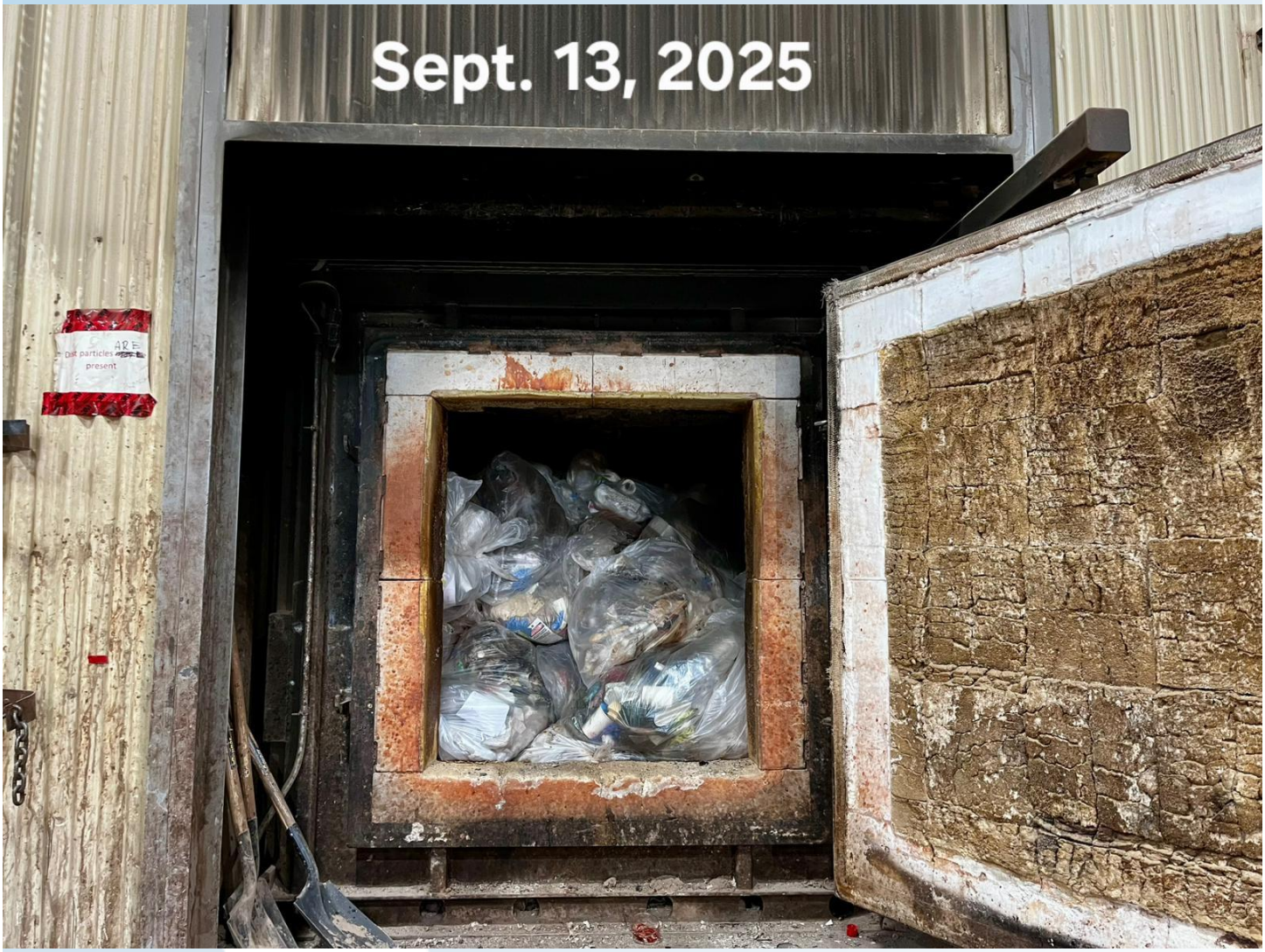
Sept. 13, 2025

Appendix F

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