REPORT

2025 Annual Report

IWB Water Licence N5L8-1846
Former West Channel Staging Site Remediation Project, Inuvialuit Settlement Region, Northwest Territories

Submitted to:

Inuvialuit Water Board

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List of Abbreviations

˚C	degrees Celsius
>	greater than
<	less than
≤	less than or equal to
B(a)P	benzo(a)pyrene
BTEX	benzene, toluene, ethylbenzene, xylene
$CaCO_3$	calcium carbonate
CoC	contaminant of concern
EC	electrical conductivity
ECC	Environment and Climate Change
EGT	E. Gruben's Transport Ltd.
ERT	Emergency Response Team
ETC	enhanced thermal conduction
GNWT	Government of Northwest Territories
GNWT ENR	Government of Northwest Territories Environment and Natural Resources
GOC	Government of Canada
IC	Incident Commander
IWB	Inuvialuit Water Board
kg	kilogram
km	kilometre
L	litres
m	metres
m^3	cubic metres
mbgs	metres below ground surface
mg/L	milligrams per litre
n/a	not applicable
NHS	National Hydrological Service Government of Canada
NWT	Northwest Territories
PAH	polycyclic aromatic hydrocarbons
PHC	petroleum hydrocarbon

ppb	parts per billion
ppm	parts per million
PVC	polyvinyl chloride
QA/QC	quality assurance/quality control
RAP	Remedial Action Plan
Shell	Shell Canada Limited
SNP	Surveillance Network Program
SQO	soil quality objectives
TPH	total petroleum hydrocarbon
TSS	total suspended solids
UTV	utility-terrain vehicle
WSP	WSP Canada Inc.

1.0 INTRODUCTION

This 2025 Annual Report provides the required information in fulfillment of Water Licence N5L8-1846 (the Licence) granted by the Inuvialuit Water Board (IWB) to Shell Canada Limited (Shell). The Licence is associated with the remediation, reclamation and monitoring activities (the Project) at the former West Channel staging site (the Site). The Site is approximately 35 kilometres (km) northwest of Aklavik in the Inuvialuit Settlement Region, Northwest Territories (NWT). The site location is presented in Figure A1, historical infrastructure in Figure A2 and ice road for winter access in Figure A3 (Appendix A).

This report documents the methods and results of the remediation activities conducted at the Site from 1 January to 31 December 2025 (hereafter referred to as the 2025 field season), as per the requirements outlined in the Licence Part B: General Condition 2, items A through O.

1.1 Summary of Work Completed in 2025

The 2025 field season included continuing ex-situ soil treatment using enhanced thermal conduction (ETC) to treat petroleum hydrocarbon-impacted (PHC-impacted) soils. The program commenced on 1 January 2025 and extended through to 14 October 2025, the last day of on-site activities in 2025. Site photos are presented in Appendix B.

The following tasks were completed during the 2025 field season:

- successfully completed on-site ETC treatment of approximately 15,200 cubic metres (m^3) of PHC-impacted soil to concentrations below the IWB-approved site-specific soil quality objectives (SQO) and used as backfill for the excavations;
- no site work completed during the shoulder season (mid-April to mid-June 2025) with a skeleton crew (i.e., barge masters, Site Supervisor) remaining on the Wurmlinger barge camp to keep it warm;
- de-mobilized the Wurmlinger barge camp from the winter anchor location following spring freshet and mobilized the 802-barge camp to the summer anchor location (Figure A4, Appendix A);
- installed eight new groundwater monitoring wells (MW25-01 to MW25-08) and replaced two thermistors (T-1R and T-2R) (Figure A4, Appendix A);
- completed 61 hand-augered boreholes to depths between 0.15 and 0.40 metres below ground surface (mbgs) in areas of the Site to assess potential cross-contamination of the surficial soil during remediation activities (Figure A4, Appendix A);
- transported hazardous and non-hazardous waste and sewage, as needed, for off-site disposal at approved facilities;
- installed a replacement tripod/game tower that had been removed for the remediation (Figure A4, Appendix A); and
- rough graded the Site and final demobilization using boats and barges in October 2025.

1.2 Future Work to be Completed

The proposed following tasks may be completed in the summer of 2026.

- Complete final Site grading and spreading of previously cut vegetation.

- Download data from the thermistors, monitor and sample the groundwater monitoring wells.
- Remove swamp mats temporarily stored at the Site.
- Complete additional site reclamation (if required) and monitoring activities as per the IWB-approved Reclamation, Closure and Monitoring Plan (WSP 2024c).
- No camps will be established, and work will be completed as day trips from Inuvik or Aklavik.

2.0 PART B – 2.A FRESHWATER USAGE

The freshwater volumes obtained from all sources and usage for the Project operations during the 2025 field season are described in the following sections and summarized in Table A.

Site Activities

Over the course of the 2025 field season, freshwater was obtained from the West Channel Surveillance Network Program (SNP) Station 1846-1, water withdrawal at the point of intake as per Annex 1 of the Licence. Between January and December 2025, a total of 881 m^3 of river water were used for site activities such as melting ice buildup, dust control, and soil hydration after treatment (Table A).

Barge Camp

The Wurmlinger barge camp obtained freshwater from the West Channel SNP Station 1846-1 for use in the toilets. Between January and April 2025, the Wurmlinger barge camp utilized 531 m^3 of river water. The Wurmlinger barge camp was demobilized in June 2025 and replaced by the 802-barge camp, which did not use any river water (Table A).

Summary

In summary, 1,412 m^3 of freshwater was drawn from the West Channel in 2025 and this water was used for Wurmlinger barge camp toilets, dust management control and hydration of treated soil prior to use as backfill in the excavations. The 2025 field season spanned 280 days with an average usage of 5.0 m^3 of freshwater per day. The highest single day withdrawal volume was 40 m^3 on 12 and 23 August 2025. The 2025 water use fees were paid to the IWB on 21 May 2025.

Table A: Freshwater Usage at the Site for the 2025 Field Season

Source	Month	Total (m^3)	Annual Total (m^3)
West Channel, SNP Station 1846-1, Site Activities	January 2025	0	881
	February 2025	0	
	March 2025	0	
	April 2025	3	
	May 2025	0	
	June 2025	0	
	July 2025	269	
	August 2025	444	

Source	Month	Total (m^3)	Annual Total (m^3)
	September 2025	165	
	October 2025	0	
	November 2025	0	
	December 2025	0	
West Channel, SNP Station 1846-1, Wurmlinger Toilets	January 2025	148	531
	February 2025	116	
	March 2025	160	
	April 2025	101	
	May 2025	0	
	June 2024	5	
	July 2024	0	
	August 2024	0	
	September 2024	0	
	October 2024	0	
	November 2024	0	
	December 2024	0	

In addition to the freshwater drawn from the West Channel, 364 m^3 of potable water was supplied to the 802-barge camp from the Town of Inuvik drinking water facility.

3.0 PART B – 2.B SEWAGE AND GREYWATER DISPOSAL

During the 2025 field season, sewage and greywater stemming from the Project operations were temporarily stored in a sewage storage tank on the Wurmlinger and 802-barge camps. When the sewage storage tanks reached capacity, the contents of the storage tanks were transported and disposed of at the Inuvik Sewage Lagoon. Sewage was removed by truck during the winter months and supply barge during the summer months for a total sewage volume of 951 m^3.

A summary of the sewage and greywater removed from the Site and transported to the Inuvik Sewage Lagoon is presented in Table B.

Table B: Sewage and Greywater stemming from the Project during the 2025 Field Season

Source	Disposal Location	Month	Total (m^3)	Annual Total (m^3)
Barg camp sewage tank	Inuvik Sewage Lagoon	January 2025	121	951
		February 2025	142	
		March 2025	215	
		April 2025	96	
		May 2025	0	
		June 2025	0	
		July 2025	111	
		August 2025	119	
		September 2025	110	
		October 2025	36	
		November 2025	0	
		December 2025	0	

4.0 PART B – 2.C NON-HAZARDOUS WASTE STORAGE AND REMOVAL

The non-hazardous domestic waste (e.g., camp garbage, food waste, recyclables, cardboard) stemming from the Project operations was stored in bins, supersacks and pallets within a secured area of the Wurmlinger or 802-barge camps. Non-hazardous waste was removed from the barge camps regularly throughout the 2025 field season by truck (winter) or supply barge (summer) and disposed of at the Inuvik Solid Waste Disposal Facility for a total non-hazardous waste amount of 11,210 kilograms (kg). Broken lateral pipping (5,200 kg) removed from the Site in August 2025 was disposed of at the Northwind Industries Yard in Inuvik.

Some non-hazardous, domestic, combustible waste was burned in the on-board Wurmlinger barge camp incinerator (CY-1020-FA incinerator manufactured by Westland Environmental Services Inc.). A total of 2,049 kg of non-hazardous waste was incinerated between January and April 2025. The incinerator ash was securely bagged for temporary on-board storage and subsequent off-site disposal (see Section 5.0).

The Wurmlinger barge camp was demobilized in June 2025 and replaced with the 802-barge camp, which did not have an on-board incinerator for burning non-hazardous waste.

A summary of the non-hazardous waste removed from the Site and transported to the Inuvik Solid Waste Disposal Facility or burned in the camp incinerator is presented in Table C.

Table C: Non-Hazardous Waste Removed from the Site during the 2025 Field Season

Type of Waste	Disposal Location	Month	Total (kg)	Annual Total (kg)
Camp garbage, food waste, recycling, cardboard	Inuvik Solid Waste Disposal Facility	January 2025	0	11,210
		February 2025	0	
		March 2025	0	
		April 2025	0	
		May 2025	0	
		June 2025	0	
		July 2025	855	
		August 2025	6,735	
		September 2025	3,620	
		October 2025	0	
		November 2025	0	
		December 2025	0	
	Wurmlinger barge camp incinerator	January 2025	510	2,049
		February 2025	604	
		March 2025	580	
		April 2025	355	
		May 2025	0	
		June 2025	0	
		July 2025	0	
		August 2025	0	
		September 2025	0	
		October 2025	0	
		November 2025	0	
		December 2025	0	
Broken lateral piping	Northwind Industries Yard, Inuvik NT - scrap yard	August 2025	5,200	5,200

5.0 PART B – 2.D HAZARDOUS WASTE STORAGE AND REMOVAL

Solid hazardous waste (i.e., spill rags, sock filters, absorbent pads and booms, plastic, polyvinyl chloride (PVC), wood and other waste with residual PHCs) stemming from the Project operations was temporarily stored in lined

soil bags or steel drums within a lockable seacan in the lined and bermed hazardous storage area (Figure A4, Appendix A).

Incinerator ash, from the burning of non-hazardous, domestic, combustible waste on-board the Wurmlinger barge camp (Section 4.0), was sampled on 8 April 2025 and analyzed in a certified laboratory for leachable metals, dioxins and furans following the NWT Guidelines for Hazardous Waste Management (GNWT ENR 2017). The leachable chromium concentration for the composite ash sample was greater than the leachable disposal standards for solid waste (Schedule I, GNWT ENR 2017) and the incinerator ash was classified as hazardous waste and disposed of with other solid hazardous waste described below. Copies of the laboratory certificates of analysis are provided in Appendix C.

A total of 48,175 kg solid hazardous waste was removed from the Site by supply truck (winter) or barge (summer) during the 2025 field season. Solid hazardous waste removed from the Site in March 2025 was disposed of at the Secure Energy, Fox Creek Waste Processing Facility. Solid hazardous waste removed from the Site in July and August 2025 was disposed of at KBL Environmental in Whitehorse. Solid hazardous waste removed from the Site in October 2025 was disposed of at the Secure Energy, Fox Creek Waste Processing Facility or KBL Environmental in Whitehorse, with some left in a secure location in the Northwind Industries Yard in Inuvik for final disposal at KBL Environmental Whitehorse in 2026.

Liquid hazardous waste (i.e., oil, water, diesel mix) stemming from the Project operations was stored in intermediate bulk container totes within a lockable seacan in the lined and bermed hazardous storage area (Figure A4, Appendix A). A total of 600 kg (0.6 m^3) liquid hazardous waste was removed from the Site by supply barge in August 2025 and temporarily stored at the Northwind Industries Yard, Inuvik, for disposal of in the registered E. Gruben's Transport Ltd. (EGT) oil burner.

A summary of the hazardous waste removed from the Site and transported off site is presented in Table D.

Table D: Hazardous Waste Removed from the Site during the 2025 Field Season

Type of Waste		Disposal Location	Month	Total (kg)	Annual Total (kg)
Solid	Spill rags, used filter socks, absorbent pads and booms, plastic, PVC, wood and other waste with residual PHCs	Secure Energy, Fox Creek Waste Processing Facility	March 2025	400	48,175
		KBL Environmental Whitehorse	August 2025	1,500	
			October 2025[1]	1,075	
		Secure Energy, Fox Creek Waste Processing Facility	October 2025	45,000	
	Incinerator ash	KBL Environmental Whitehorse	July 2025	200	
Liquid	Oil, water, diesel mix	Northwind Industries Yard, Inuvik NWT – waste to be disposed of in the EGT registered oil burner	August 2025	600	600

[1] Waste stored in a secure location in the Northwind Industries Yard in Inuvik for appropriate removal in 2026.

6.0 PART B – 2.E WASTE TEMPORARILY STORED ON SITE AND DISPOSAL PLANS

6.1 On-Site Storage of Non-Hazardous Waste

At the end of the 2025 field season, no non-hazardous waste remained at the Site.

At the end of the 2025 field season, 274 swamp mats were temporarily stored at the Site to be removed during the summer 2026 activities for potential re-use elsewhere.

6.2 On-Site Storage of Hazardous Waste

At the end of the 2025 field season, no hazardous waste remained at the Site.

7.0 PART B – 2.F CONTAMINATED SOIL STORAGE AND REMOVAL

During the 2025 field season, approximately 15,200 m^3 of PHC-contaminated soil was treated through ETC (Section 9.0). Approximately 2.5 m^3 (ex-situ volume; 3,750 kg) of excavated surface soil contained concentrations of naturally occurring barite exceeding the applicable guidelines and was considered non-treatable. The barite soil was placed into poly lined soil bags and stored in the lined and bermed hazardous storage area (Figure A4, Appendix A). The barite soil was removed from the Site by barge in October 2025 and disposed of at KBL Environmental in Whitehorse with some left in a secure location in the Northwind Industries Yard in Inuvik for final disposal at KBL Environmental Whitehorse in 2026.

No contaminated soil remained at Site at the end of the 2025 field season awaiting future off-site disposal.

8.0 PART B – 2.G CONTAMINATED WATER STORAGE AND REMOVAL

During the 2025 field season, approximately 0.6 m^3 (600 kg) of liquid hazardous waste (i.e., oil, water, diesel mix) was collected at the Site, stemming from the Project operations. This volume of impacted water was reported in Section 5, Part D, Hazardous Waste Storage and Removal, and summarized in Table D.

9.0 PART B – 2.H TREATED SOIL AND BACKFILL LOCATIONS

During the 2025 field season, approximately 15,200 m^3 of PHC-contaminated soil was excavated from the Site for ex-situ treatment through ETC, for a total remediation volume of 23,400 m^3 (2024 and 2025). By 27 September 2025, soil treatment to polycyclic aromatic hydrocarbon (PAH) and PHC concentrations less than the SQOs in accordance with the approved Remedial Action Plan (RAP; WSP 2024a) was complete and the treated soil was used to backfill excavations as summarized in Table E and presented in Figure A4 (Appendix A). Treated backfill volumes in Table E have been estimated based on surveyed stockpiles volumes post-treatment. Treated soil volumes are lower than those excavated as a result of soil moisture loss during treatment.

Table E: Treated Soil from Ex-Situ ETC Used as Backfill

Backfill Location	Approximate Treated Backfill Volume (m^3)
Excavation A	11,750
Excavation B	n/a
Excavation C	n/a
Excavation D	2,660

Backfill Location	Approximate Treated Backfill Volume (m^3)
Excavation E	320

Note: n/a – not applicable, backfilled in 2024

10.0 PART B – 2.I SURVEILLANCE NETWORK PROGRAM REPORT

10.1 Introduction

The SNP monitoring was designed and implemented as part of the Project to collect and analyze water quality samples as described in the Licence Terms and Conditions and Annex 1: Surveillance Network Program. In fulfilling the requirement of Part B – 2.I, this section details the findings of the SNP.

The SNP comprised eight sampling stations. Details of each station are provided in Table F and discussed individually in Section 10.2.

Table F: Inuvialuit Water Board Water Licence N5L8-1837 Surveillance Network Program Summary

Station Number	Station Description	Sampling Frequency	Parameters Sampled	Discharge Quality Criteria
1846-1	Water withdrawal at the point of intake in West Channel	Periodically through field season	Benzene Toluene Ethylbenzene Acenaphthene Anthracene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benzo(a)anthracene B(a)P TPH Total ammonia Nitrate Nitrite Total lead Total mercury TSS pH	No discharge. Intake from West Channel was sampled for baseline concentrations only.
1846-2	Discharge from soil treatment cells	Prior to discharge to the terrestrial environment	Benzene Toluene Ethylbenzene Acenaphthene Anthracene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benzo(a)anthracene B(a)P TPH Total ammonia Nitrate Nitrite Total lead	0.370 mg/L 0.002 mg/L 0.090 mg/L 0.0058 mg/L 0.000012 mg/L 0.00004 mg/L 0.003 mg/L 0.0011 mg/L 0.0004 mg/L 0.000025 mg/L 0.000018 mg/L 0.000015 mg/L 5 mg/L To be determined[(a)] 3.0 mg NO_3-N/L 0.06 mg NO_2-N/L 0.001 to 0.007[(b)]
1846-3	Discharge from excavated area	Prior to discharge to the terrestrial environment		
1846-4	Discharge from untreated soil storage area (i.e., untreated soil temporarily stored prior to transportation to approved contaminated soil disposal facility)	Prior to discharge to the terrestrial environment		
1846-5	Discharge from contaminated excavated soil storage area (i.e., contaminated soil staged for remediation)	Prior to discharge to the terrestrial environment		

Station Number	Station Description	Sampling Frequency	Parameters Sampled	Discharge Quality Criteria
1846-6	Discharge from activated carbon treatment system	After treatment, prior to discharge to the terrestrial environment	Total mercury TSS pH	0.000026 mg/L 30 mg/L[(c)] 6 to 9
1846-7	Discharge from borrow source, at the outlet (if onsite borrow source is utilized)	Prior to discharge to the terrestrial environment		
1846-8	Discharge of standing surface water from topographic lows	Prior to discharge to the terrestrial environment		

Notes: B(a)P – benzo(a)pyrene; ECC – Environment and Climate Change; mg/L – milligrams per litre; TPH – total petroleum hydrocarbon; TSS – total suspended solids

[(a)] To be determined maximum concentration based on the temperature and pH as per the Canadian Council of Ministers of the Environment Water Quality Guidelines for the Protection of Aquatic Life.

[(b)] When hardness is ≤60 mg/L calcium carbonate ($CaCO_3$), maximum lead concentration is 0.001 mg/L. When hardness is >60 mg/L and <180 mg/L $CaCO_3$, maximum lead concentration is $e^{\{1.273[\ln(\text{hardness})] - 0.475\}}$. When hardness is >180 mg/L $CaCO_3$, maximum lead concentration is 0.007 mg/L.

[(c)] Elevated value based on SNP Station 1846-1 analytical results for TSS, as agreed with the IWB and ECC Inspector (Gruben 2024, pers. comm.).

10.2 Surveillance Network Program Laboratory Results

This section addresses Annex 1 Part D of the Licence, section 1(a): laboratory results and analysis of data collected from the SNP; and section 1(b): tabular summaries of information generated under Annex 1 Part B of the SNP in 2025.

SNP water samples were collected as grab samples in accordance with WSP Canada Inc.'s (WSP's) technical procedures for surface water sample collection. Field parameters, including dissolved oxygen, pH, temperature, electrical conductivity (EC) and oxidation-reduction potential were measured during sampling using a Horiba U-52 multiparameter probe meter. Samples were placed in laboratory-supplied containers suitable for the analytes, and, where applicable, the appropriate laboratory-supplied preservative was added to the samples. Samples were provided with unique identification numbers, and the sampling containers were preserved in ice-filled coolers to maintain temperatures below 10 degrees Celsius (°C). Samples were logged onto formal chain-of-custody documents and transported to AGAT Laboratories in Edmonton, Alberta for laboratory analysis.

Summary tables of the laboratory analytical results for the SNP Stations are presented in Tables D1 to D3 (Appendix D). Copies of the laboratory certificates of analysis are provided in Appendix C. The locations of the SNP Stations sampled in 2025, and discharge locations are presented on Figure A4 (Appendix A), and coordinates are provided in Table D4 (Appendix D).

10.2.1 SNP Station 1846-1

Surface water samples were collected from SNP Station 1846-1 (West Channel withdrawal) on 20 June 2025 from the spring intake location and analyzed for the parameters listed in Table F to establish a baseline concentration of parameters for West Channel (Tables D1 to D3; Appendix D). The water was used at the Site for activities such as melting ice buildup, dust control and soil hydration after treatment.

The SNP Station 1846-1 parameter concentrations were less than the Licence discharge quality criteria except for total suspended solids (TSS) on 20 June 2025 (Table D3, Appendix D). This is not an exceedance of the discharge criteria, as these criteria do not apply to the withdrawal of freshwater from West Channel and the water was not discharged. However, the elevated TSS value in June 2025 is likely due to a higher load of suspended

solids reaching the river during ice breakup and high river flow, during which time there is more active erosion of the riverbanks (see Section 10.7 and Figure 1).

10.2.2 SNP Station 1846-2

No water was discharged from this station and, consequently, no samples were taken from the SNP Station 1846-2 (soil treatment cells). Any water from this area was re-directed to the on-site quench tower for evaporation.

10.2.3 SNP Station 1846-3

One sample was collected from SNP Station 1846-3 (excavated area) on 20 June 2025 (Tables D1 to D3; Appendix D), from Excavation A (Table D4, Appendix D).

The SNP Station 1846-3 parameter concentrations were less than the Licence discharge quality criteria (Tables D1 to D3, Appendix D). The analytical results were provided to the ECC Inspector (in compliance with Part D Item 25 of the Licence) in discharge request #16 (Table D5, Appendix D) and approval to discharge to the terrestrial environment was received on 26 June 2025. A total of 405 m^3 of non-treated water was pumped from Excavation A to Discharge 4 (Figure A4, Appendix A) between 28 and 30 June 2025.

10.2.4 SNP Station 1846-4

No water was discharged from this station and, consequently, no samples were taken from the SNP Station 1846-4 (untreated soil storage area). Any water from this area was re-directed to the on-site quench tower for evaporation.

10.2.5 SNP Station 1846-5

No water was discharged from this station and, consequently, no samples were taken from the SNP Station 1846-5 (contaminated excavated soil storage area). Any water from this area was re-directed to the on-site quench tower for evaporation.

10.2.6 SNP Station 1846-6

No water was discharged from this station and, consequently, no samples were taken from the SNP Station 1846-6 (activated carbon treatment system [on-site water treatment plant]). Instead of using the water treatment plant, water was re-directed to the quench tower for evaporation, as per the modification request submitted to the IWB on 2 June 2025 and approved on 6 June 2025.

10.2.7 SNP Station 1846-7

No borrow source was established at the Site in 2025, and, therefore, no water samples were taken from the SNP Station 1846-7 (borrow source).

10.2.8 SNP Station 1846-8

No water was discharged from this station and, consequently, no samples were taken from the SNP Station 1846-8 (topographic lows). Any water from these areas was re-directed to the on-site quench tower for evaporation.

10.3 Water Discharge, Withdrawal, Sewage and Waste Generation

This section addresses Annex 1 Part D of the Licence, 1(b): tabular summaries of information generated under Annex 1 Part C of the SNP in 2025. Tabular summaries, with daily, monthly and annual totals of discharged water, freshwater withdrawn, sewage, non-hazardous waste, hazardous waste, and contaminated soil and water are presented in Tables D5 to D11 (Appendix D) and discussed below.

Non-treated Water Discharge

The source, discharge location and daily, monthly and annual volumes of non-treated water discharged from the Site are summarized in Table D5 (Appendix D).

As described in Section 10.2.3 (SNP Station 1846-3), in June 2025, 405 m^3 of non-treated water from Excavation A was sampled, confirmed to be below Licence discharge quality criteria, and discharged to the terrestrial environment, following approval from the ECC Inspector.

No other non-treated water was discharged in 2025.

Water Treatment Plant Discharge

No water was treated and then discharged from the water treatment plant in 2025.

Quench Tower Water Evaporation

The daily, monthly and annual volumes of water evaporated from the Site using the quench tower are summarized in Table D6 (Appendix D). The quench tower was only utilized in July and August 2025.

Freshwater Withdrawal

The daily, monthly and annual volumes of freshwater withdrawn form West Channel (SNP Station 1846-1) are summarized in in Table D7 (Appendix D), and the monthly and annual volumes are also presented in Table A (Section 2.0). Freshwater was withdrawn from West Channel for site activities (dust control, soil hydration after treatment) and to provide water to the toilets on the Wurmlinger barge camp.

In 2025, a total of 1,412 m^3 of freshwater was withdrawn from the West Channel, at an average withdrawal rate of 5.0 m^3 per day. No other freshwater was withdrawn in 2025. The highest single day withdrawal volume was 40 m^3 on 12 and 23 August 2025.

Sewage

The daily and monthly volumes of sewage generated by the Project and the daily, monthly and annual volumes of sewage disposed of off-site are summarized in Table D8 (Appendix D). The monthly and annual volumes of sewage disposed of off site is also presented in Table B (Section 3.0).

A total of 951 m^3 of sewage from the Site was disposed of at the Inuvik Sewage Lagoon in 2025.

Non-Hazardous Waste

The daily and monthly amounts of non-hazardous domestic waste (e.g., camp garbage, food waste, recyclables, cardboard) generated by the Project and the daily, monthly and annual amounts of non-hazardous waste disposed of off site are summarized in Table D9 (Appendix D). The daily, monthly and annual amounts on non-hazardous domestic waste incinerated on the Wurmlinger barge camp are summarized in Table D9 (Appendix D). The monthly and annual amounts of non-hazardous waste disposed of off site or incinerated on the Wurmlinger barge camp are also presented in Table C (Section 4.0).

In 2025, a total of 16,410 kg of non-hazardous waste was disposed of at the Inuvik Solid Waste Disposal Facility and 2,049 kg of non-hazardous, combustible waste was incinerated on the Wurmlinger barge camp. The incinerator ash was securely bagged for temporary on-board storage and disposed of as hazardous waste.

Hazardous Waste

The daily and monthly amounts of hazardous waste (i.e., spill rags, sock filters, absorbent pads and booms, plastic, PVC, wood and other waste with residual PHCs, incinerator ash, liquid hazardous waste) generated by the Project and the daily, monthly and annual amounts of hazardous waste removed from Site for off-site disposal are summarized in Table D10 (Appendix D). The monthly and annual amounts of hazardous waste removed from Site for off-site disposed are also presented in Table D (Section 5.0).

In 2025, a total of 48,775 kg of hazardous waste was removed from Site and was disposed of at Secure Energy, Fox Creek Waste Processing Facility, KBL Environmental Whitehorse or at the Northwind Industries Yard in Inuvik (disposed of in the EGT registered oil burner). Waste removed from the Site in October 2025 was disposed of at the Secure Energy, Fox Creek Waste Processing Facility or KBL Environmental in Whitehorse, with some left in a secure location in the Northwind Industries Yard in Inuvik for final disposal at KBL Environmental Whitehorse in 2026.

Contaminated Soil and Water

The daily and monthly amounts of contaminated soil (i.e., surface soil with elevated naturally occurring barite concentrations) identified during Project activities and the daily, monthly and annual amounts of barite soil removed from Site for off-site disposed are summarized in Table D11 (Appendix D).

In 2025, a total of 3,750 kg of barite soil was removed from Site and disposed of at KBL Environmental in Whitehorse with some and left in a secure location in the Northwind Industries Yard in Inuvik for final disposal at KBL Environmental Whitehorse in 2026.

The daily and monthly amounts of contaminated water (i.e., oil, water, diesel mix) generated by the Project and the daily, monthly and annual amounts of contaminated water removed from Site for off-site disposal are summarized in Table D11 (Appendix D). The monthly and annual amounts of contaminated water removed from Site for off-site disposal are also presented in Table D (Section 5.0) as liquid hazardous waste.

In 2025, a total of 0.6 m^3 (600 kg) of contaminated water was removed from Site and left in a secure location in the Northwind Industries Yard in Inuvik for disposal of in the registered EGT oil burner.

10.4 Surveillance Network Plan Data Not Collected

This section addresses Annex 1 Part D of the Licence, section 1(c): rationale for any SNP sites where samples were not collected.

Water samples were not collected from SNP Stations 1846-2, 1846-4, 1846-5, 1846-6, 1846-7 and 1846-8 because no water was discharged at these stations and water collected from these locations was re-directed for evaporation by the quench tower (volumes reported in Section 10.3).

10.5 Quality Assurance/Quality Control

This section addresses Annex 1 Part D of the Licence, section 1(d): 10.5 Quality Assurance/Quality Control (QA/QC) results and interpretations.

A QA/QC program for the Project, including the SNP, was implemented to reduce and quantify potential issues introduced during sample collection, handling, shipping and analysis. The program included, but was not limited to, using dedicated sampling equipment, specific identification and labelling procedures, and chain of custody records. The QA/QC program for the Project was implemented as described in the QA/QC Plan (WSP 2024b) that

was submitted to and approved by the Analyst (Glen Hudy, Quality Assurance Officer for Taiga Environmental Laboratories) on 24 June 2024 as per Annex 1 Part B of the Licence, Section 5. A copy of the QA/QC plan and acceptance letter from the Analyst was provided to the IWB in June 2024.

The results of the laboratory QA/QC analyses are presented in the laboratory certificates of analysis in Appendix C. The analyses included method blanks, matrix duplicates, matrix spikes and laboratory control samples.

Due to the number of SNP samples collected (two), no field duplicate SNP samples were collected as part of the 2025 program. One field blank and one trip blank were submitted for benzene, toluene, ethylbenzene, xylenes (BTEX)/PHC Fraction F1 for the water sampling program.

Based on the data quality review, no data quality issues were identified with the SNP sampling program, and one data quality issue was identified with the ash sample. The identified data quality issue did not have a material effect on the overall reliability of the data presented in this report. The laboratory and field QA/QC discussions are presented in Appendix E.

10.6 Interpretations and Calculations

This section addresses Annex 1 Part D of the Licence, Section 1(e): interpretive comments and calculations.

Analytical results for samples collected from the SNP Stations were compared to the Licence discharge criteria. If the parameter concentrations were less than the discharge criteria, the analytical results were provided to the ECC Inspector for approval to release to the terrestrial environment.

In June 2025, the concentration of TSS in the freshwater withdrawn from West Channel (SNP Station 1846-1; Table D3, Appendix D) was 112 mg/L which exceeded the Licence discharge criteria of 30 mg/L. This is not an exceedance of the discharge criteria, as these criteria do not apply to the withdrawal of freshwater from West Channel and the water was not discharged.

The analytical results from the SNP stations were not subject to any calculations.

10.7 Identification of Anomalies and Trends

This section addresses Annex 1 Part D of the Licence, Section 1(f): identification of any anomalies and trends.

Anomalies

No anomalies were identified in the analytical results from the SNP Stations in 2025.

Trends

The potential trend between TSS and water levels was noted in the 2024 Annual Report (WSP 2025).

The TSS from West Channel was only sampled once in 2025, on 20 June 2025, during the spring freshet. The water level in the Mackenzie River was not recorded during this time; however, similar to 2024, it was likely the highest water level during 2025. The higher TSS during this time is likely due to a higher load of suspended solids reaching the river during ice breakup and high river flow, during which time there is more active erosion of the riverbanks.

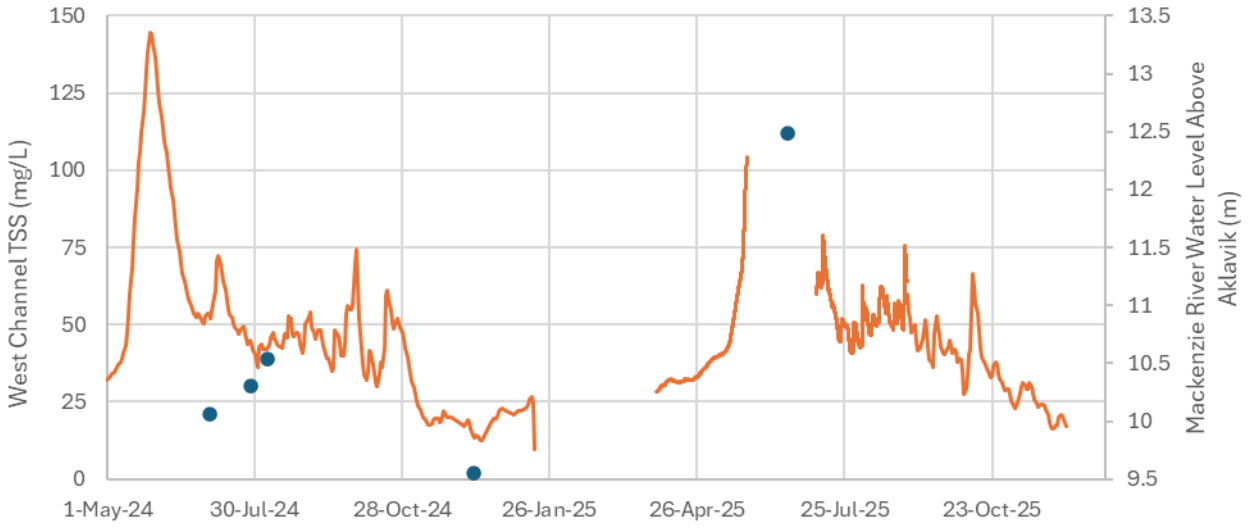

Figure 1: TSS concentration at SNP Station 1846-1 (solid dots) compared to water level (orange line) in the Mackenzie River (50 km upstream from the Site).

No other trends were identified in the analytical results from the SNP Stations in 2025.

11.0 PART B – 2.J RECLAMATION AND CLOSURE ACTIVITIES

11.1 Summary of 2025 Activities

Section 1.1 of this report provides a summary of the activities completed in 2025, including the excavation, treatment and backfilling of approximately 15,200 m^3 of PHC-impacted soils. Sections 10.0 and 12.0 provide details and analytical results of the environmental sampling and monitoring completed as part of those activities in compliance with the Licence. Erosion and sediment control activities completed during the 2025 field season are described below.

11.1.1 Erosion and Sediment Control Activities

The hazardous/potentially hazardous materials storage and handling areas, and the water treatment area, were graded, bermed and lined to mitigate deposition of contaminants into West Channel. Perimeter earthen berms were also constructed around the ETC treatment area, and the soil stockpiling areas to contain surface water and sediment. Additional erosion control measures were installed in other areas of the Site from which surface runoff was expected ahead of spring freshet in 2025 as well as prior to demobilization in October 2025 (i.e., to mitigate surface water/sediment erosion during spring freshet in 2026). The control measures included straw wattles, coconut matting and silt fencing. These measures were placed in multiple layers to ensure that sediment in the runoff would be retained within the Site boundaries. The locations of the emplaced erosion control measures are shown in Figure A4 (Appendix A).

Dust control measures were implemented at the Site and included, during the summer months, the spraying of dusty areas and treated soil piles with water obtained from the West Channel. During the winter months, when it is too cold to use water for dust control, alternative dust control measures were implemented. These included not working with the treated soil piles (i.e., the source of dust during the winter) in conditions when on site recorded windspeeds exceed 20 km per hour and, as much as possible, removing dust that may reach off-site areas using a snow plow and loader. The scraped-up dusty snow was stored and managed on site in a snow storage area.

11.2 Summary of Planned 2026 Work

Section 1.2 of this report provides a summary of the activities planned for 2026, including final site grading, groundwater monitoring and sampling, removal of swamp mats, thermistor data downloading and other visual inspections as per the updated Reclamation, Closure and Monitoring Plan (WSP 2024c).

12.0 PART B – 2.K MONITORING PROGRAMS

12.1 Groundwater Monitoring and Monitoring Well and Thermistor Installation

Between 24 and 26 September 2025, Hiku Drilling Tools Corporation installed eight post-remediation monitoring wells and replaced thermistors T-1 and T-2. Thermistor T-1 was found to be damaged in June 2025 during the remedial program and thermistor T-2 was removed during planned excavation activities in June 2024. The locations of MW25-01 to MW25-08 and T-1R and T-2R are shown in Figure A4 (Appendix A), and the borehole logs are provided in Appendix F. In addition, existing monitoring wells MW22-08, MW23-04 and MW23-05 which were damaged during the remediation work were decommissioned via over-drilling and backfilled with bentonite and sand.

No groundwater monitoring and sampling events occurred in 2025.

12.2 Permafrost Monitoring

Two thermistor sensor strings (T-1 and T-2) were installed at the Site in July 2023 as part of the 2023 summer field program to obtain temperature profiles and interpret the depth to permafrost (Figure A4, Appendix A). Thermistor T-1 was installed in an undisturbed area to a depth of 4 mbgs in the southern portion of the Site and T-2 was installed to 8 mbgs within a former soil treatment area (where vegetation had been cleared and soil excavated in the past). Ten sensors were attached to the T-1 string, with the top sensor placed aboveground and the remaining nine sensors placed at 0.5 m intervals between ground surface and 4 mbgs. Sixteen sensors were attached to the T-2 string, with the top sensor placed aboveground, 13 sensors placed at 0.5 m intervals starting from ground surface to 6 mbgs and the remaining two sensors placed at 7 and 8 mbgs. Each thermistor was connected to a data logger recording temperatures twice a day. The frequency of temperature recording was increased to hourly in July 2024. Thermistors T-1 and T-2 were replaced by T-1R and T-2R in September 2025 (Section 12.2) with the same sensor placement as the original thermistors. Temperature data from T-1R and T-2R were not downloaded in 2025 and the September 2025 to December 2025 data will be reported in the 2026 Annual Report.

Four additional thermistor sensor strings (T-3 to T-6) were installed at the Site between 28 June and 1 July 2024 as part of the pre-remedial activities to obtain temperature profiles and interpret the depth to permafrost during and after the remediation (Figure A4, Appendix A). Thermistor T-3 was installed to a depth of 15 mbgs southwest of the ETC treatment area. Twenty-one sensors were attached to T-3, with the top sensor placed aboveground, five sensors placed at 0.25 m intervals between ground surface and 1 mbgs, eight sensors placed at 0.5 m intervals from 1.5 to 5 mbgs, five sensors placed at 1 m intervals from 6 to 10 mbgs and one sensor placed at 12 mbgs and one sensor at 15 mbgs. Thermistors T-4 to T-6 were installed to a depth of 8 mbgs within the ETC treatment area. Thermistor T-4 was installed in between two treatment cells and T-5 and T-6 were each installed under a treatment cell. Due to the placement of thermistors T-4 to T-6 within the ETC treatment area, a 24 m long and 1 m deep trench was dug to laydown the cables connecting the thermistors to the data loggers located outside the ETC treatment area. The top sensor attached to the T-4 to T-6 thermistors was placed aboveground

near the data loggers, and the next four sensors are recording temperature from within the 1 m deep trench, seven sensors are placed at 0.5 m intervals from 1.0 to 4 mbgs and four sensors are placed at 1 m intervals from 5 to 8 mbgs. Each thermistor was connected to a data logger recording temperatures hourly.

The depth to permafrost is considered as the depth at which the ground temperature is below 0°C throughout the year. The depth to permafrost as recorded by individual temperature sensors only provides a resolution of 0.25, 0.5 or 1 m depending on sensor interval. The true depth to permafrost is between the sensor that records temperature below 0°C throughout the year and the next shallowest sensor. The inferred permafrost depths, based on the sensor that records a temperature below 0°C throughout the year (within a sensor accuracy of ±0.1°C) are presented in Table G.

Table G: Inferred Permafrost Depths from Thermistor Data

Thermistor	Readings Date Interval	Depth of Sensor with Recorded <0°C Condition (mbgs)
T-1 (undisturbed area)	14 July 2023 to 28 June 2025	0.5
T-2 (former soil treatment area)	14 July 2023 to 1 July 2024	3.5
T-3 (west of the ETC treatment area)	3 July 2024 to 27 September 2025	2.0
T-4 (in between ETC cells)	1 July 2024 to 27 September 2025	none
T-5 (under ETC cell)	30 June 2024 to 27 September 2025	none
T-6 (under ETC cell)	29 June 2024 to 27 September 2025	none

In Figures 2 to 7 below, in the left-side plot, the results are plotted as temperature versus depth (presented seasonally for 2025 [February, May, August] where available) and, in the right-side plot, as temperature versus date (for select sensor depths) for thermistors T-1 to T-6, respectively. The depth to permafrost is shallowest at thermistors T-1 (Figure 2) and T-3 (Figure 4). Thermistor T-1 was installed in a background location, away from the warming influence of West Channel and in an area that has not been previously disturbed. Thermistor T-3, while being closer to West Channel, is also in a previously undisturbed area east of the ETC treatment area. The depth to permafrost is deeper at Thermistor T-2 (Figure 3), which was in the previously disturbed area where vegetation had been cleared, and soil excavated in the past. Thermistor T-2 was in the Excavation A footprint and removed 1 July 2024 prior to the start of soil excavation.

At thermistors installed in-between (T-4) and underneath (T-5 and T-6) the ETC cells (Figures 5, 6 and 7), there is no sensor between 1 and 8 mbgs that recorded a temperature below 0°C throughout the measurement period (within a sensor accuracy of ±0.1°C). While the heating of the ETC cells above thermistors T-5 and T-6 appears to be influencing soil temperatures beneath with temperatures of greater than 35°C measured at a depth of 1 mbgs, the warming impact decreases with depth and the temperature is near freezing at the sensors installed at 6 mbgs and deeper.

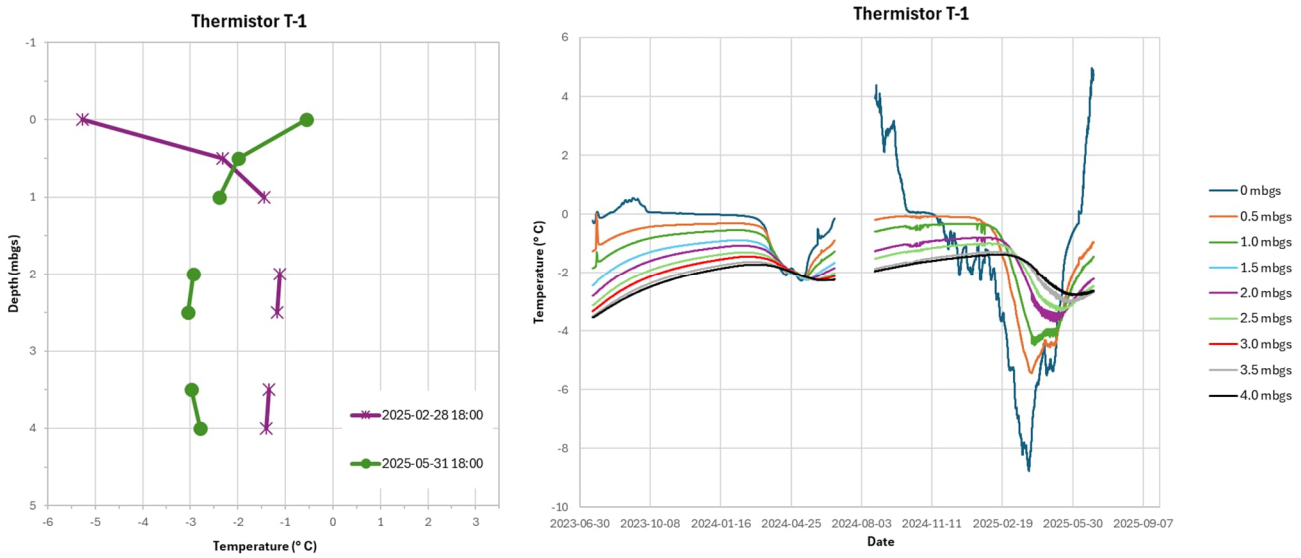

Figure 2: Thermistor T-1 Temperature Readings Between June 2023 and June 2025.

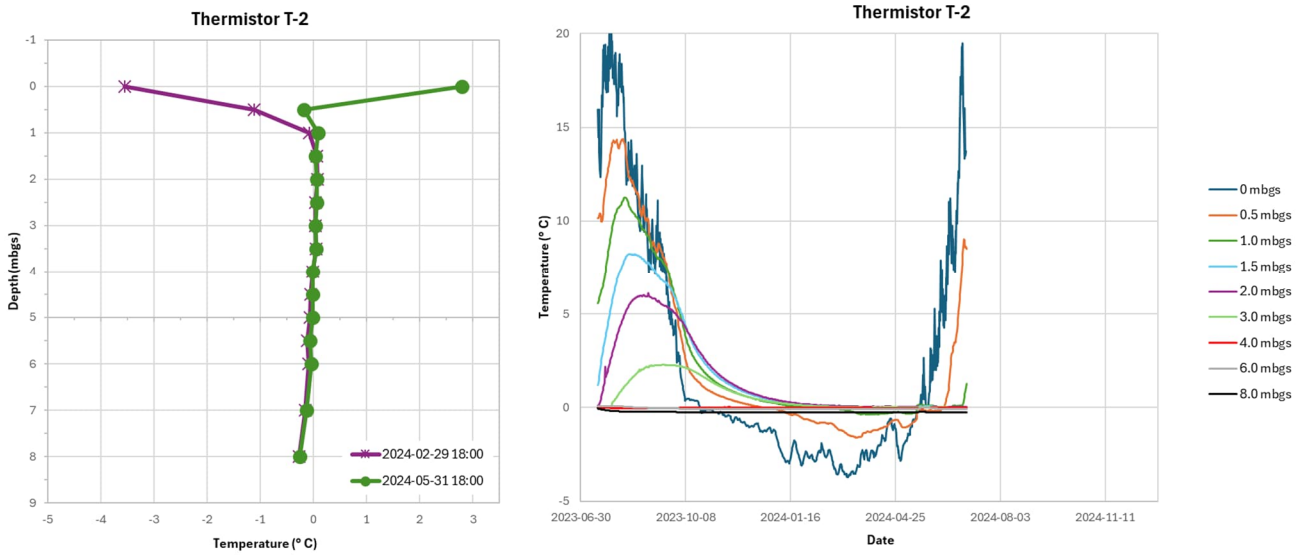

Figure 3: Thermistor T-2 Temperature Readings Between June 2023 and July 2024.

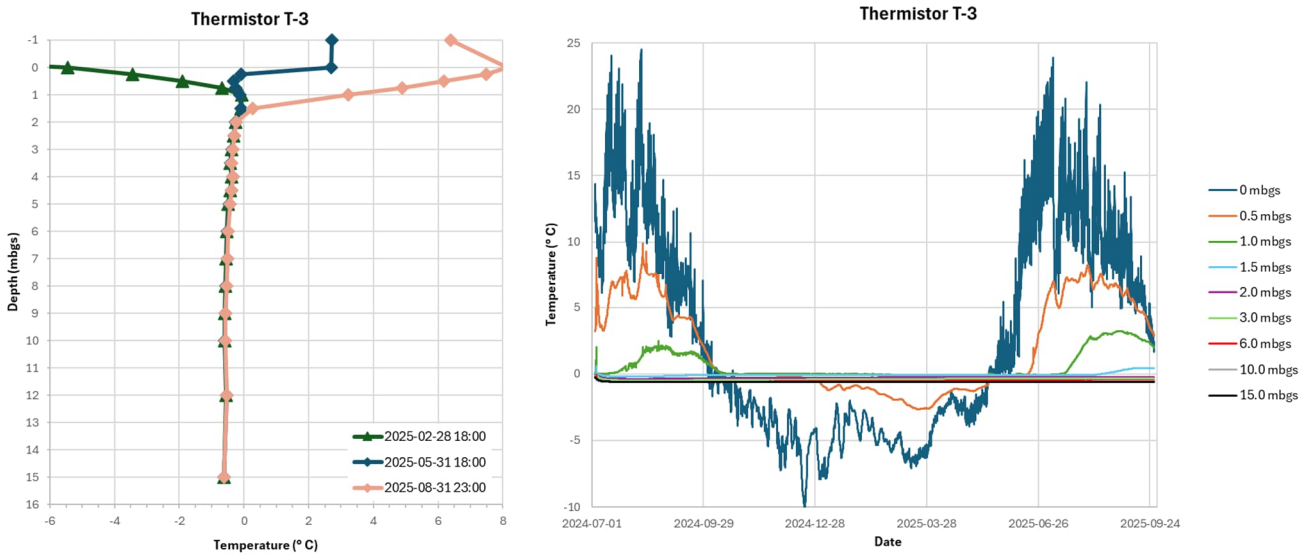

Figure 4: Thermistor T-3 Temperature Readings Between July 2024 and September 2025.

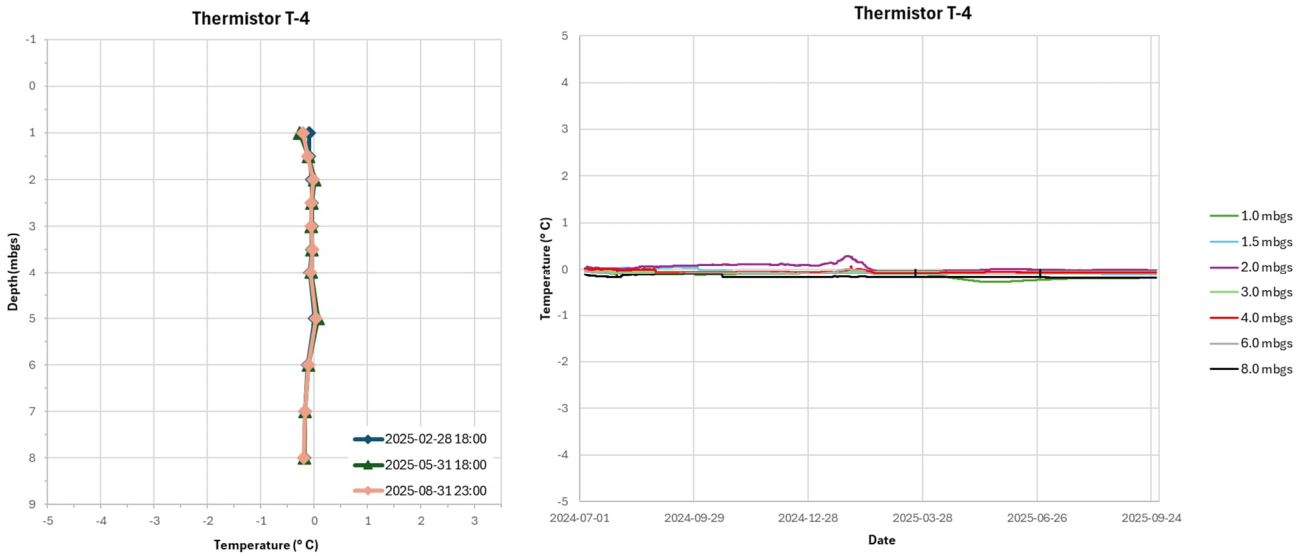

Figure 5: Thermistor T-4 Temperature Readings Between July 2024 and September 2025.

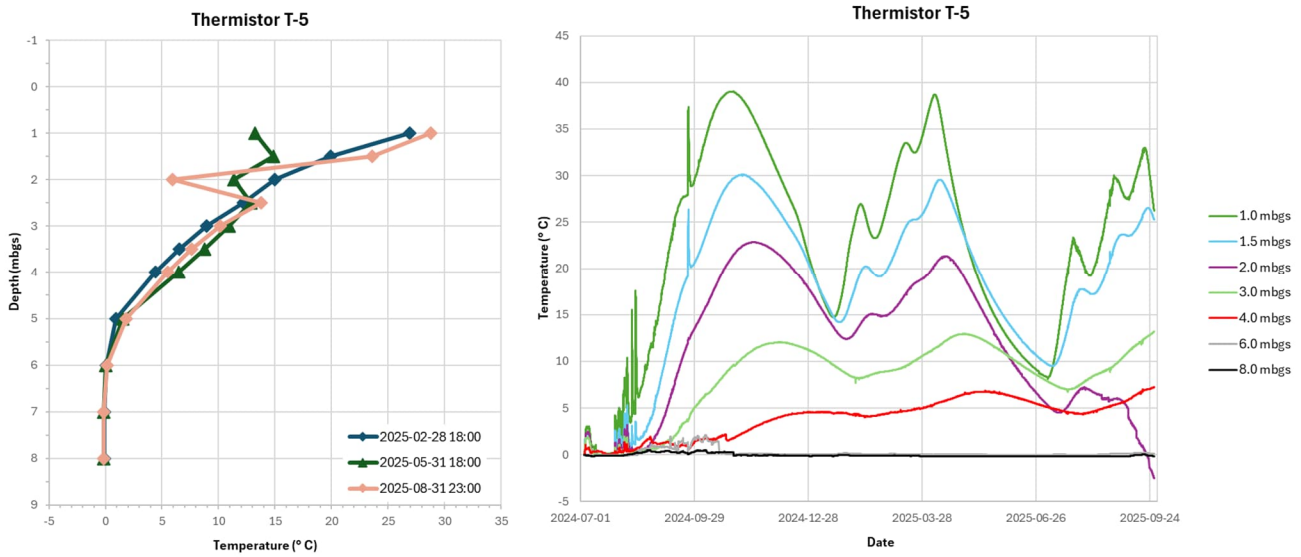

Figure 6: Thermistor T-5 Temperature Readings Between July 2024 and September 2025.

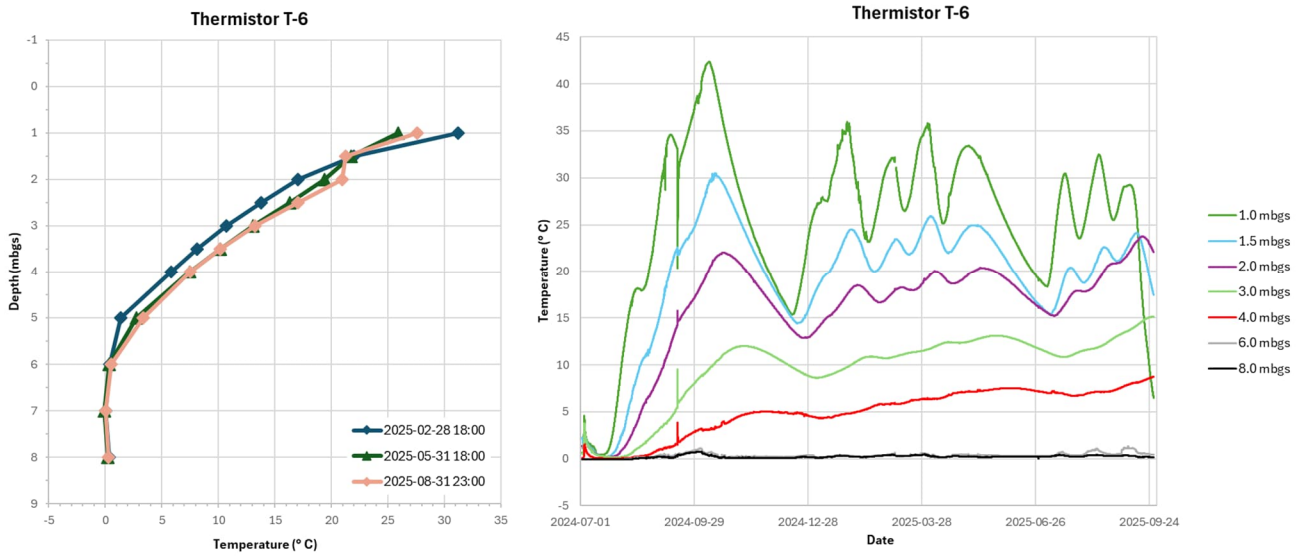

Figure 7: Thermistor T-6 Temperature Readings Between July 2024 and September 2025.

12.3 Air Monitoring

During the 2025 field season, oxidizer air and perimeter air monitoring was conducted at the Site.

Oxidizer air monitoring was conducted daily for each ETC treatment cell under operation and included visual observations of the oxidizer unit exhaust colour and opacity. Throughout the 2025 field season, the exhaust had no colour and was transparent, except for 27 August 2025, when slightly dark-colored exhaust was observed. Field staff adjusted the burner in question, and the issue was resolved before the end of the day. The results of the oxidizer air monitoring conducted in 2025 are presented in Table G1 (Appendix G).

Perimeter air monitoring was conducted twice daily (morning and afternoon) from the north, east, west and south perimeter locations (Figure A4, Appendix A) of the Site using an RKI Eagle 2 Gas Monitor to measure the hexane and isobutylene concentrations in ambient air. The highest concentration of hexane was measured on 20 January 2025 (5 parts per million [ppm]) with most measurements 0 ppm. The highest concentration of isobutylene was measured on 20 February 2025 (8,562 parts per billion [ppb]) with most measurements 0 ppb. It should be noted that these low detections are likely attributable to the exhaust of site equipment working upwind and/or nearby the monitoring locations. The concentrations of hexane and isobutylene measured in 2025 are presented in Table G2 (Appendix G).

12.4 Wildlife Monitoring

Two Wildlife Monitors were present at the Site throughout the 2025 field season, and no site work was completed without a Wildlife Monitor present. Prior to re-starting Project activities in June 2025, the area was inspected by the Wildlife Monitors to ensure that no wildlife, active nests or dens would be disturbed. When work was completed at the Site, the Site was inspected by a Wildlife Monitors every morning prior to work starting to confirm if wildlife was present in the work areas. If wildlife was present, the Wildlife Monitors would advise the WSP Site Supervisor and work was delayed until the wildlife had left of the area.

Wildlife Monitors recorded wildlife observations and signs of wildlife daily on a Wildlife Sighting Report Form. Wildlife or wildlife sign (e.g., nests) were observed 50 times between 1 January and 14 October 2025, the final day of site activities in 2025 (Table G3; Appendix G). A summary of the wildlife sightings that resulted in a delay or work stoppage are presented in Table H.

Table H: Wildlife Sightings That Caused a Delay or Work Stoppage.

Date	Description
13-Aug-25	At approximately 6:30 AM, a grizzly bear (*Ursus arctos*) accompanied by three cubs was observed on site. Work was temporarily suspended until the animals moved away and the all clear to resume work was given. Wildlife monitors consistently inspected the area for any additional wildlife activity. The animals were not seen again.

13.0 PART B – 2.L UNAUTHORIZED DISCHARGES

During the 2025 field season, a total of 16 spills of hazardous substances occurred, with four above the reporting threshold. Most of these events occurred due to normal wear and tear and mechanical failures with various pieces of equipment that resulted in the release of fuel, oil, antifreeze and grease, or sewage being spilled to either the barge camps, river or surrounding ground. To prevent the spread of contamination, spill trays, absorbent pads and containment booms were used to contain and clean up the spills, and any equipment that experienced a fluid leak was taken out of service until the issue was rectified. PHC-impacted soil was removed from the spill area and added to the treatment piles awaiting ETC treatment. Absorbent pads, booms and other contaminated materials were placed in steel barrels or lined soil bags and temporarily stored in the hazardous storage area for subsequent off-site disposal (see Section 5.0). The area where the spills occurred was field screened and visually inspected by a WSP field technician to confirm that the impacted soil was removed.

A complete summary of the spills that occurred at the Site during the 2025 field season is presented in Table H1 (Appendix H). A summary of the spills that resulted in a report to the NWT / NU 24-Hour Spill Report Line are presented in Table I.

Table I: Spills That Were Reported to the NWT / NU 24-Hour Spill Report Line.

Date	Description
3 March 2025	While offloading sewage from the Wurmlinger sewage containment tank to a vacuum truck, the truck overflowed 10 L of wastewater onto the ice road. The truck valve was closed to stop the overflow and the spilled sewage was cleaned up and disposed of. Due to the contents of the spills, the spill was reported to the NWT / NU 24-Hour Spill Report Line and a spill report was submitted.
22 March 2025	While offloading wastewater from the Wurmlinger barge camp to a vac truck the camlock fitting failed resulting in approximately 20 L of wastewater spilling onto the ice. Initial investigations showed that the movement of the hose on the ice caused the fitting to loosen and ultimately fail. Both the operator at the tank and the operator at the truck immediately shut the valve and stopped the flow. The scene was assessed and the clean up commenced by chipping away the contaminated ice for appropriate disposal. While this occurred the site supervisor reported the spill to the NWT / NU 24-Hour Spill Report Line. Going forward the camlock clips will have a secondary securement to ensure that it can not undo itself.
25 July 2025	During the fuel truck refueling process, a bungee cord that was used to secure the hose into the tank came loose. The hose fell off the truck and released diesel both within the containment and onto the spacer barge where approximately 10 L of diesel spilled between the fuel barge and spacer barge into the water. The pump operator immediately shut the pump off. The crew then immediately deployed the containment booms and absorbent pads to soak up the spilled diesel. After approximately 1 hour, the absorbent pads had soaked up the diesel and the sheen was no longer visible. Site supervisor reported the spill to the NWT / NU 24-Hour Spill Report Line.
20 August 2025	During the sewage transfer process, the sewage tank on the spacer barge overflowed and spilled approximately 20 L of sewage onto the spacer barge. The pump operator immediately shutoff the pump to limit the spill. Spill containment materials were deployed immediately however approximately 10 L of sewage entered the river. The crew then immediately deployed the containment booms and absorbent pads to soak up the spilled wastewater. After approximately 5 hours, the absorbent pads had soaked up the waste water and it was no longer visible in the water. Spill was reported to the NWT / NU 24-Hour Spill Report Line. Transport Canada and Fisheries and Oceans Canada contacted WSP as a follow up on the Spill Report.

Note: L - litre

14.0 PART B – 2.M SPILL TRAINING AND COMMUNICATIONS EXERCISES

A summary of the Spill Contingency Plan was presented to all workers during site orientation and was available at the Site. The plan includes the locations of fuel storage facilities and the spill response procedures and equipment. Spill response equipment was in the fuel storage areas, and the equipment and vehicles on site carried fire extinguishers, first aid kits and spill response kits. Throughout the duration of the field season, the fuel storage areas were inspected daily.

During the 2025 field season, two communication exercises (emergency response plan drills) were completed. A summary of each exercise is provided in Table J.

Table J: Summary of Emergency Response Plan Drills

Date	Emergency Response Scenario	Observation / Sequence of Events
5 July 2025	Evacuation Response Drill	Scenario: A 802-barge camp evacuation drill was conducted utilizing the on-board fire alarm system. All workers were in different areas of the 802-barge camp; it was lunch time. Positive observations: ▪ All workers reacted immediately to the alarm, calmly and orderly. All workers proceeded without delay to the muster point on the spacer barge. All propane appliances were shut off by the kitchen staff. One designated Evacuation Captain swept the 802-barge camp. ▪ The Evacuation Captain reported the “all clear” to WSP Superintendent. Roll call was called based on the occupant room sheet that is posted at the exit to the muster point. Areas for improvement: ▪ There must be two Fire Marshals per floor due to 802-barge camp size. ▪ The kitchen/dining area needs a radio for communication. ▪ Evacuation was not timed. ▪ Two employees new to Site started to proceed to the Site muster point. They were not aware of the barge muster station. ▪ Barge master did not have a radio with him to communicate, specifically his being safe and if we needed to evacuate to site muster station.
13 July 2025	Evacuation Response Drill	Scenario: There was an injured worker near the parked water truck and Excavation A area. The drill started when the worker “went down” from their injury, the worker was a member of ERT. The worker was to be transported to the top of the boat ramp from the point of injury. The crew was required to help move the stretcher from Site to the top of the boat ramp by carrying the stretcher and utilizing the UTV. The patient was to be assessed, mobilized/stabilized with scoop and carried to the ground by the back of the UTV. The Medic would direct the operation of the stretcher exercise on site and the Site Superintendent as IC. The stretcher would be weighted with flats of Costco water totalling weight of 212 pounds. The water strapped securely to the stretcher, the stretcher to the UTV. Positive observations: ▪ The plan the Health, Safety, Security and Environment Advisor made was executed well by the Medic, ERT and workers on site. ▪ The worker who found the injured worker stayed with the worker until the ERT arrived and stayed to drive the UTV, as directed by the Medic. ▪ The wildlife monitor mobilized to the area to monitor area immediately when the “man down” was stated over the radio. ▪ All radio communications stopped when the “man down” was broadcasted over the site channel so the Medic could communicate with the person who found the patient. ▪ The life jackets from the rescue boat and 802-barge camp were gathered by the barge master as soon as the “man down” was said over the radio. The barge master had them ready for the ERT. ▪ The Medic communicated what was he needed each team member to do clearly. Areas for improvement: ▪ It was recommended to have a floating stretcher. This is being researched to see if it is feasible with the gangway and if it can be obtained quickly.

Date	Emergency Response Scenario	Observation / Sequence of Events
		▪ Only the medic had gloves on, a box of gloves is needed and accessible for the ERT for emergencies, before they touch a patient. It is an additional option if the ERT member would like to carry them, they will be provided. ▪ The IC did not communicate with the Medic to see if air ambulance (helicopter) was needed or the rescue boat.

Notes: ERT – Emergency Response Team; IC – Incident Commander; UTV – utility-terrain vehicle

15.0 PART B – 2.N MODIFICATION AND MAJOR MAINTENANCE WORK

During the 2025 field season, modification requests were submitted to the IWB for additional ETC soil treatment cycles and to use an alternate contact water treatment system at the Site. These modifications (as approved by the IWB) are described in Sections 15.1 and 15.2.

No major maintenance work was required in 2025.

15.1 Soil Treatment Cycles

The RAP submitted to the IWB on 27 November 2023 stated that soils that fail to meet the SQOs after two treatment cycles were to be stockpiled on-site pending off-site transportation to a licensed disposal facility. In summer 2024 and winter 2025 approximately 16,000 m^3 of soil containing PHCs at concentrations above the SQOs was successfully treated to concentrations below the SQOs in two or less treatment cycles. At the end of the winter 2025 season, however, some soils that had gone through two ETC treatment cycles had concentrations of PHCs that were still marginally above the SQOs.

Shell proposed a modification that would allow the treatment of soil on site through additional ETC treatment cycles and not be limited to two treatment cycles. The modification request was submitted to the IWB on 2 June 2025 and approved on 6 June 2025.

15.2 Water Management

The RAP Addendum No. 1 submitted to the IWB on 12 January 2024 stated that standing surface water at the Site suspected to have elevated contaminant(s) of concern (CoCs) would be stored in temporary storage tanks prior to off-site disposal or processed through an activated carbon treatment system. Treated water would then be sampled for laboratory analysis of CoCs to confirm discharge criteria were met as per the requirement of the Licence.

Shell proposed a modification whereby a quench tower would instead be used to evaporate contact water. The quench tower consists of an open tower structure with three water injection ports arranged in a vertical sequence within the tower itself. Site contact water was pumped from temporary settling and holding ponds, through the quench tower feed, and into the injection ports (location of the settling ponds, holding ponds and quench tower are presented in Figure A4 [Appendix A]). The water stream is then injected directly into the heated process exhaust, destroying potential residual PHCs in the water by combustion with carbon dioxide and water vapour byproducts. Injecting the water into the quench tower in this manner allows the water to be evaporated during heat exchange inside of the quench tower, where any suspended solids drop out and remain on site for treatment in the ETC system.

The modification request was submitted to the IWB on 2 June 2025 and approved on 6 June 2025.

16.0 PART B – 2.O MODIFICATION TO MANAGEMENT PLANS

This section summarizes any updates that have been made to the Management and Monitoring Plans in 2025.

16.1 Spill Contingency Plan

Table K summarizes revisions that were made to the Spill Contingency Plan in 2025. Version 5 changes were made in order to replace the Wurmlinger barge camp with the 802-barge camp and a separate fuel barge during the spring of 2025. The changes did not alter the Spill Contingency Plan's intended purpose. A copy of the Spill Contingency Plan was provided in the 2024 Annual Report (WSP 2025).

Table K: Version Number and Updates Made to the Spill Contingency Plan

Version Number	Date	Changes
5	31 March 2025	Added demobilization of Wurmlinger barge camp and replacement with the 802-barge camp, NT 1013 fuel barge and Radium 100 series barge (or similar) following spring freshet to Section 1.3. Updated fuel and sewage storage volumes in Sections 2.0, 2.1 and 2.3. Added Section 2.3.1: Sewage Transfer. Updated Table 1: Spill Response Contact List (Section 3.2). Added Section 5.5: Measures to Protect Wildlife. Updated Figure 4.

16.2 Waste Management Plan

Table L summarizes revisions that were made to the Waste Management Plan in 2025. Version 5 changes were made in order to replace the Wurmlinger barge camp with the 802-barge camp and a separate fuel barge during the spring of 2025. The changes did not alter the Waste Management Plan's intended purpose. A copy of the Waste Management Plan was provided in the 2024 Annual Report (WSP 2025).

Table L: Version Number and Updates Made to the Waste Management Plan

Version Number	Date	Changes
5	31 March 2025	Added demobilization of Wurmlinger barge camp and replacement with the 802-barge camp, NT 1013 fuel barge and Radium 100 series barge (or similar) following spring freshet to Section 1.3. Deleted Section 3.1.1 because there is no incinerator onboard the 802-barge camp and no waste will be combusted during camp operations. Removed Figure 4 and re-numbered updated Figure 5 to Figure 4.

16.3 Erosion and Sediment Control Plan

No updates were made to the Erosion and Sediment Control Plan last approved by the IWB on 7 June 2024.

16.4 Remedial Action Plan

A RAP Addendum 2 was prepared in 2025 to document two modifications as approved by the Inuvialuit Water Board on 6 June 2025. Table M summarizes the changes documented in the RAP Addendum 2. A copy of the RAP Addendum 2 was provided to the IWB in July 2025 (Shell 2025).

Table M: Addendum Number and Updates Made to the Remedial Action Plan

Addendum Number	Date	Changes
Addendum 2	3 July 2025	Added additional soil treatment cycles to Section 7.2.3. Added quench towers for contact water management to Section 9.2.1. Updated project schedule in Section 11.

16.5 Permafrost Protection Plan

No updates were made to the Permafrost Protection Plan last approved by the IWB on 7 May 2024.

16.6 Reclamation, Closure and Monitoring Plan

No updates were made to the Reclamation, Closure and Monitoring Plan last approved by the IWB on 7 May 2024.

16.7 Wildlife Management and Monitoring Plan

Table N below summarizes revisions that were made to the Wildlife Management and Monitoring Plan in 2025. Version 1 changes were made in order to replace the Wurmlinger barge camp with the 802-barge camp and a separate fuel barge during the spring of 2025. The changes did not alter the Wildlife Management and Monitoring Plan's intended purpose. A copy of the Wildlife Management and Monitoring Plan was provided in the 2024 Annual Report (WSP 2025).

Table N: Version Number and Updates Made to the Wildlife Management and Monitoring Plan

Version Number	Date	Changes
1	31 March 2025	Updated text in Section 1.3 Project Summary to reflect change to a summer start, a barge camp instead of a sleigh camp, and increase to five ETC units. Added demobilization of Wurmlinger barge camp and replacement with the 802-barge camp, NT 1013 fuel barge and Radium 100 series barge (or similar) following spring freshet to Section 1.3. Added Section 2.4 Insects. Added Environment and Climate Change Canada Canadian Wildlife Service contact information to Section 6.0. Added Figure 4.

16.8 Emergency Response Plan

Table O below summarizes revisions that were made to the Emergency Response Plan in 2025. Version 4 changes were made in order to replace the Wurmlinger barge camp with the 802-barge camp and a separate fuel barge during the spring of 2025. The changes did not alter the Emergency Response Plan's intended purpose. A copy of the Emergency Response Plan was provided to the IWB in July 2025 (Shell 2025).

Table O: Version Number and Updates Made to the Emergency Response Plan

Version Number	Date	Changes
4	3 July 2025	Added demobilization of Wurmlinger barge camp and replacement with the 802-barge camp, NT 1013 fuel barge and Radium 100 series barge (or similar) following spring freshet to Section 1.3. Added approved modification that allows the treatment of soil on site through additional ETC treatment cycles to Section 1.3. Updated Table 2: Emergency Contact List Updated Figure A4 in Appendix A.

17.0 REFERENCES

Literature Cited

GNWT ENR (Government of Northwest Territories Environment and Natural Resources). 2017. Guideline for Hazardous Waste Management. Yellowknife, NWT. Available at: https://www.gov.nt.ca/ecc/sites/ecc/files/resources/128-hazardous_waste-interactive_web_0_0.pdf

Shell (Shell Canada Limited). 2025. Updated Management Plans for Soil Remediation at the Former West Channel Staging Site, Inuvialuit Settlement Region, Northwest Territories. 3 July 2025.

WSP (WSP Canada Inc.). 2024a. Remedial Action Plan, Former West Channel Staging Site, Inuvialuit Settlement Region, Northwest Territories. 16 November 2023. And Addendum 1. 12 January 2024.

WSP. 2024b. Quality Assurance and Quality Control Plan, Former West Channel Staging Site, Inuvialuit Settlement Region, Northwest Territories. 13 June 2024.

WSP. 2024c. Reclamation, Closure and Monitoring Plan, Former West Channel Staging Site, Inuvialuit Settlement Region, Northwest Territories. 16 November 2023. And Addendum 1 12 January 2024.

WSP. 2025. 2024 Annual Report, IWB Water Licence N5L8-1846, Former West Channel Staging Site Remediation Project, Inuvialuit Settlement Region, Northwest Territories. 31 March 2025.

Internet Site

NHS GOC (National Hydrological Service Government of Canada). 2026. Real-Time Hydrometric Data Graph for Mackenzie River (Peel Channel) above Aklavik (10MC003) [NT]. Available at: https://wateroffice.ec.gc.ca/report/real_time_e.html?stn=10MC003. Accessed January 2026.

Personal Communication

Gruben, L. 2024. Inspector, GNWT, Environment and Climate Change. E-mail: Lloyd_Gruben@gov.nt.ca. 19 August 2024.

18.0 STATEMENT OF LIMITATIONS

This report was prepared for the exclusive use of Shell Canada Limited. The report, which specifically includes all tables and figures, is based on data and information collected during the Site investigation activities conducted by WSP Canada Inc. and is based solely on the conditions of the property at the time of the field investigations, supplemented by historical information and data obtained by WSP Canada Inc. as described in this report.

The services performed as described in this report were conducted in a manner consistent with that level of care and skill normally exercised by other members of the engineering and science professions currently practicing under similar conditions, subject to the time limits and financial and physical constraints applicable to the services.

Any use which a third party makes of this report, or any reliance on, or decisions to be made based on it, are the responsibilities of such third parties. WSP Canada Inc. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

The content of this report is based on information collected during our investigation, our present understanding of the Site conditions, and our professional judgment in light of such information at the time of this report. This report provides a professional opinion and therefore no warranty is expressed, implied, or made as to the conclusions, advice and recommendations offered in this report. The findings and conclusions of this report are valid only as of the date of this report.

Signature Page

WSP Canada Inc.

Stephanie Villeneuve, MSc
Environmental Scientist
WSP Canada Inc.
902-476-5769
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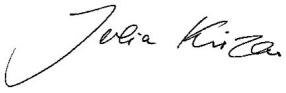
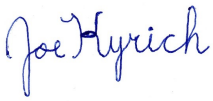


Julia Krizan, PhD
Senior Principal Biologist
WSP Canada Inc.
780-483-3499
julia.krizan@wsp.com

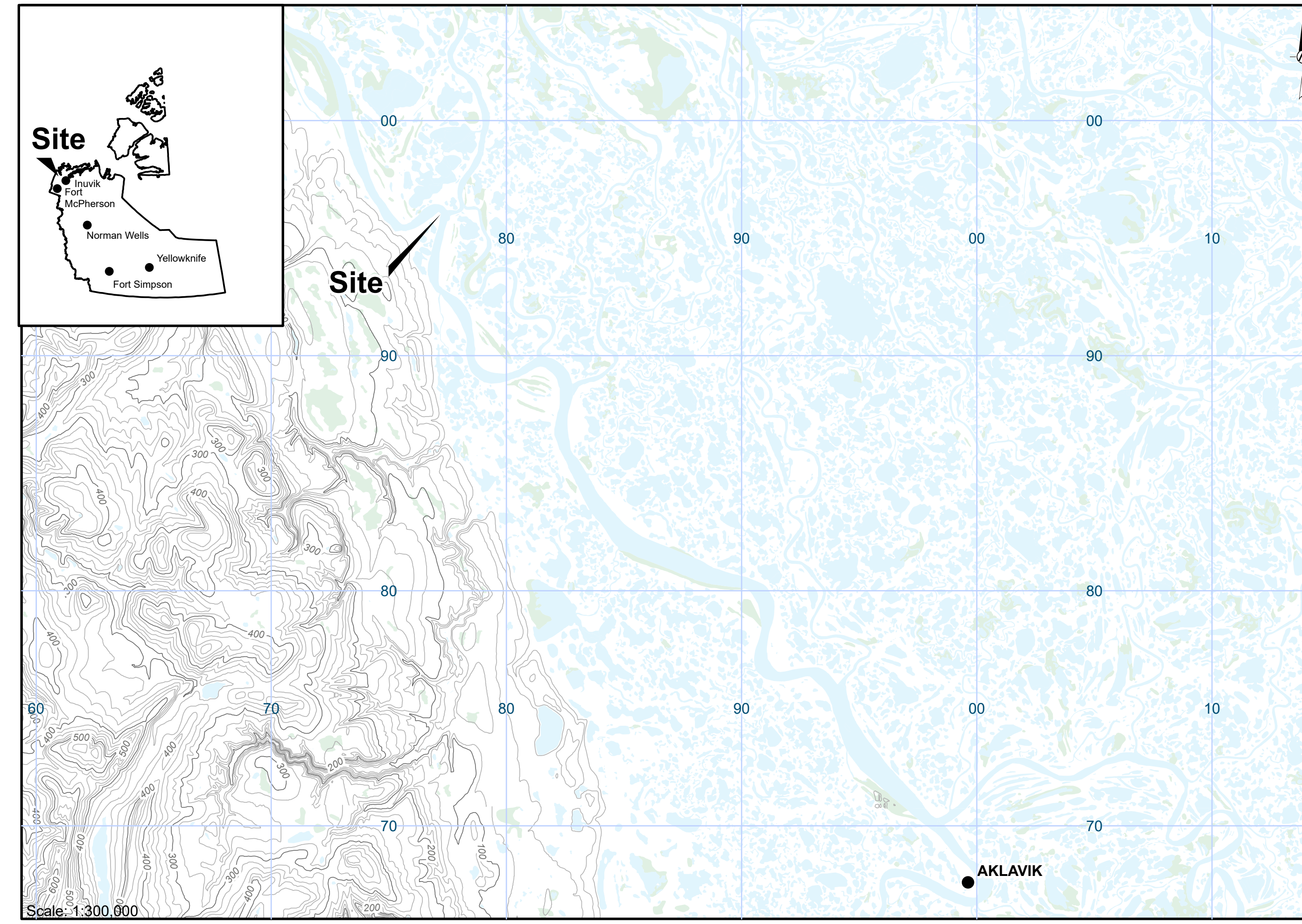


Joe Hyrich, BSc, MCPM
Senior Project Manager
WSP Canada Inc.
204-588-8288
joseph.hyrich@wsp.com

SV/JK/JH/sh

APPENDIX A

Figures



LEGEND

- CONTOUR (50 M INTERVAL)
- CONTOUR (10 M INTERVAL)
- WATERCOURSE
- WATERBODY
- SWAMP

REFERENCE(S)

1. BASE MAP: MAXAR
2. KEY TOPOGRAPHICAL MAP CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - CANADA.
3. MACKENZIE DELTA BOUNDARY: TESSLER (2015)
4. INSET MAP: MADE WITH NATURAL EARTH.
5. PROJECTION: NAD 1983 CSRS UTM ZONE 8N, TRANSVERSE MERCATOR

0 500 1,000

1:15,000 METRES

CLIENT
SHELL CANADA LIMITED

PROJECT
FORMER STAGING AREA
WEST CHANNEL
INUVIALUIT SETTLEMENT REGION, NORTHWEST TERRITORIES

CONSULTANT

wsp

YYYY-MM-DD	2026-02-17
DESIGNED	S.VILLENEUVE
PREPARED	J.HECK
REVIEWED	J.KRIZAN
APPROVED	J.HYRICH

TITLE
SITE LOCATION

PROJECT NO.	PHASE-TASK	REV.	FIGURE
CA0059450.0868	2000-2653	0	A1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

LEGEND

- HISTORICAL INFRASTRUCTURE
- FORMER LEASE BOUNDARY

0 37.5 75 150

1:3,000 METRES

NOTE(S)

1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - CANADA
2. BASE MAP: SOURCE: ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY
3. COORDINATE SYSTEM: NAD 1983 CSRS UTM ZONE 8N

CLIENT
SHELL CANADA LIMITED

PROJECT
FORMER STAGING SITE
WEST CHANNEL
INUVIALUIT SETTLEMENT REGION, NORTHWEST TERRITORIES

TITLE
SITE PLAN WITH HISTORICAL INFRASTRUCTURE

CONSULTANT

YYYY-MM-DD	2026-02-17
DESIGNED	S.VILLENEUVE
PREPARED	J.HECK
REVIEWED	J.KRIZAN
APPROVED	J.HYRICH

PROJECT NO.	CONTROL	REV.	FIGURE
CA0059450.0868	2000-2653	0	A2

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

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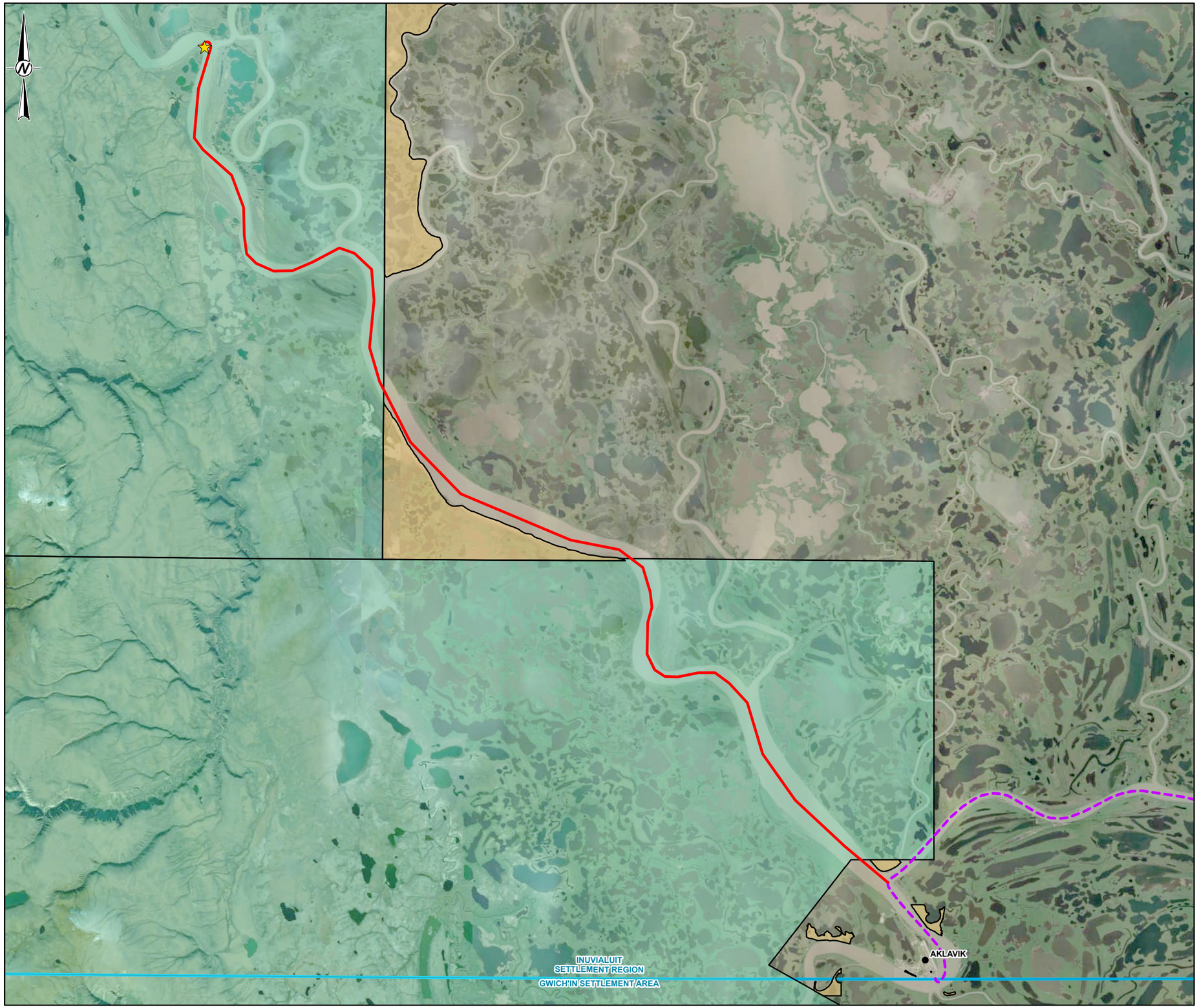

LEGEND

- SITELOCATION
- PROPOSED ICE ROAD
- PUBLIC SEASONAL ICE ROAD FROM AKLAVIK TO INUVIK
- SETTLEMENT REGION BOUNDARY

INUVIALUIT PRIVATE LANDS

- 7(1)(A) LANDS - SURFACE AND SUBSURFACE TITLE
- 7(1)(B) LANDS - SURFACE TITLE

0 1.5 3 6

1:120,000 KILOMETRES

NOTE(S)

1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - CANADA
2. BASE MAP: EARTHSTAR GEOGRAPHICS
3. COORDINATE SYSTEM: NAD 1983 CSRS UTM ZONE 8N

CLIENT
SHELL CANADA LIMITED

PROJECT
FORMER STAGING SITE
WEST CHANNEL
INUVIALUIT SETTLEMENT REGION, NORTHWEST TERRITORIES

TITLE
SITE LOCATION WITH ICE ROAD

CONSULTANT

wsp

YYYY-MM-DD	2026-02-17
DESIGNED	S.VILLENEUVE
PREPARED	J.HECK
REVIEWED	J.KRIZAN
APPROVED	J.HYRICH

PROJECT NO.	CONTROL	REV.	FIGURE
CA0059450.0868	2000-2653	0	A3

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

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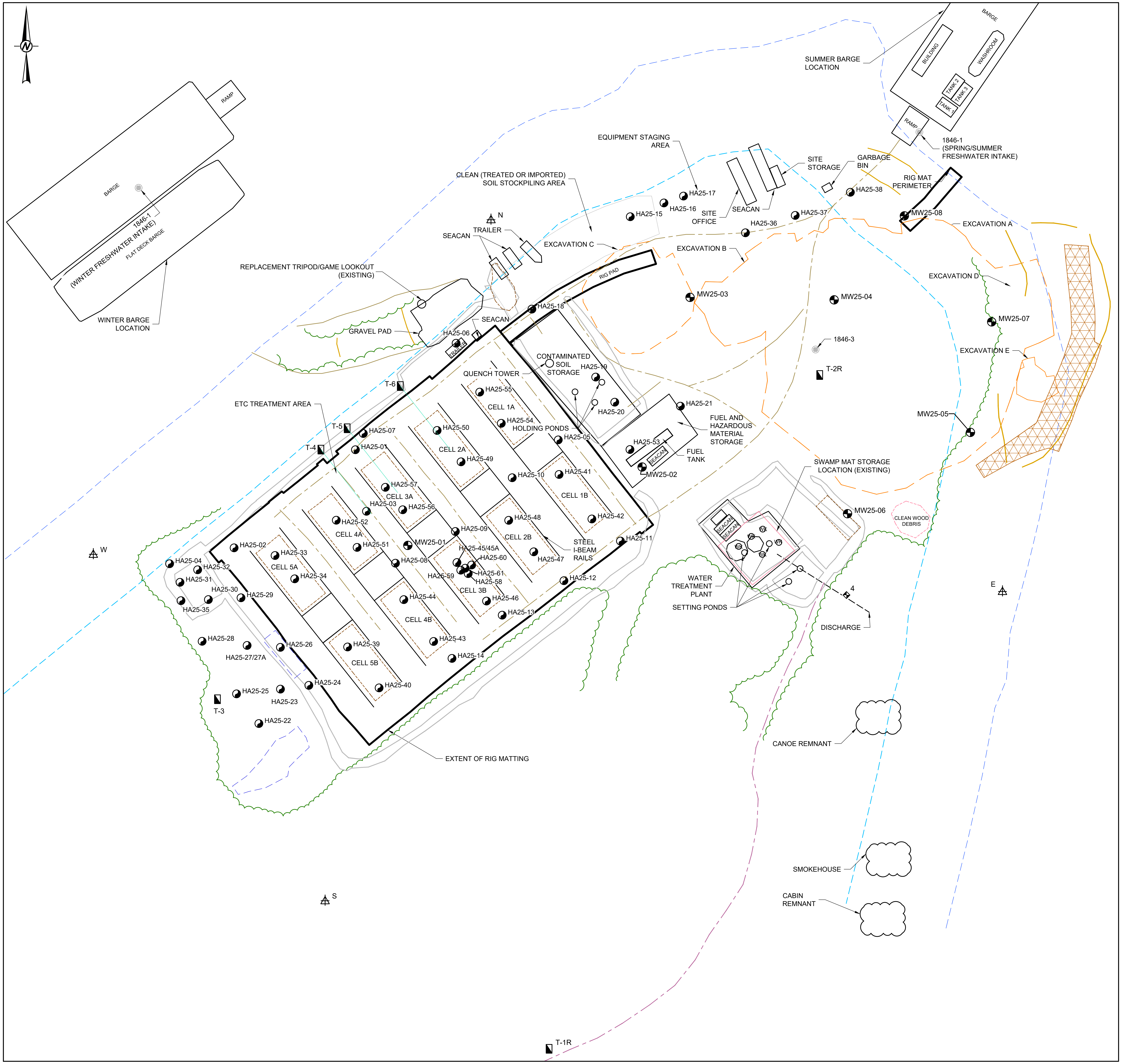

LEGEND

- SURVEYED EXCAVATION LIMITS
- CUT LINE
- CLEAN WOOD DEBRIS LOCATION (EXISTING)
- HIGH WATER MARK
- 30 m BUFFER FROM HIGH WATER MARK
- LOW-LYING WET AREA
- ROAD CENTERLINE
- SOIL STOCKPILE/TREATMENT CELL
- TRAIL EDGE LINE
- BERM
- STRAW WATTLES (PLACED APRIL 2025)
- COCONUT MATTING (PLACED SEPTEMBER 2025) (EXISTING)
- TREE/BUSH LINE
- WATER TREATMENT PLANT DISCHARGE
- THERMISTOR LOCATION (EXISTING)
- HAND AUGER BOREHOLE
- SURVEILLANCE NETWORK MONITORING PROGRAM SAMPLING STATION
- DISCHARGE POINT
- AMBIENT AIR MONITORING LOCATION
- BOREHOLE LOCATION COMPLETED AS A MONITORING WELL

NOTES

THE AS-BUILT DRAWING REFLECTS THE SITE CONDITIONS AT THE TIME THE SURVEY WAS COMPLETED AND IS NOT NECESSARILY REFLECTIVE OF THE CONDITIONS AT THE TIME OF DRAWING REVIEW.

REFERENCE

ORIGINAL DRAWING OBTAINED FROM GEOVERRA LIMITED PARTNERSHIP; FILE No.: 24-01717-001-SK-01-R0-AS-BUILT; SCALE: 1:400.

DRAFT

0 12.5 25
1:750 METRES

CLIENT
SHELL CANADA LIMITED

PROJECT
FORMER STAGING AREA
WEST CHANNEL, INUVIALUIT SETTLEMENT REGION, NORTHWEST TERRITORIES

TITLE
SITE PLAN

CONSULTANT
wsp

YYYY-MM-DD	2026-02-13
DESIGNED	AHachkowski
PREPARED	LMoraes
REVIEWED	JHyrich
APPROVED	AHachkowski

PROJECT NO.	CONTROL	REV.	FIGURE
CA0059450.0868	2000-2604	A	A4

APPENDIX B

Site Photos

Photo 1 – Site remediation activities, soil treatment cell (10 February 2025).

Photo 2 – Site remediation activities, taken from the deck of the barge camp (21 February 2025).

CLIENT	**Shell Canada Limited**
CONSULTANT	wsp
DATE	March 2026
PREPARED	SV
REVIEWED	JH
PROJECT	**Former Staging Site, West Channel, Inuvialuit Settlement Region, Northwest Territories**
TITLE	**Photographic Document**
PROJECT NO	CA0059450.0868

Photo 3 – Soil excavation activities (9 February 2025).

Photo 4 – Backfilling excavations with barge camp in the background (1 August 2025).

CLIENT	**Shell Canada Limited**
CONSULTANT	
PROJECT	**Former Staging Site, West Channel, Inuvialuit Settlement Region, Northwest Territories**
TITLE	**Photographic Document**
DATE	March 2026
PREPARED	SV
REVIEWED	JH
PROJECT NO	CA0059450.0868

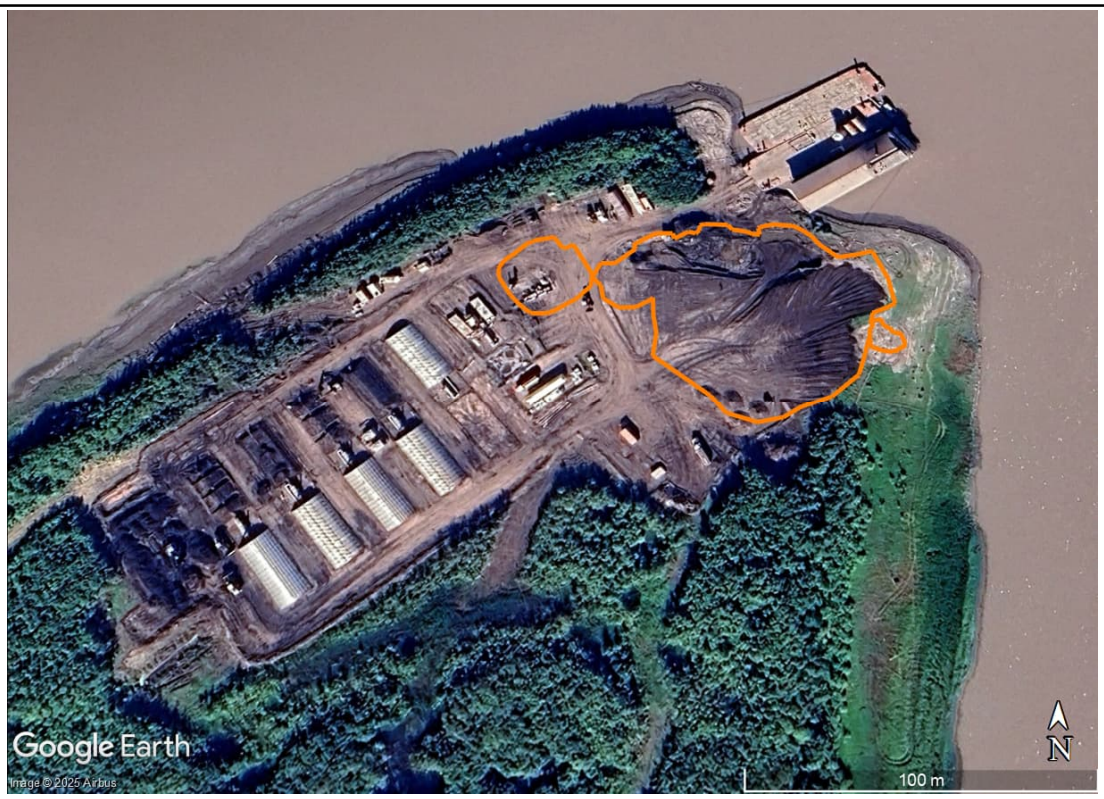

Photo 5 – Google Earth satellite image of West Channel from August 2025 with the final excavation limits as of October 2025 (orange outline).

Photo 6 – Post-remediation, surface rough graded (24 September 2025).

CLIENT
Shell Canada Limited

CONSULTANT

PROJECT
Former Staging Site, West Channel, Inuvialuit Settlement Region, Northwest Territories

TITLE
Photographic Document

DATE	March 2026
PREPARED	SV
REVIEWED	JH

PROJECT NO CA0059450.0868

APPENDIX C

Laboratory Certificates of Analysis and Data Quality Review Checklists

6310 ROPER ROAD
EDMONTON, ALBERTA
CANADA T6B 3P9
TEL (780)395-2525
FAX (780)462-2490
http://www.agatlabs.com

CLIENT NAME: WSP CANADA INC.
237 - 4 AVE SW SUITE 3300
CALGARY, AB T2P 4K3
(403) 271-4442
ATTENTION TO: Andrea Hachkowski
PROJECT: CA0009291.9178.1600.2485 West Channel
AGAT WORK ORDER: 25E269085
SOIL ANALYSIS REVIEWED BY: Kartik Shekhada, Lab Technician
TRACE ORGANICS REVIEWED BY: Qiuhong Dong, Lab Technician A
ULTRA TRACE REVIEWED BY: Roza Mokhtari, Chimiste, AGAT Montréal
DATE REPORTED: Apr 24, 2025
PAGES (INCLUDING COVER): 34
VERSION*: 2

Should you require any information regarding this analysis please contact your client services representative at (780) 395-2525

Notes

VERSION 2:Supersedes Version 1. COA cover page included (4/24 DR).

AGAT Laboratories

6310 ROPER ROAD
EDMONTON, ALBERTA
CANADA T6B 3P9
TEL (780)395-2525
FAX (780)462-2490
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 25E269085

PROJECT: CA0009291.9178.1600.2485 West Channel

CLIENT NAME: WSP CANADA INC.

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

Cyanide WAD in Soil

DATE RECEIVED: 2025-04-10

DATE REPORTED: 2025-04-24

			SAMPLE DESCRIPTION:	WC25-Ash-01
			SAMPLE TYPE:	Other
			DATE SAMPLED:	2025-04-08 17:37
Parameter	**Unit**	**G / S**	**RDL**	**6648614**
Cyanide, WAD	µg/g		0.040	<0.040

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

AGAT Laboratories

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EDMONTON, ALBERTA
CANADA T6B 3P9
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Certificate of Analysis

AGAT WORK ORDER: 25E269085

PROJECT: CA0009291.9178.1600.2485 West Channel

CLIENT NAME: WSP CANADA INC.

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

Metal - TCLP

DATE RECEIVED: 2025-04-10

DATE REPORTED: 2025-04-24

		SAMPLE DESCRIPTION:		WC25-Ash-01
		SAMPLE TYPE:		Other
		DATE SAMPLED:		2025-04-08 17:37
Parameter	**Unit**	**G / S**	**RDL**	**6648614**
Antimony - Leachate	mg/L	500	0.5	<0.5
Arsenic - Leachate	mg/L	5.0	0.5	<0.5
Barium - Leachate	mg/L	100	0.5	<0.5
Beryllium - Leachate	mg/L	5.0	0.5	<0.5
Boron - Leachate	mg/L	500	0.5	3.6
Cadmium - Leachate	mg/L	1.0	0.5	<0.5
Chromium - Leachate	mg/L	5.0	0.5	**5.3**
Cobalt - Leachate	mg/L	100	0.5	<0.5
Copper - Leachate	mg/L	100	0.5	<0.5
Iron - Leachate	mg/L	1000	0.5	<0.5
Lead - Leachate	mg/L	5.0	0.5	<0.5
Mercury - Leachate	mg/L	0.2	0.1	<0.1
Nickel - Leachate	mg/L	5.0	0.5	<0.5
Selenium - Leachate	mg/L	1.0	0.5	<0.5
Silver - Leachate	mg/L	5.0	0.5	<0.5
Thallium - Leachate	mg/L	5.0	0.5	<0.5
Uranium - Leachate	mg/L	2.0	0.5	<0.5
Vanadium - Leachate	mg/L	100	0.5	<0.5
Zinc - Leachate	mg/L	500	1	<1
Zirconium - Leachate	mg/L	500	0.5	<0.5

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Class 2 Landfill (Updated March 2017)
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6648614 Analysis based on "as received"
*Values verified by repeat analysis.

Analysis performed at AGAT Edmonton (unless marked by *)

Certified By:

AGAT Laboratories

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EDMONTON, ALBERTA
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FAX (780)462-2490
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 25E269085

PROJECT: CA0009291.9178.1600.2485 West Channel

CLIENT NAME: WSP CANADA INC.

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

TCLP Fluoride and Nitrate+Nitrite

DATE RECEIVED: 2025-04-10

DATE REPORTED: 2025-04-24

				SAMPLE DESCRIPTION:	WC25-Ash-01
				SAMPLE TYPE:	Other
				DATE SAMPLED:	2025-04-08 17:37
Parameter	**Unit**	**G / S**	**RDL**	**6648614**	
Fluoride Leachate	mg/L	150	0.10	<0.10	
(Nitrate + Nitrite) as N Leachate	mg/L	1000	0.70	<0.70	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to O. Reg. 558 - Schedule IV Leachate Quality Criteria
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

AGAT Laboratories

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EDMONTON, ALBERTA
CANADA T6B 3P9
TEL (780)395-2525
FAX (780)462-2490
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 25E269085

PROJECT: CA0009291.9178.1600.2485 West Channel

CLIENT NAME: WSP CANADA INC.

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

BTEX - TCLP

DATE RECEIVED: 2025-04-10

DATE REPORTED: 2025-04-24

		SAMPLE DESCRIPTION:		WC25-Ash-01
		SAMPLE TYPE:		Other
		DATE SAMPLED:		2025-04-08 17:37
Parameter	**Unit**	**G / S**	**RDL**	**6648614**
Benzene (Leachate)	mg/L	0.5	0.005	<0.005
Toluene (Leachate)	mg/L	0.5	0.005	<0.005
Ethylbenzene (Leachate)	mg/L	0.5	0.005	<0.005
Xylenes (Leachate)	mg/L	0.5	0.005	<0.005
Surrogate	**Unit**	**Acceptable Limits**		
Toluene-d8 - Leachable (EDM)	%	60-140		87

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Class 2 Landfill (Updated March 2017)
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6648614 Flashpoint corrected to Sea Level.
Zero Headspace Extraction for Leachable BTEX.
Xylenes – Leachable is a calculated parameter. The calculated value is the sum of m&p-Xylenes - Leachable + o-Xylene – Leachable.

Analysis performed at AGAT Edmonton (unless marked by *)

Certified By: Qiuhong Dong

AGAT Laboratories

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EDMONTON, ALBERTA
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TEL (780)395-2525
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Certificate of Analysis

AGAT WORK ORDER: 25E269085

PROJECT: CA0009291.9178.1600.2485 West Channel

CLIENT NAME: WSP CANADA INC.

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

Phenolic Compounds in Solid

DATE RECEIVED: 2025-04-10

DATE REPORTED: 2025-04-24

		SAMPLE DESCRIPTION:		WC25-Ash-01
		SAMPLE TYPE:		Other
		DATE SAMPLED:		2025-04-08 17:37
Parameter	**Unit**	**G / S**	**RDL**	**6648614**
Phenol	mg/kg		0.0012	<0.0012
4-Nitrophenol	mg/kg		0.005	<0.005
m&p-Cresol	mg/kg		0.005	<0.005
o-Cresol	mg/kg		0.005	<0.005
2-Chlorophenol	mg/kg		0.005	<0.005
2,4-Dinitrophenol	mg/kg		0.005	<0.005
2-Nitrophenol	mg/kg		0.005	<0.005
2,4-Dimethylphenol	mg/kg		0.005	<0.005
2,6-Dichlorophenol	mg/kg		0.005	<0.005
4-Chloro-3-methylphenol	mg/kg		0.005	<0.005
2,4-Dichlorophenol	mg/kg		0.0020	<0.002
4,6-Dinitro-2-methylphenol	mg/kg		0.005	<0.005
2,3,6-Trichlorophenol	mg/kg		0.005	<0.005
2,3,4-Trichlorophenol	mg/kg		0.005	<0.005
2,4,6-Trichlorophenol	mg/kg		0.005	<0.005
2,4,5-Trichlorophenol	mg/kg		0.005	<0.005
2,3,5-Trichlorophenol	mg/kg		0.005	<0.005
3,4,5-Trichlorophenol	mg/kg		0.005	<0.005
2,3,4,6-Tetrachlorophenol	mg/kg		0.005	<0.005
2,3,5,6-Tetrachlorophenol	mg/kg		0.005	<0.005
2,3,4,5-Tetrachlorophenol	mg/kg		0.005	<0.005
Pentachlorophenol	mg/kg		0.005	0.091
Surrogate	**Unit**	**Acceptable Limits**		
2-Fluorophenol	%	50-140		111
2,4,6-Tribromophenol	%	50-140		106

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6648614 Results relate only to the items tested.
Samples are reported using dry weight detection limits, these limits may not have been met when moisture content is >30%.

Analysis performed at AGAT Calgary (unless marked by *)

Certified By: Qiuhong Dong

AGAT Laboratories

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EDMONTON, ALBERTA
CANADA T6B 3P9
TEL (780)395-2525
FAX (780)462-2490
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 25E269085

PROJECT: CA0009291.9178.1600.2485 West Channel

CLIENT NAME: WSP CANADA INC.

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

Polyaromatic Hydrocarbon Analysis - Solid(Alberta)

DATE RECEIVED: 2025-04-10

DATE REPORTED: 2025-04-24

		SAMPLE DESCRIPTION:		WC25-Ash-01
		SAMPLE TYPE:		Other
		DATE SAMPLED:		2025-04-08 17:37
Parameter	**Unit**	**G / S**	**RDL**	**6648614**
Acenaphthene	mg/kg		0.005	0.006
Acenaphthylene	mg/kg		0.005	0.006
Anthracene	mg/kg		0.004	<0.004
Acridine	mg/kg		0.05	<0.05
Quinoline	mg/kg		0.05	<0.05
Naphthalene	mg/kg		0.005	0.277
2-Methylnaphthalene	mg/kg		0.005	0.066
1-Methylnaphthalene	mg/kg		0.005	0.066
Fluorene	mg/kg		0.01	<0.01
Phenanthrene	mg/kg		0.02	0.26
Fluoranthene	mg/kg		0.01	0.05
Pyrene	mg/kg		0.01	0.03
Benzo[a]anthracene	mg/kg		0.02	<0.02
Chrysene	mg/kg		0.05	<0.05
Benzo[b+j]fluoranthene	mg/kg		0.03	<0.03
Benzo[k]fluoranthene	mg/kg		0.02	<0.02
Benzo[e]pyrene	mg/kg		0.05	<0.05
Benzo[a]pyrene	mg/kg		0.03	<0.03
Perylene	mg/kg		0.05	<0.05
Indeno[1,2,3-cd]pyrene	mg/kg		0.02	<0.02
Dibenzo[ah]anthracene	mg/kg		0.005	<0.005
Benzo[ghi]perylene	mg/kg		0.05	<0.05
B[a]P TPE	mg/kg		0.0225	0.0225
IACR (Coarse Soil)			0.0136	0.0136
IACR (Fine Soil)			0.0259	0.0259
Surrogate	**Unit**	**Acceptable Limits**		
p-Terphenyl-d14 (PAH)	%	50-140		94
p-Naphthalene-d8 (PAH)	%	50-140		101
P_Pyrene-d10 (PAH)	%	50-140		113

Certified By: Qiuhong Dong

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Certificate of Analysis

AGAT WORK ORDER: 25E269085

PROJECT: CA0009291.9178.1600.2485 West Channel

CLIENT NAME: WSP CANADA INC.

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

Polyaromatic Hydrocarbon Analysis - Solid(Alberta)

DATE RECEIVED: 2025-04-10

DATE REPORTED: 2025-04-24

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6648614 Results are based on the dry weight of the sample.
Samples are reported using dry weight detection limits, these limits may not have been met when moisture content is >30%.
Based on GC/MS target ion analysis.
Isomers Benzo(b)fluoranthene and Benzo(j)fluoranthene have the same GC retention time and are reported as the sum based on the Benzo(b)fluoranthene response.
B[a]P TPE, IACR (Coarse) and IACR (Fine) are calculated parameters. They are calculated according to the Alberta Tier 1 Soil and Groundwater Remediation Guidelines, January 10, 2019. The calculations are not accredited, individual parameters that make up the calculated parameters are accredited. Note that if the analysis returns non-detects for a parameter, ½ the detection limit is entered into the formulas. As per the Guidance Manual for Environmental Site Characterization in Support of Environmental and Human Health Risk Assessment Volume 4 Analytical Methods (2016).

Analysis performed at AGAT Calgary (unless marked by *)

Certified By: Qiuhong Dong

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AGAT WORK ORDER: 25E269085

PROJECT: CA0009291.9178.1600.2485 West Channel

CLIENT NAME: WSP CANADA INC.

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

Volatile Organic Compounds in Solid (Methanol Field Stabilized)

DATE RECEIVED: 2025-04-10

DATE REPORTED: 2025-04-24

		SAMPLE DESCRIPTION:		WC25-Ash-01
		SAMPLE TYPE:		Other
		DATE SAMPLED:		2025-04-08 17:37
Parameter	Unit	G / S	RDL	6648614
Chloromethane	mg/kg		0.01	<0.01
Vinyl Chloride	mg/kg		0.00020	<0.00020
Bromomethane	mg/kg		0.01	<0.01
Chloroethane	mg/kg		0.01	<0.01
Trichlorofluoromethane	mg/kg		0.01	<0.01
Acetone	mg/kg		0.2	<0.2
1,1-Dichloroethylene	mg/kg		0.010	<0.010
Methylene Chloride	mg/kg		0.010	0.03
Methyl tert-Butyl Ether	mg/kg		0.010	<0.010
Methyl Ethyl Ketone	mg/kg		0.2	<0.2
trans-1,2-Dichloroethylene	mg/kg		0.01	<0.01
1,1-Dichloroethane	mg/kg		0.01	<0.01
cis-1,2-Dichloroethylene	mg/kg		0.01	<0.01
Chloroform	mg/kg		0.0010	<0.0010
1,2-Dichloroethane	mg/kg		0.0020	<0.0020
1,1,1-Trichloroethane	mg/kg		0.01	<0.01
Carbon Tetrachloride	mg/kg		0.0005	<0.0005
Benzene	mg/kg		0.005	0.010
1,2-Dichloropropane	mg/kg		0.01	<0.01
Trichloroethylene	mg/kg		0.004	<0.004
Bromodichloromethane	mg/kg		0.01	<0.01
trans-1,3-Dichloropropene	mg/kg		0.01	<0.01
Methyl Isobutyl Ketone	mg/kg		0.2	<0.2
cis-1,3-Dichloropropene	mg/kg		0.01	<0.01
1,1,2-Trichloroethane	mg/kg		0.01	<0.01
Toluene	mg/kg		0.01	0.03
2-Hexanone	mg/kg		0.2	<0.2
Dibromochloromethane	mg/kg		0.01	<0.01
Ethylene Dibromide	mg/kg		0.01	<0.01

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Certificate of Analysis

AGAT WORK ORDER: 25E269085

PROJECT: CA0009291.9178.1600.2485 West Channel

CLIENT NAME: WSP CANADA INC.

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

Volatile Organic Compounds in Solid (Methanol Field Stabilized)

DATE RECEIVED: 2025-04-10

DATE REPORTED: 2025-04-24

		SAMPLE DESCRIPTION:		WC25-Ash-01
		SAMPLE TYPE:		Other
		DATE SAMPLED:		2025-04-08 17:37
Parameter	**Unit**	**G / S**	**RDL**	**6648614**
Tetrachloroethene	mg/kg		0.010	<0.010
1,1,1,2-Tetrachloroethane	mg/kg		0.01	<0.01
Chlorobenzene	mg/kg		0.01	<0.01
Ethylbenzene	mg/kg		0.010	<0.010
m,p-Xylenes	mg/kg		0.01	0.01
Bromoform	mg/kg		0.01	<0.01
Styrene	mg/kg		0.01	<0.01
1,1,2,2-Tetrachloroethane	mg/kg		0.01	<0.01
o-Xylene	mg/kg		0.01	0.01
1,3-Dichlorobenzene	mg/kg		0.01	<0.01
1,4-Dichlorobenzene	mg/kg		0.010	<0.010
1,2-Dichlorobenzene	mg/kg		0.010	<0.010
1,2,4-Trichlorobenzene	mg/kg		0.01	<0.01
Total Xylenes	mg/kg		0.01	0.02
Surrogate	**Unit**	**Acceptable Limits**		
Toluene-d8	%	50-140		70

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6648614 Results were obtained based on the dry weight of the sample.
Samples are reported using dry weight detection limits, these limits may not have been met when moisture content is >30%.
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylenes + o-Xylene. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Calgary (unless marked by *)

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AGAT WORK ORDER: 25E269085

PROJECT: CA0009291.9178.1600.2485 West Channel

CLIENT NAME: WSP CANADA INC.

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

Dioxins and Furans (Soil) WHO 1998

DATE RECEIVED: 2025-04-10

DATE REPORTED: 2025-04-24

		SAMPLE DESCRIPTION:		WC25-Ash-01
		SAMPLE TYPE:		Other
		DATE SAMPLED:		2025-04-08 17:37
Parameter	Unit	G / S	RDL	6648614
2,3,7,8-Tetra CDD	ng/kg		0.1	<0.1
1,2,3,7,8-Penta CDD	ng/kg		0.1	0.2
1,2,3,4,7,8-Hexa CDD	ng/kg		0.1	<0.1
1,2,3,6,7,8-Hexa CDD	ng/kg		0.1	0.1
1,2,3,7,8,9-Hexa CDD	ng/kg		0.1	<0.1
1,2,3,4,6,7,8-Hepta CDD	ng/kg		0.1	0.7
Octa CDD	ng/kg		0.1	8.0
2,3,7,8-Tetra CDF	ng/kg		0.1	1.0
1,2,3,7,8-Penta CDF	ng/kg		0.1	0.4
2,3,4,7,8-Penta CDF	ng/kg		0.1	0.6
1,2,3,4,7,8-Hexa CDF	ng/kg		0.1	0.4
1,2,3,6,7,8-Hexa CDF	ng/kg		0.1	0.4
2,3,4,6,7,8-Hexa CDF	ng/kg		0.1	0.6
1,2,3,7,8,9-Hexa CDF	ng/kg		0.1	0.2
1,2,3,4,6,7,8-Hepta CDF	ng/kg		0.1	1.3
1,2,3,4,7,8,9-Hepta CDF	ng/kg		0.1	0.1
Octa CDF	ng/kg		0.1	0.7
Total Tetra CDD	ng/kg		0.1	5.6
Total Penta CDD	ng/kg		0.1	4.0
Total Hexa CDD	ng/kg		0.1	0.7
Total Hepta CDD	ng/kg		0.1	1.7
Total PCDDs	ng/kg		0.1	19.9
Total Tetra CDF	ng/kg		0.1	28.1
Total Penta CDF	ng/kg		0.1	7.8
Total Hexa CDF	ng/kg		0.1	3.7
Total Hepta CDF	ng/kg		0.1	1.9
Total PCDFs	ng/kg		0.1	42.2
2,3,7,8-Tetra CDD (TEQ)	ng TEQ/Kg			0
1,2,3,7,8-Penta CDD (TEQ)	ng TEQ/Kg			0.190

Certified By:

CHIMISTE Roza Mokhtari 2013-120 QUÉBEC

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Certificate of Analysis

AGAT WORK ORDER: 25E269085

PROJECT: CA0009291.9178.1600.2485 West Channel

CLIENT NAME: WSP CANADA INC.

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

Dioxins and Furans (Soil) WHO 1998

DATE RECEIVED: 2025-04-10

DATE REPORTED: 2025-04-24

				SAMPLE DESCRIPTION:	WC25-Ash-01
				SAMPLE TYPE:	Other
				DATE SAMPLED:	2025-04-08 17:37
Parameter	Unit	G / S	RDL	6648614	
1,2,3,4,7,8-Hexa CDD (TEQ)	ng TEQ/Kg			0	
1,2,3,6,7,8-Hexa CDD (TEQ)	ng TEQ/Kg			0.0102	
1,2,3,7,8,9-Hexa CDD (TEQ)	ng TEQ/Kg			0	
1,2,3,4,6,7,8-Hepta CDD (TEQ)	ng TEQ/Kg			0.00729	
Octa CDD (TEQ)	ng TEQ/Kg			0.000803	
2,3,7,8-Tetra CDF (TEQ)	ng TEQ/Kg			0.0977	
1,2,3,7,8-Penta CDF (TEQ)	ng TEQ/Kg			0.0219	
2,3,4,7,8-Penta CDF (TEQ)	ng TEQ/Kg			0.277	
1,2,3,4,7,8-Hexa CDF (TEQ)	ng TEQ/Kg			0.0365	
1,2,3,6,7,8-Hexa CDF (TEQ)	ng TEQ/Kg			0.0387	
2,3,4,6,7,8-Hexa CDF (TEQ)	ng TEQ/Kg			0.0569	
1,2,3,7,8,9-Hexa CDF (TEQ)	ng TEQ/Kg			0.0146	
1,2,3,4,6,7,8-Hepta CDF (TEQ)	ng TEQ/Kg			0.0133	
1,2,3,4,7,8,9-Hepta CDF (TEQ)	ng TEQ/Kg			0.00124	
Octa CDF (TEQ)	ng TEQ/Kg			0.0000729	
Total PCDDs and PCDFs (TEQ)	ng TEQ/Kg			0.766	

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AGAT WORK ORDER: 25E269085

PROJECT: CA0009291.9178.1600.2485 West Channel

CLIENT NAME: WSP CANADA INC.

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

Dioxins and Furans (Soil) WHO 1998

DATE RECEIVED: 2025-04-10

DATE REPORTED: 2025-04-24

		SAMPLE DESCRIPTION:	WC25-Ash-01
		SAMPLE TYPE:	Other
		DATE SAMPLED:	2025-04-08 17:37
Surrogate	**Unit**	**Acceptable Limits**	**6648614**
13C-2,3,7,8-TCDF	%	30-140	66
13C-1,2,3,7,8-PeCDF	%	30-140	70
13C-2,3,4,7,8-PeCDF	%	30-140	79
13C-1,2,3,4,7,8-HxCDF	%	30-140	79
13C-1,2,3,6,7,8-HxCDF	%	30-140	73
13C-2,3,4,6,7,8-HxCDF	%	30-140	82
13C-1,2,3,7,8,9-HxCDF	%	30-140	63
13C-1,2,3,4,6,7,8-HpCDF	%	30-140	73
13C-1,2,3,4,7,8,9-HpCDF	%	30-140	67
13C-2,3,7,8-TCDD	%	30-140	71
13C-1,2,3,7,8-PeCDD	%	30-140	63
13C-1,2,3,4,7,8-HxCDD	%	30-140	86
13C-1,2,3,6,7,8-HxCDD	%	30-140	78
13C-1,2,3,4,6,7,8-HpCDD	%	30-140	77
13C-OCDD	%	30-140	70

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6648614 LDR = LDE = Estimated Detection Limit
TEQ = Toxicity Equivalent
Toxicity Equivalency Factors (TEF) based on WHO 1998.
Results reported on a dry basis.
The results were corrected based on the surrogate percent recoveries.
The isotopic ratio of 1,2,3,7,8,9-HxCDF failed. It is quantified, but not included in the totals.

Analysis performed at AGAT Montréal (unless marked by *)

Certified By:

CHIMISTE Roza Mokhtari 2013-120 QUÉBEC

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Exceedance Summary

AGAT WORK ORDER: 25E269085

PROJECT: CA0009291.9178.1600.2485 West Channel

CLIENT NAME: WSP CANADA INC.

ATTENTION TO: Andrea Hachkowski

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
6648614	WC25-Ash-01	AB Class 2 Landfill	Metal - TCLP	Chromium - Leachate	mg/L	5.0	5.3

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Quality Assurance

CLIENT NAME: WSP CANADA INC.

AGAT WORK ORDER: 25E269085

PROJECT: CA0009291.9178.1600.2485 West Channel

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

Soil Analysis

RPT Date: Apr 24, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Metal - TCLP															
Antimony - Leachate	101	6648693	< 0.5	< 0.5	0.0%	< 0.5	70%	80%	120%				86%	80%	120%
Arsenic - Leachate	101	6648693	< 0.5	< 0.5	0.0%	< 0.5	93%	80%	120%				94%	80%	120%
Barium - Leachate	101	6648693	0.8	0.9	NA	< 0.5	102%	80%	120%				111%	80%	120%
Beryllium - Leachate	101	6648693	< 0.5	< 0.5	0.0%	< 0.5	99%	80%	120%				112%	80%	120%
Boron - Leachate	101	6648693	8.4	9.2	8.8%	< 0.5	99%	80%	120%				109%	80%	120%
Cadmium - Leachate	101	6648693	< 0.5	< 0.5	0.0%	< 0.5	95%	80%	120%				100%	80%	120%
Chromium - Leachate	101	6648693	< 0.5	< 0.5	0.0%	< 0.5	98%	80%	120%				110%	80%	120%
Cobalt - Leachate	101	6648693	< 0.5	< 0.5	0.0%	< 0.5	97%	80%	120%				94%	80%	120%
Copper - Leachate	101	6648693	< 0.5	< 0.5	0.0%	< 0.5	97%	80%	120%				111%	80%	120%
Iron - Leachate	101	6648693	1.8	1.9	NA	< 0.5	107%	80%	120%				109%	80%	120%
Lead - Leachate	101	6648693	< 0.5	< 0.5	0.0%	< 0.5	96%	80%	120%				93%	80%	120%
Mercury - Leachate	101	6648693	< 0.1	< 0.1	0.0%	< 0.1	106%	80%	120%				115%	80%	120%
Nickel - Leachate	101	6648693	< 0.5	< 0.5	0.0%	< 0.5	101%	80%	120%				111%	80%	120%
Selenium - Leachate	101	6648693	< 0.5	< 0.5	0.0%	< 0.5	104%	80%	120%				103%	80%	120%
Silver - Leachate	101	6648693	< 0.5	< 0.5	0.0%	< 0.5	94%	80%	120%				97%	80%	120%
Thallium - Leachate	101	6648693	< 0.5	< 0.5	0.0%	< 0.5	94%	80%	120%				105%	80%	120%
Uranium - Leachate	101	6648693	< 0.5	< 0.5	0.0%	< 0.5	102%	80%	120%				94%	80%	120%
Vanadium - Leachate	101	6648693	< 0.5	< 0.5	0.0%	< 0.5	99%	80%	120%				112%	80%	120%
Zinc - Leachate	101	6648693	< 1	< 1	0.0%	< 1	100%	80%	120%				102%	80%	120%
Zirconium - Leachate	101	6648693	< 0.5	< 0.5	0.0%	< 0.5	104%	80%	120%				113%	80%	120%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.
If Matrix spike value is NA, the spiked analyte concentration was lower than that of the matrix contribution.

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

TCLP Fluoride and Nitrate+Nitrite															
Fluoride Leachate	6648007	0.36	0.36	NA	< 0.10	109%	90%	110%	104%	90%	110%	98%	70%	130%	
(Nitrate + Nitrite) as N Leachate	6648917	<0.70	<0.70	NA	< 0.70	103%	80%	120%	100%	80%	120%	99%	70%	130%	

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

Cyanide WAD in Soil															
Cyanide, WAD	6653720	<0.040	<0.040	NA	< 0.040	106%	70%	130%	108%	80%	120%	92%	70%	130%	

Comments: NA signifies Not Applicable.
pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.

Duplicate NA: results are under 5X the RDL and will not be calculated.

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Quality Assurance

CLIENT NAME: WSP CANADA INC.

AGAT WORK ORDER: 25E269085

PROJECT: CA0009291.9178.1600.2485 West Channel

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

Soil Analysis (Continued)

RPT Date: Apr 24, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

Certified By:

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Quality Assurance

CLIENT NAME: WSP CANADA INC.

AGAT WORK ORDER: 25E269085

PROJECT: CA0009291.9178.1600.2485 West Channel

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

RPT Date: Apr 24, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
BTEX - TCLP															
Benzene (Leachate)	450414	6657691	<0.005	<0.005	NA	< 0.005	99%	60%	140%	96%	60%	140%	98%	60%	140%
Toluene (Leachate)	450414	6657691	<0.005	<0.005	NA	< 0.005	106%	60%	140%	97%	60%	140%	103%	60%	140%
Ethylbenzene (Leachate)	450414	6657691	<0.005	<0.005	NA	< 0.005	108%	60%	140%	100%	60%	140%	107%	60%	140%
m,p-Xylenes (Leachate)	450414	6657691	<0.005	<0.005	NA	< 0.005	102%	60%	140%	97%	60%	140%	105%	60%	140%
o-Xylene (Leachate)	450414	6657691	<0.005	<0.005	NA	< 0.005	101%	60%	140%	96%	60%	140%	105%	60%	140%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.
The sample spikes and dups are not from the same sample ID.

Polyaromatic Hydrocarbon Analysis - Solid(Alberta)

Acenaphthene	2381	6647020	< 0.005	< 0.005	NA	< 0.005	111%	50%	140%	112%	50%	140%	115%	50%	140%
Acenaphthylene	2381	6647020	< 0.005	< 0.005	NA	< 0.005	99%	50%	140%	108%	50%	140%	108%	50%	140%
Anthracene	2381	6647020	< 0.004	< 0.004	NA	< 0.004	103%	50%	140%	107%	50%	140%	109%	50%	140%
Acridine	2381	6647020	< 0.05	< 0.05	NA	< 0.05	108%	50%	140%	99%	50%	140%	106%	50%	140%
Quinoline	2381	6647020	< 0.05	< 0.05	NA	< 0.05	93%	50%	140%	106%	50%	140%	102%	50%	140%
Naphthalene	2381	6647020	0.006	0.006	NA	< 0.005	107%	50%	140%	110%	50%	140%	110%	50%	140%
2-Methylnaphthalene	2381	6647020	< 0.005	< 0.005	NA	< 0.005	105%	50%	140%	107%	50%	140%	108%	50%	140%
1-Methylnaphthalene	2381	6647020	0.014	0.017	NA	< 0.005	104%	50%	140%	107%	50%	140%	109%	50%	140%
Fluorene	2381	6647020	< 0.01	< 0.01	NA	< 0.01	100%	50%	140%	102%	50%	140%	103%	50%	140%
Phenanthrene	2381	6647020	< 0.02	< 0.02	NA	< 0.02	108%	50%	140%	112%	50%	140%	115%	50%	140%
Fluoranthene	2381	6647020	< 0.01	< 0.01	NA	< 0.01	110%	50%	140%	116%	50%	140%	125%	50%	140%
Pyrene	2381	6647020	< 0.01	< 0.01	NA	< 0.01	101%	50%	140%	106%	50%	140%	108%	50%	140%
Benzo[a]anthracene	2381	6647020	< 0.02	< 0.02	NA	< 0.02	103%	50%	140%	104%	50%	140%	104%	50%	140%
Chrysene	2381	6647020	< 0.05	< 0.05	NA	< 0.05	108%	50%	140%	107%	50%	140%	111%	50%	140%
Benzo[b+j]fluoranthene	2381	6647020	< 0.03	< 0.03	NA	< 0.03	96%	50%	140%	97%	50%	140%	99%	50%	140%
Benzo[k]fluoranthene	2381	6647020	< 0.02	< 0.02	NA	< 0.02	106%	50%	140%	102%	50%	140%	110%	50%	140%
Benzo[e]pyrene	2381	6647020	< 0.05	< 0.05	NA	< 0.05	100%	50%	140%	106%	50%	140%	106%	50%	140%
Benzo[a]pyrene	2381	6647020	< 0.03	< 0.03	NA	< 0.03	102%	50%	140%	100%	50%	140%	104%	50%	140%
Perylene	2381	6647020	< 0.05	< 0.05	NA	< 0.05	103%	50%	140%	105%	50%	140%	104%	50%	140%
Indeno[1,2,3-cd]pyrene	2381	6647020	< 0.02	< 0.02	NA	< 0.02	110%	50%	140%	94%	50%	140%	93%	50%	140%
Dibenzo[ah]anthracene	2381	6647020	< 0.005	< 0.005	NA	< 0.005	116%	50%	140%	96%	50%	140%	95%	50%	140%
Benzo[ghi]perylene	2381	6647020	< 0.05	< 0.05	NA	< 0.05	111%	50%	140%	100%	50%	140%	100%	50%	140%

Comments: Duplicate NA: results are less than 5X the RDL and RPD will not be calculated.
The sample spikes and dups are not from the same sample ID.

Volatile Organic Compounds in Solid (Methanol Field Stabilized)

Chloromethane	3670	6646786	<0.01	<0.01	NA	< 0.01	78%	50%	140%	113%	50%	140%	68%	50%	140%
Vinyl Chloride	3670	6646786	<0.0002	<0.0002	NA	< 0.00020	88%	50%	140%	140%	50%	140%	61%	50%	140%
Bromomethane	3670	6646786	<0.01	<0.01	NA	< 0.01	98%	50%	140%	140%	50%	140%	94%	50%	140%
Chloroethane	3670	6646786	<0.01	<0.01	NA	< 0.01	87%	50%	140%	122%	50%	140%	90%	50%	140%
Trichlorofluoromethane	3670	6646786	<0.01	<0.01	NA	< 0.01	86%	50%	140%	120%	60%	130%	80%	50%	140%

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Quality Assurance

CLIENT NAME: WSP CANADA INC.

AGAT WORK ORDER: 25E269085

PROJECT: CA0009291.9178.1600.2485 West Channel

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis (Continued)

RPT Date: Apr 24, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Acetone	3670	6646786	<0.2	<0.2	NA	< 0.2	81%	50%	140%	85%	50%	140%	75%	50%	140%
1,1-Dichloroethylene	3670	6646786	<0.01	<0.01	NA	< 0.010	67%	50%	140%	103%	60%	130%	64%	50%	140%
Methylene Chloride	3670	6646786	<0.01	<0.01	NA	< 0.010	135%	50%	140%	115%	60%	130%	71%	50%	140%
Methyl tert-Butyl Ether	3670	6646786	<0.01	<0.01	NA	< 0.010	117%	50%	140%	102%	60%	130%	97%	50%	140%
Methyl Ethyl Ketone	3670	6646786	<0.2	<0.2	NA	< 0.2	56%	50%	140%	61%	50%	140%	61%	50%	140%
trans-1,2-Dichloroethylene	3670	6646786	<0.01	<0.01	NA	< 0.01	123%	50%	140%	110%	60%	130%	70%	50%	140%
1,1-Dichloroethane	3670	6646786	<0.01	<0.01	NA	< 0.01	129%	50%	140%	118%	60%	130%	114%	50%	140%
cis-1,2-Dichloroethylene	3670	6646786	<0.01	<0.01	NA	< 0.01	73%	50%	140%	82%	60%	130%	61%	50%	140%
Chloroform	3670	6646786	<0.001	<0.001	NA	< 0.0010	82%	50%	140%	101%	60%	130%	67%	50%	140%
1,2-Dichloroethane	3670	6646786	<0.002	<0.002	NA	< 0.0020	64%	50%	140%	80%	60%	130%	62%	50%	140%
1,1,1-Trichloroethane	3670	6646786	<0.01	<0.01	NA	< 0.01	76%	50%	140%	97%	60%	130%	65%	50%	140%
Carbon Tetrachloride	3670	6646786	<0.0005	<0.0005	NA	< 0.0005	71%	50%	140%	92%	60%	130%	65%	50%	140%
Benzene	3670	6646786	<0.005	<0.005	NA	< 0.005	76%	50%	140%	108%	60%	130%	75%	50%	140%
1,2-Dichloropropane	3670	6646786	<0.01	<0.01	NA	< 0.01	64%	50%	140%	95%	60%	130%	65%	50%	140%
Trichloroethylene	3670	6646786	<0.004	<0.004	NA	< 0.004	66%	50%	140%	93%	60%	130%	69%	50%	140%
Bromodichloromethane	3670	6646786	<0.01	<0.01	NA	< 0.01	63%	50%	140%	87%	60%	130%	63%	50%	140%
trans-1,3-Dichloropropene	3670	6646786	<0.01	<0.01	NA	< 0.01	67%	50%	140%	73%	60%	130%	61%	50%	140%
Methyl Isobutyl Ketone	3670	6646786	<0.2	<0.2	NA	< 0.2	55%	50%	140%	68%	50%	140%	61%	50%	140%
cis-1,3-Dichloropropene	3670	6646786	<0.01	<0.01	NA	< 0.01	59%	50%	140%	83%	60%	130%	63%	50%	140%
1,1,2-Trichloroethane	3670	6646786	<0.01	<0.01	NA	< 0.01	66%	50%	140%	81%	60%	130%	64%	50%	140%
Toluene	3670	6646786	<0.01	<0.01	NA	< 0.01	77%	50%	140%	103%	60%	130%	76%	50%	140%
2-Hexanone	3670	6646786	<0.2	<0.2	NA	< 0.2	51%	50%	140%	51%	50%	140%	43%	50%	140%
Dibromochloromethane	3670	6646786	<0.01	<0.01	NA	< 0.01	59%	50%	140%	88%	60%	130%	75%	50%	140%
Ethylene Dibromide	3670	6646786	<0.01	<0.01	NA	< 0.01	55%	50%	140%	73%	60%	130%	62%	50%	140%
Tetrachloroethene	3670	6646786	<0.01	<0.01	NA	< 0.010	65%	50%	140%	87%	60%	130%	70%	50%	140%
1,1,1,2-Tetrachloroethane	3670	6646786	<0.01	<0.01	NA	< 0.01	68%	50%	140%	100%	60%	130%	66%	50%	140%
Chlorobenzene	3670	6646786	<0.01	<0.01	NA	< 0.01	68%	50%	140%	90%	60%	130%	76%	50%	140%
Ethylbenzene	3670	6646786	<0.01	<0.01	NA	< 0.010	72%	50%	140%	76%	60%	130%	63%	50%	140%
m,p-Xylenes	3670	6646786	<0.01	<0.01	NA	< 0.01	67%	50%	140%	79%	60%	130%	64%	50%	140%
Bromoform	3670	6646786	<0.01	<0.01	NA	< 0.01	62%	50%	140%	84%	60%	130%	76%	50%	140%
Styrene	3670	6646786	<0.01	<0.01	NA	< 0.01	68%	50%	140%	86%	60%	130%	74%	50%	140%
1,1,2,2-Tetrachloroethane	3670	6646786	<0.01	<0.01	NA	< 0.01	84%	50%	140%	90%	60%	130%	78%	50%	140%
o-Xylene	3670	6646786	<0.01	<0.01	NA	< 0.01	77%	50%	140%	91%	60%	130%	75%	50%	140%
1,3-Dichlorobenzene	3670	6646786	<0.01	<0.01	NA	< 0.01	62%	50%	140%	80%	60%	130%	75%	50%	140%
1,4-Dichlorobenzene	3670	6646786	<0.01	<0.01	NA	< 0.010	62%	50%	140%	88%	60%	130%	79%	50%	140%
1,2-Dichlorobenzene	3670	6646786	<0.01	<0.01	NA	< 0.010	72%	50%	140%	82%	60%	130%	76%	50%	140%
1,2,4-Trichlorobenzene	3670	6646786	<0.01	<0.01	NA	< 0.01	62%	50%	140%	67%	60%	130%	68%	50%	140%

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Quality Assurance

CLIENT NAME: WSP CANADA INC.

AGAT WORK ORDER: 25E269085

PROJECT: CA0009291.9178.1600.2485 West Channel

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis (Continued)

RPT Date: Apr 24, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Phenolic Compounds in Solid															
Phenol	1427	6648614	< 0.0012	< 0.0012	NA	< 0.0012	100%	50%	140%	104%	50%	140%	106%	50%	140%
4-Nitrophenol	1427	6648614	< 0.005	< 0.005	NA	< 0.005	99%	50%	140%	107%	50%	140%	110%	50%	140%
m&p-Cresol	1427	6648614	< 0.005	< 0.005	NA	< 0.005				106%	50%	140%	106%	50%	140%
o-Cresol	1427	6648614	< 0.005	< 0.005	NA	< 0.005				105%	50%	140%	105%	50%	140%
2-Chlorophenol	1427	6648614	< 0.005	< 0.005	NA	< 0.005	104%	50%	140%	106%	50%	140%	105%	50%	140%
2,4-Dinitrophenol	1427	6648614	< 0.005	< 0.005	NA	< 0.005	96%	30%	130%	108%	30%	130%	107%	30%	130%
2-Nitrophenol	1427	6648614	< 0.005	< 0.005	NA	< 0.005	101%	50%	140%	108%	50%	140%	107%	50%	140%
2,4-Dimethylphenol	1427	6648614	< 0.005	< 0.005	NA	< 0.005	100%	30%	130%	105%	30%	130%	104%	30%	130%
2,6-Dichlorophenol	1427	6648614	< 0.005	< 0.005	NA	< 0.005				104%	50%	140%	104%	50%	140%
4-Chloro-3-methylphenol	1427	6648614	< 0.005	< 0.005	NA	< 0.005	98%	50%	140%	105%	50%	140%	105%	50%	140%
2,4-Dichlorophenol	1427	6648614	< 0.0020	< 0.0020	NA	< 0.0020	96%	50%	140%	103%	50%	140%	104%	50%	140%
4,6-Dinitro-2-methylphenol	1427	6648614	< 0.005	< 0.005	NA	< 0.005	115%	50%	140%	103%	50%	140%	105%	50%	140%
2,3,6-Trichlorophenol	1427	6648614	< 0.005	< 0.005	NA	< 0.005				114%	50%	140%	101%	50%	140%
2,3,4-Trichlorophenol	1427	6648614	< 0.005	< 0.005	NA	< 0.005				111%	50%	140%	103%	50%	140%
2,4,6-Trichlorophenol	1427	6648614	< 0.005	< 0.005	NA	< 0.005	96%	50%	140%	109%	50%	140%	106%	50%	140%
2,4,5-Trichlorophenol	1427	6648614	< 0.005	< 0.005	NA	< 0.005				106%	50%	140%	110%	50%	140%
2,3,5-Trichlorophenol	1427	6648614	< 0.005	< 0.005	NA	< 0.005				101%	50%	140%	101%	50%	140%
3,4,5-Trichlorophenol	1427	6648614	< 0.005	< 0.005	NA	< 0.005				106%	50%	140%	108%	50%	140%
2,3,4,6-Tetrachlorophenol	1427	6648614	< 0.005	< 0.005	NA	< 0.005				110%	50%	140%	109%	50%	140%
2,3,5,6-Tetrachlorophenol	1427	6648614	< 0.005	< 0.005	NA	< 0.005				106%	50%	140%	105%	50%	140%
2,3,4,5-Tetrachlorophenol	1427	6648614	< 0.005	< 0.005	NA	< 0.005				107%	50%	140%	105%	50%	140%
Pentachlorophenol	1427	6648614	0.091	0.091	0.0%	< 0.005	96%	50%	140%	120%	50%	140%	106%	50%	140%

Comments: Duplicate NA: results are less than 5X the RDL and RPD will not be calculated.
The sample spikes and dups are not from the same sample ID.
Matrix spike: More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

Comments: Duplicate NA: results are less than 5X the RDL and RPD will not be calculated.

Certified By: Qiuhong Dong

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Quality Assurance

CLIENT NAME: WSP CANADA INC.

AGAT WORK ORDER: 25E269085

PROJECT: CA0009291.9178.1600.2485 West Channel

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

Ultra Trace Analysis

RPT Date: Apr 24, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Dioxins and Furans (Soil) WHO 1998															
2,3,7,8-Tetra CDD	1	6654538	< 0.1	< 0.1	NA	< 0.1	NA	70%	130%	91%	70%	130%	96%	70%	130%
1,2,3,7,8-Penta CDD	1	6654538	< 0.1	< 0.1	NA	< 0.1	NA	70%	130%	102%	70%	130%	103%	70%	130%
1,2,3,4,7,8-Hexa CDD	1	6654538	< 0.1	< 0.1	NA	< 0.1	NA	70%	130%	96%	70%	130%	100%	70%	130%
1,2,3,6,7,8-Hexa CDD	1	6654538	< 0.1	< 0.1	NA	< 0.1	NA	70%	130%	98%	70%	130%	102%	70%	130%
1,2,3,7,8,9-Hexa CDD	1	6654538	< 0.1	< 0.1	NA	< 0.1	NA	70%	130%	96%	70%	130%	99%	70%	130%
1,2,3,4,6,7,8-Hepta CDD	1	6654538	< 0.1	< 0.1	NA	< 0.1	NA	70%	130%	94%	70%	130%	97%	70%	130%
Octa CDD	1	6654538	< 0.1	< 0.1	NA	< 0.1	NA	70%	130%	98%	70%	130%	102%	70%	130%
2,3,7,8-Tetra CDF	1	6654538	< 0.1	< 0.1	NA	< 0.1	NA	70%	130%	99%	70%	130%	106%	70%	130%
1,2,3,7,8-Penta CDF	1	6654538	< 0.1	< 0.1	NA	< 0.1	NA	70%	130%	97%	70%	130%	100%	70%	130%
2,3,4,7,8-Penta CDF	1	6654538	< 0.1	< 0.1	NA	< 0.1	NA	70%	130%	97%	70%	130%	101%	70%	130%
1,2,3,4,7,8-Hexa CDF	1	6654538	< 0.1	< 0.1	NA	< 0.1	NA	70%	130%	102%	70%	130%	109%	70%	130%
1,2,3,6,7,8-Hexa CDF	1	6654538	< 0.1	< 0.1	NA	< 0.1	NA	70%	130%	102%	70%	130%	103%	70%	130%
2,3,4,6,7,8-Hexa CDF	1	6654538	< 0.1	< 0.1	NA	< 0.1	NA	70%	130%	100%	70%	130%	103%	70%	130%
1,2,3,7,8,9-Hexa CDF	1	6654538	< 0.1	< 0.1	NA	< 0.1	NA	70%	130%	101%	70%	130%	106%	70%	130%
1,2,3,4,6,7,8-Hepta CDF	1	6654538	< 0.1	< 0.1	NA	< 0.1	NA	70%	130%	99%	70%	130%	102%	70%	130%
1,2,3,4,7,8,9-Hepta CDF	1	6654538	< 0.1	< 0.1	NA	< 0.1	NA	70%	130%	108%	70%	130%	114%	70%	130%
Octa CDF	1	6654538	< 0.1	< 0.1	NA	< 0.1	NA	70%	130%	97%	70%	130%	100%	70%	130%
13C-2,3,7,8-TCDF	1	6654538	49	45%	0.0%	49	NA	30%	140%	54%	30%	140%	68%	30%	140%
13C-1,2,3,7,8-PeCDF	1	6654538	57	54%	0.0%	56	NA	30%	140%	63%	30%	140%	80%	30%	140%
13C-2,3,4,7,8-PeCDF	1	6654538	59	55%	0.0%	60	NA	30%	140%	67%	30%	140%	84%	30%	140%
13C-1,2,3,4,7,8-HxCDF	1	6654538	62	61%	0.0%	63	NA	30%	140%	71%	30%	140%	88%	30%	140%
13C-1,2,3,6,7,8-HxCDF	1	6654538	59	57%	0.0%	59	NA	30%	140%	66%	30%	140%	84%	30%	140%
13C-2,3,4,6,7,8-HxCDF	1	6654538	65	60%	0.0%	65	NA	30%	140%	73%	30%	140%	91%	30%	140%
13C-1,2,3,7,8,9-HxCDF	1	6654538	59	55%	0.0%	59	NA	30%	140%	66%	30%	140%	82%	30%	140%
13C-1,2,3,4,6,7,8-HpCDF	1	6654538	61	60%	0.0%	62	NA	30%	140%	70%	30%	140%	88%	30%	140%
13C-1,2,3,4,7,8,9-HpCDF	1	6654538	57	55%	0.0%	59	NA	30%	140%	71%	30%	140%	86%	30%	140%
13C-2,3,7,8-TCDD	1	6654538	55	52%	0.0%	54	NA	30%	140%	61%	30%	140%	78%	30%	140%
13C-1,2,3,7,8-PeCDD	1	6654538	55	53%	0.0%	57	NA	30%	140%	61%	30%	140%	75%	30%	140%
13C-1,2,3,4,7,8-HxCDD	1	6654538	68	64%	0.0%	68	NA	30%	140%	76%	30%	140%	97%	30%	140%
13C-1,2,3,6,7,8-HxCDD	1	6654538	63	59%	0.0%	62	NA	30%	140%	70%	30%	140%	87%	30%	140%
13C-1,2,3,4,6,7,8-HpCDD	1	6654538	65	64%	0.0%	67	NA	30%	140%	77%	30%	140%	96%	30%	140%
13C-OCDD	1	6654538	63	62%	0.0%	66	NA	30%	140%	81%	30%	140%	97%	30%	140%

Comments: NA : Non applicable.

If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

NA as the percentage of recovery for the matrix spike indicates that the result is not provided due to the heterogeneity of the sample or the spiked analyte concentration was lower than the matrix contribution.

NA in the spike blank or CRM indicates that it is not required by the procedure.

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Quality Assurance

CLIENT NAME: WSP CANADA INC.

AGAT WORK ORDER: 25E269085

PROJECT: CA0009291.9178.1600.2485 West Channel

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

Ultra Trace Analysis (Continued)

RPT Date: Apr 24, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

Certified By:

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QC Exceedance

CLIENT NAME: WSP CANADA INC.

AGAT WORK ORDER: 25E269085

PROJECT: CA0009291.9178.1600.2485 West Channel

ATTENTION TO: Andrea Hachkowski

RPT Date: Apr 24, 2025		REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Sample Id	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
			Lower	Upper		Lower	Upper		Lower	Upper
Metal - TCLP										
Antimony - Leachate	6648693	70%	80%	120%				86%	80%	120%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.
If Matrix spike value is NA, the spiked analyte concentration was lower than that of the matrix contribution.

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

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QC Exceedance

CLIENT NAME: WSP CANADA INC.

AGAT WORK ORDER: 25E269085

PROJECT: CA0009291.9178.1600.2485 West Channel

ATTENTION TO: Andrea Hachkowski

RPT Date: Apr 24, 2025		REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Sample Id	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
			Lower	Upper		Lower	Upper		Lower	Upper
Volatile Organic Compounds in Solid (Methanol Field Stabilized)										
2-Hexanone	6646786	51%	50%	140%	51%	50%	140%	43%	50%	140%

Comments: Duplicate NA: results are less than 5X the RDL and RPD will not be calculated.
The sample spikes and dups are not from the same sample ID.
Matrix spike: More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

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Method Summary

CLIENT NAME: WSP CANADA INC.

AGAT WORK ORDER: 25E269085

PROJECT: CA0009291.9178.1600.2485 West Channel

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Cyanide, WAD	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	SEGMENTED FLOW ANALYSIS
Antimony - Leachate	INOR-171-6011, INOR-6201	In-House Leachate; SM 3120B	ICP/OES
Arsenic - Leachate	INOR-171-6011, INOR-6201	In-House Leachate; SM 3120B	ICP/OES
Barium - Leachate	INOR-171-6011, INOR-6201	In-House Leachate; SM 3120B	ICP/OES
Beryllium - Leachate	INOR-171-6011, INOR-6201	In-House Leachate; SM 3120B	ICP/OES
Boron - Leachate	INOR-171-6011, INOR-6201	In-House Leachate; SM 3120B	ICP/OES
Cadmium - Leachate	INOR-171-6011, INOR-6201	In-House Leachate; SM 3120B	ICP/OES
Chromium - Leachate	INOR-171-6011, INOR-6201	In-In-House Leachate; SM 3120B	ICP/OES
Cobalt - Leachate	INOR-171-6011, INOR-6201	In-House Leachate; SM 3120B	ICP/OES
Copper - Leachate	INOR-171-6011, INOR-6201	In-House Leachate; SM 3120B	ICP/OES
Iron - Leachate	INOR-171-6011, INOR-6201	In-House Leachate; SM 3120B	ICP/OES
Lead - Leachate	INOR-171-6011, INOR-6201	In-House Leachate; SM 3120B	ICP/OES
Mercury - Leachate	INOR-171-6011, INOR-6201	In-House Leachate; SM 3120B	ICP/OES
Nickel - Leachate	INOR-171-6011, INOR-6201	In-House Leachate; SM 3120B	ICP/OES
Selenium - Leachate	INOR-171-6011, INOR-6201	In-House Leachate; SM 3120B	ICP/OES
Silver - Leachate	INOR-171-6011, INOR-6201	In-House Leachate; SM 3120B	ICP/OES
Thallium - Leachate	INOR-171-6011, INOR-6201	In-House Leachate; SM 3120B	ICP/OES
Uranium - Leachate	INOR-171-6011, INOR-6201	In-House Leachate; SM 3120B	ICP/OES
Vanadium - Leachate	INOR-171-6011, INOR-6201	In-House Leachate; SM 3120B	ICP/OES
Zinc - Leachate	INOR-171-6011, INOR-6201	In-House Leachate; SM 3120B	ICP/OES
Zirconium - Leachate	INOR-171-6011, INOR-6201	In-House Leachate; SM 3120B	ICP/OES
Fluoride Leachate	INOR-93-6000	EPA SW 846-1311; SM 4500F-C	ION SELECTIVE ELECTRODE
(Nitrate + Nitrite) as N Leachate	INOR-93-6053	EPA SW 846-1311 & modified from SM 4500 - NO3- I	LACHAT FIA

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Method Summary

CLIENT NAME: WSP CANADA INC.

AGAT WORK ORDER: 25E269085

PROJECT: CA0009291.9178.1600.2485 West Channel

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene (Leachate)	ORG-170-5100, -5430, -5440	"In-House Leachate" & EPA 624 & SW-846 5030	GC/MS
Toluene (Leachate)	ORG-170-5100, -5430, -5440	"In-House Leachate" & EPA 624 & SW-846 5030	GC/MS
Ethylbenzene (Leachate)	ORG-170-5100, -5430, -5440	"In-House Leachate" & EPA 624 & SW-846 5030	GC/MS
Xylenes (Leachate)	ORG-170-5100, -5430, -5440	"In-House Leachate" & EPA 624 & SW-846 5030	GC/MS
Toluene-d8 - Leachable (EDM)		"In-House Leachate" & EPA 624 & SW-846 5030	GC/MS
Phenol	TO-1200	"In house" developed method	HPLC
4-Nitrophenol	TO-1200	"In house" developed method	HPLC
m&p-Cresol	TO-1200	"In house" developed method	HPLC
o-Cresol	TO-1200	"In house" developed method	HPLC
2-Chlorophenol	TO-1200	"In house" developed method	HPLC
2,4-Dinitrophenol	TO-1200	"In house" developed method	HPLC
2-Nitrophenol	TO-1200	"In house" developed method	HPLC
2,4-Dimethylphenol	TO-1200	"In house" developed method	HPLC
2,6-Dichlorophenol	TO-1200	"In house" developed method	HPLC
4-Chloro-3-methylphenol	TO-1200	"In house" developed method	HPLC
2,4-Dichlorophenol	TO-1200	"In house" developed method	HPLC
4,6-Dinitro-2-methylphenol	TO-1200	"In house" developed method	HPLC
2,3,6-Trichlorophenol	TO-1200	"In house" developed method	HPLC
2,3,4-Trichlorophenol	TO-1200	"In house" developed method	HPLC
2,4,6-Trichlorophenol	TO-1200	"In house" developed method	HPLC
2,4,5-Trichlorophenol	TO-1200	"In house" developed method	HPLC
2,3,5-Trichlorophenol	TO-1200	"In house" developed method	HPLC
3,4,5-Trichlorophenol	TO-1200	"In house" developed method	HPLC
2,3,4,6-Tetrachlorophenol	TO-1200	"In house" developed method	HPLC
2,3,5,6-Tetrachlorophenol	TO-1200	"In house" developed method	HPLC
2,3,4,5-Tetrachlorophenol	TO-1200	"In house" developed method	HPLC
Pentachlorophenol	TO-1200	"In house" developed method	HPLC
2-Fluorophenol	TO-1200	"In house" developed method	HPLC
2,4,6-Tribromophenol	TO-1200	"In house" developed method	HPLC
Acenaphthene	TO 0210	EPA SW-846 3570 & 8270	GC/MS
Acenaphthylene	TO 0210	EPA SW-846 3570 & 8270	GC/MS
Anthracene	TO 0210	EPA SW-846 3570 & 8270	GC/MS
Acridine	TO 0210	EPA SW-846 3570 & 8270	GC/MS
Quinoline	TO 0210	EPA SW-846 3570 & 8270	GC/MS
Naphthalene	TO 0210	EPA SW-846 3570 & 8270	GC/MS
2-Methylnaphthalene	TO 0210	EPA SW-846 3570 & 8270	GC/MS
1-Methylnaphthalene	TO 0210	EPA SW-846 3570 & 8270	GC/MS
Fluorene	TO 0210	EPA SW-846 3570 & 8270	GC/MS
Phenanthrene	TO 0210	EPA SW-846 3570 & 8270	GC/MS
Fluoranthene	TO 0210	EPA SW-846 3570 & 8270	GC/MS
Pyrene	TO 0210	EPA SW-846 3570 & 8270	GC/MS
Benzo[a]anthracene	TO 0210	EPA SW-846 3570 & 8270	GC/MS
Chrysene	TO 0210	EPA SW-846 3570 & 8270	GC/MS
Benzo[b+j]fluoranthene	TO 0210	EPA SW-846 3570 & 8270	GC/MS
Benzo[k]fluoranthene	TO 0210	EPA SW-846 3570 & 8270	GC/MS

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Method Summary

CLIENT NAME: WSP CANADA INC.

AGAT WORK ORDER: 25E269085

PROJECT: CA0009291.9178.1600.2485 West Channel

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Benzo[e]pyrene	TO 0210	EPA SW-846 3570 & 8270	GC/MS
Benzo[a]pyrene	TO 0210	EPA SW-846 3570 & 8270	GC/MS
Perylene	TO 0210	EPA SW-846 3570 & 8270	GC/MS
Indeno[1,2,3-cd]pyrene	TO 0210	EPA SW-846 3570 & 8270	GC/MS
Dibenzo[ah]anthracene	TO 0210	EPA SW-846 3570 & 8270	GC/MS
Benzo[ghi]perylene	TO 0210	EPA SW-846 3570 & 8270	GC/MS
p-Terphenyl-d14 (PAH)	TO 0210	EPA SW-846 3570 & 8270	GC/MS
p-Naphthalene-d8 (PAH)	TO 0210	EPA SW-846 3570 & 8270	GC/MS
P_Pyrene-d10 (PAH)	TO 0210	EPA SW-846 3570 & 8270	GC/MS
B[a]P TPE		CCME	GC/MS
IACR (Coarse Soil)		CCME	GC/MS
IACR (Fine Soil)		CCME	GC/MS
Chloromethane	TO-0330	EPA SW-846 5030 & 8260	GC/MS
Vinyl Chloride	TO-0330	EPA SW-846 5030 & 8260	GC/MS
Bromomethane	TO-0330	EPA SW-846 5030 & 8260	GC/MS
Chloroethane	TO-0330	EPA SW-846 5030 & 8260	GC/MS
Trichlorofluoromethane	TO-0330	EPA SW-846 5030 & 8260	GC/MS
Acetone	TO-0330	EPA SW-846 5030 & 8260	GC/MS
1,1-Dichloroethylene	TO-0330	EPA SW-846 5030 & 8260	GC/MS
Methylene Chloride	TO-0330	EPA SW-846 5030 & 8260	GC/MS
Methyl tert-Butyl Ether	TO-0330	EPA SW-846 5030 & 8260	GC/MS
Methyl Ethyl Ketone	TO-0330	EPA SW-846 5030 & 8260	GC/MS
trans-1,2-Dichloroethylene	TO-0330	EPA SW-846 5030 & 8260	GC/MS
1,1-Dichloroethane	TO-0330	EPA SW-846 5030 & 8260	GC/MS
cis-1,2-Dichloroethylene	TO-0330	EPA SW-846 5030 & 8260	GC/MS
Chloroform	TO-0330	EPA SW-846 5030 & 8260	GC/MS
1,2-Dichloroethane	TO-0330	EPA SW-846 5030 & 8260	GC/MS
1,1,1-Trichloroethane	TO-0330	EPA SW-846 5030 & 8260	GC/MS
Carbon Tetrachloride	TO-0330	EPA SW-846 5030 & 8260	GC/MS
Benzene	TO-0330	EPA SW-846 5030 & 8260	GC/MS
1,2-Dichloropropane	TO-0330	EPA SW-846 5030 & 8260	GC/MS
Trichloroethylene	TO-0330	EPA SW-846 5030 & 8260	GC/MS
Bromodichloromethane	TO-0330	EPA SW-846 5030 & 8260	GC/MS
trans-1,3-Dichloropropene	TO-0330	EPA SW-846 5030 & 8260	GC/MS
Methyl Isobutyl Ketone	TO-0330	EPA SW-846 5030 & 8260	GC/MS
cis-1,3-Dichloropropene	TO-0330	EPA SW-846 5030 & 8260	GC/MS
1,1,2-Trichloroethane	TO-0330	EPA SW-846 5030 & 8260	GC/MS
Toluene	TO-0330	EPA SW-846 5030 & 8260	GC/MS
2-Hexanone	TO-0330	EPA SW-846 5030 & 8260	GC/MS
Dibromochloromethane	TO-0330	EPA SW-846 5030 & 8260	GC/MS
Ethylene Dibromide	TO-0330	EPA SW-846 5030 & 8260	GC/MS
Tetrachloroethene	TO-0330	EPA SW-846 5030 & 8260	GC/MS
1,1,1,2-Tetrachloroethane	TO-0330	EPA SW-846 5030 & 8260	GC/MS
Chlorobenzene	TO-0330	EPA SW-846 5030 & 8260	GC/MS
Ethylbenzene	TO-0330	EPA SW-846 5030 & 8260	GC/MS
m,p-Xylenes	TO-0330	EPA SW-846 5030 & 8260	GC/MS
Bromoform	TO-0330	EPA SW-846 5030 & 8260	GC/MS
Styrene	TO-0330	EPA SW-846 5030 & 8260	GC/MS
1,1,2,2-Tetrachloroethane	TO-0330	EPA SW-846 5030 & 8260	GC/MS
o-Xylene	TO-0330	EPA SW-846 5030 & 8260	GC/MS

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Method Summary

CLIENT NAME: WSP CANADA INC.

AGAT WORK ORDER: 25E269085

PROJECT: CA0009291.9178.1600.2485 West Channel

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,3-Dichlorobenzene	TO-0330	EPA SW-846 5030 & 8260	GC/MS
1,4-Dichlorobenzene	TO-0330	EPA SW-846 5030 & 8260	GC/MS
1,2-Dichlorobenzene	TO-0330	EPA SW-846 5030 & 8260	GC/MS
1,2,4-Trichlorobenzene	TO-0330	EPA SW-846 5030 & 8260	GC/MS
Total Xylenes	TO-0330	EPA SW-846 5030 & 8260	GC/MS
Toluene-d8	TO-0330	EPA SW-846 5030 & 8260	GC/MS

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SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Ultra Trace Analysis			
2,3,7,8-Tetra CDD	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
1,2,3,7,8-Penta CDD	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
1,2,3,4,7,8-Hexa CDD	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
1,2,3,6,7,8-Hexa CDD	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
1,2,3,7,8,9-Hexa CDD	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
1,2,3,4,6,7,8-Hepta CDD	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
Octa CDD	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
2,3,7,8-Tetra CDF	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
1,2,3,7,8-Penta CDF	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
2,3,4,7,8-Penta CDF	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
1,2,3,4,7,8-Hexa CDF	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
1,2,3,6,7,8-Hexa CDF	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
2,3,4,6,7,8-Hexa CDF	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
1,2,3,7,8,9-Hexa CDF	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
1,2,3,4,6,7,8-Hepta CDF	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
1,2,3,4,7,8,9-Hepta CDF	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
Octa CDF	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
Total Tetra CDD	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
Total Penta CDD	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
Total Hexa CDD	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
Total Hepta CDD	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
Total PCDDs	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
Total Tetra CDF	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
Total Penta CDF	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
Total Hexa CDF	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
Total Hepta CDF	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
Total PCDFs	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC

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ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
2,3,7,8-Tetra CDD (TEQ)	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
1,2,3,7,8-Penta CDD (TEQ)	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
1,2,3,4,7,8-Hexa CDD (TEQ)	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
1,2,3,6,7,8-Hexa CDD (TEQ)	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
1,2,3,7,8,9-Hexa CDD (TEQ)	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
1,2,3,4,6,7,8-Hepta CDD (TEQ)	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
Octa CDD (TEQ)	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
2,3,7,8-Tetra CDF (TEQ)	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
1,2,3,7,8-Penta CDF (TEQ)	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
2,3,4,7,8-Penta CDF (TEQ)	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
1,2,3,4,7,8-Hexa CDF (TEQ)	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
1,2,3,6,7,8-Hexa CDF (TEQ)	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
2,3,4,6,7,8-Hexa CDF (TEQ)	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
1,2,3,7,8,9-Hexa CDF (TEQ)	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
1,2,3,4,6,7,8-Hepta CDF (TEQ)	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
1,2,3,4,7,8,9-Hepta CDF (TEQ)	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
Octa CDF (TEQ)	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
Total PCDDs and PCDFs (TEQ)	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
13C-2,3,7,8-TCDF	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
13C-1,2,3,7,8-PeCDF	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
13C-2,3,4,7,8-PeCDF	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
13C-1,2,3,4,7,8-HxCDF	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
13C-1,2,3,6,7,8-HxCDF	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
13C-2,3,4,6,7,8-HxCDF	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
13C-1,2,3,7,8,9-HxCDF	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
13C-1,2,3,4,6,7,8-HpCDF	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
13C-1,2,3,4,7,8,9-HpCDF	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
13C-2,3,7,8-TCDD	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC

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EDMONTON, ALBERTA
CANADA T6B 3P9
TEL (780)395-2525
FAX (780)462-2490
http://www.agatlabs.com

Method Summary

CLIENT NAME: WSP CANADA INC.

AGAT WORK ORDER: 25E269085

PROJECT: CA0009291.9178.1600.2485 West Channel

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
13C-1,2,3,7,8-PeCDD	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
13C-1,2,3,4,7,8-HxCDD	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
13C-1,2,3,6,7,8-HxCDD	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
13C-1,2,3,4,6,7,8-HpCDD	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC
13C-OCDD	HR-151-5400F	CEAEQ MA.400 - DF 1.0; USEPA 1613	APGC

All parameters for environmental analyses are accredited by the Programme d'Accréditation des Laboratoires d'Analyse du Québec (PALA).
The addition of symbols in the legend provides supplementary information about the accreditation status of the parameter.

& PALA accreditation not available
† Not accredited
¿ Accredited by SCC (Standards Council of Canada)

AGAT Laboratories

Canadian Science and Technology in Action • Coast to Coast

2910 12 Street NE
Calgary, Alberta, T2E 7P7
P: 403.735.2005 • F: 403.735.2771
webearth.agatlabs.com

Laboratory Use Only
Arrival Temperature:
Cooler Quantity:
Hold Time:
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
AGAT Job Number:
Notes: 25E269085

AB-ECoC-WSP Canada IncApr102025-19

Chain of Custody Record

****Please note:** Making changes to the ECoC will change the ECoC number. Please complete the ECoC prior to noting the number for submission.

Client Information

Company: WSP Canada Inc
Consultant:
Contact: Andrea Hachkowski
Address: 237 4th ave,
Calgary, Alberta, T2P 4K3
Phone: 403-248-6386

Report Contact Information

1 **Name:** Andrea Hachkowski
Email: Andrea.hachkowski@wsp.com
2 **Name:** gld.shelldqr@wsp.com
Email: can-rpm-gen.equis@wsp.com
3 **Name:** joseph.hyrich@wsp.com
Email: ali.barron@wsp.com

Sample Matrix Legend

B Biota
GW Ground Water
O Oil
P Paint
S Soil
SD Sediment
SL Slurry
SW Surface Water
WW Waste Water

Relinquished By: Elizabeth Lenkic
Date of Submission: Apr 10 2025
AGAT Receipt:
(Date and time stamp) AB

Project Information

Region: Prairies
Client Project #: CA0009291.9178.1600.2485
Site Location: West Channel
Sampled By: Lisa Switzer
AGAT Quote # Quote #: 35076174088JK

Please Note: If quotation number is not provided client will be billed full price for analysis

Requirements (Selection may impact detection limits)

Regulation:
Regulation:
Regulation:
Regulation:
Regulation:
Other
Additional Notes:

Use Shell Rates. Please upload to facility code 41909243

Turnaround Time Required (TAT)

Please contact AGAT if RUSH testing is required. Corresponding Surcharge and Cutoff times applicable. Rush analysis may not be available for all tests.

Rush TAT Required
TAT: Same Day - 200% Surcharge
Date Required:

You must indicate the above ECoC number on the coolers when submitting to the laboratory.

Invoice To

Company: WSP Canada Inc
Contact:
Address:
Phone: **Email:** APayablesInvoice@wsp.co
PO/Credit Card#

'25 APR 10 9:08AM

#	Sample Identification	Depth	Date Sampled	Time Sampled	Sample Matrix	# Containers	COMMENTS - SITE SAMPLE INFO. SAMPLE CONTAINMENT	Field Filtered (Y/N)	Preserved (Y/N)	Cyanide WAD in Soil (93027)	Nitrate+Nitrite as N and Fluoride leachate (93001)	Leachable Metals (TCLP)	Leachable BTEX (TCLP)	Volatile Organic Compound Analysis, Standard Scan in Soil	Dioxins & Furans in soil (151000)	Polyaromatic Hydrocarbons (PAHs) in Soil	Chlorophenolic Compounds in Soil	Nitrilotriacetic acid (NTA; TCLP Leach)	TCLP Extraction (93296)	TCLP Zero-Headspace Extraction (54214)	TCLP EPA 1311 (101193)	HOLD for 30 days - No analysis	Hazardous (Y/N)
1	WC25-Ash-01		2025-04-08	05:37 PM	S	12				x	x	x	x	x	x	x	x	x					
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

AGAT Laboratories

SAMPLE INTEGRITY RECEIPT FORM

RECEIVING BASICS - Shipping

Company/Consultant: WSP

Courier: C. NORTH   Prepaid   Collect

Waybill# 518-4096 2121

Branch: **EDM** GP FN FM RD VAN LYD FSJ EST SASK Other:___

If multiple sites were submitted at once: Yes **No** (circled)

Custody Seal Intact: **Yes** (circled) No NA

TAT: **<24hr** (circled) 24-48hr 48-72hr Reg Other_______

Cooler Quantity: 1

TIME SENSITIVE ISSUES - Shipping

ALREADY EXCEEDED HOLD TIME? Yes **No** (circled)

Inorganic Tests (Please Circle): Mibi , BOD , Nitrate/Nitrite , Turbidity , Color , Microtox , Ortho PO4 , Tedlar Bag , Residual Chlorine , Chlorophyll* , Chloroamines*

Earliest Expiry:___________

Hydrocarbons: Earliest Expiry 22APR25

SAMPLE INTEGRITY - Shipping

Hazardous Samples: YES **NO** (circled) Precaution Taken:___________

Legal Samples: Yes **No** (circled)

International Samples: Yes **No** (circled)

Tape Sealed: Yes **No** (circled)

Coolant Used: Icepack **Bagged Ice** (circled) Free Ice Free Water None

Temperature (Bottles/Jars only) N/A if only Soil Bags Received

FROZEN (Please Circle if samples received Frozen)

1 (Bottle/**Jar**) 2.1 + 3.4 + 2.7 = 2.7 °C	2 (Bottle/Jar)___+___+___=____ °C
3 (Bottle/Jar)___+___+___=____ °C	4 (Bottle/Jar)___+___+___=____ °C
5 (Bottle/Jar)___+___+___=____ °C	6 (Bottle/Jar)___+___+___=____ °C
7 (Bottle/Jar)___+___+___=____ °C	8 (Bottle/Jar)___+___+___=____ °C
9 (Bottle/Jar)___+___+___=____ °C	10 (Bottle/Jar)___+___+___=____ °C

(If more than 10 coolers are received use another sheet of paper and attach)

LOGISTICS USE ONLY

Workorder No: 25E269085

Samples Damaged: Yes **No** (circled) If YES why?

No Bubble Wrap   Frozen   Courier

Other: ___________

Account Project Manager: ___________ have they been notified of the above issues: Yes No

Whom spoken to: ___________ Date/Time: ___________

CPM Initial_____

General Comments: Sending 2x jars & 2x vials for chlorophenol, PAH & VOC to CCTY-2010. Nitrilotriacetic acid (NTA): TCLP leach Farm-Out / 1xPB2 / 1x120ml for (Nitrilo... Mississauga & Senergy 2x250 AB Dioxins & Furans

* Subcontracted Analysis (See CPM)

Date issued: March 11, 2020
Document ID: SR-9505.004

518-YEV-40962121

518-YEV-40962121

Shipper's Name and Address / Nom et adresse de l'expediteur

WSP Canada Inc
Melissa Lind
155 Mackenzie road, unit 101 145
INUVIK
NORTHWEST TERRITORIES, CANADA
X0E 0T0 (403) 464-5613

Shipper's Account Number / No de compte de l'expediteur

NON NEGOTIABLE AIR WAYBILL (AIR CONSIGNMENT NOTE) NON NÉGOTIABLE LETTRE DE TRANSPORT AÉRIEN

CANADIAN NORTH

Incorporated in Canada with limited liability - Compagnie Canadienne a responsabilite limitee

Copies 1, 2, 3 and faximilies of this Air Waybill and originals and have the same validity.
Les exemplaires 1 2 3 et faximile de cette lettre de transport aerien sont originaux et ont la méme validité

Consignee Name and Address / Nom et adresse du destinataire

AGAT LABORATORIES LTD
Mary Grace Urena
6310 Roper Road NW
EDMONTON
Alberta, CANADA
T6E 6S4 (780) 850-6704

Consignee Account Number / No de compte du destinataire

Received in good order and condition / Reçu en bon état et apparent

at / à _____ Place / Lieu

on / le _____ Date / Time — Date / Heure

_____ / _____
Print Name (Consignee) - Nom en lettres moulées (Destinataire) — Signature

Issuing Carrier's Agent Name and City / Nom et ville de l'agent du transporteur emetteur

Agent's IATA Code / Code IATA de l'agent

Account Number / Numéro de compte

Accounting Information / Renseignements comptables

58727

WSP CANADA INC
1600 BOULEVARD RENE-LEVESQUE OUEST
MONTREAL
QC CANADA H3H 1P9
PO: CA0009291.9178-1800.2430

Airport of Departure / Aeroport de depart

YEV

Routing and destination						Currency Monnaie	CHGS Code Frais	WT / Poids-Val		Other/Autres		Declared Value for Carriage Valeur déclarée pour la transport	Declared value for Customs Valeur déclarée pour la douane
To / à	First carrier / premier transport	To / à	by / par	To / à	by / par			PPD payé	COLL Dû	PPD payé	COLL Dû		
YEG	5T					CDN	PX	X		X		NDV	NCV

Airport of Destination / Aeroport de destination

EDMONTON INTL

Flight Date / Vol Date

Delivery Company:

Pick-up Company:

Handling Information / Renseignements pour le traitement de l'expedition

KEEP COOL. DO NOT FREEZE DANGEROUS GOODS IN EXCEPTED QUANTITIES

DANGEROUS GOODS ☑ NO ☐ YES

NS - (Not Screened)

No. of Pieces Nombre de colis RCP	Gross Weight Poids brut	kg / lb	Rate Class / Classif. du tarif	Commodity	Chargeable Weight Poids de taxation	Rate / Charge Tarif / Montant	Total	Nature and Quantity of Goods (Inc. Dimensions or Volume) Nature et quantité des marchandises (y compris dimensions ou volume)
1	7	K	M	PRI	7	6.71	$60.89	PRIORITY CARGO - SAMPLES 40 x32 x28cm
1	7				7		$60.89	

Weight Charge / Taxation au poids
Prepaid / Porte paye: $60.89
Collect / Port du:

Valuation Charge / Taxation a la valeur

Tax / Taxe
$3.47

Total other Charges Due Agent / Total des autres frais dus a l'agent

Total other Charges Due Carrier / Total des autres frais dus au transporteur
$8.50

Total Prepaid / Total port payé
$72.86

Total collect / Total port du

Other Charges / Autres frais

CARGO SCREENING FEE - YEV = 8.50, GST/HST = 3.47

GST/HST Reg# R868435561RT QST Reg# 1016752505

Shipper certifies that the particulars on the face hereof are correct and that insofar as any part of the consignment contains dangerous goods, such part is properly described by name and is in proper condition for carriage by air according to the applicable Dangerous Goods Regulations.
L'expéditeur certifie que les indications portées sur le présent document sont exactes et que dans la mesure ou une partie quelconque de l'expédition contient des marchandises dangereuses, cette partie de d'expédition est correctement dénommée et bien préparée pour le transport par air conformément à la réglementation applicable.

_____ / _____
Name (Shipper) - Nom en lettres moulées (Expéditeur) — Signature

Executed on / Fait le: 09 Apr 2025 (Date) (Date) — YEV (Place) (Lieu) — 521276 Nom De L'agent / Agent's Name

For Carrier's use only at destination / Reserve au transporteur a destination

Charges at Desination / Frais à l'arrivée

Total Collect Charges / Total Du

Signature of Issuing Carrier or its Agent / Signature du transporteur emetteur ou de son agent

518-YEV-40962121

DELIVERY COPY - COPIE DE LIVRAISON

Custody Tracker

eCOC Number
IncApr102025-19

Please use this form when an electronic Chain of Custody (eCoC) is being used and a printed hard copy cannot be printed and included in the cooler for shipping. Please ensure that you have added the eCOC number in the box at the top right side of this form since this is what links the samples in this shipment to the eCoC that has already been submitted to the laboratory. This form must be included in the cooler with the samples with the number of coolers clearly noted on this form and on the custody seals.

Relinquished by				Received by			
Elizabeth Lenkic	Elizabeth Lenkic	Date (yyyy/mm/dd)	2025/04/08			Date (yyyy/mm/dd)	
Name (Print First and Last)	Signature	Time (24 hr)		Name (Print First and Last)	Signature	Time (24 hr)	
		Date (yyyy/mm/dd)				Date (yyyy/mm/dd)	
Name (Print First and Last)	Signature	Time (24 hr)		Name (Print First and Last)	Signature	Time (24 hr)	
		Date (yyyy/mm/dd)				Date (yyyy/mm/dd)	
Name (Print First and Last)	Signature	Time (24 hr)		Name (Print First and Last)	Signature	Time (24 hr)	

Information for Laboratory							
Sampler Name (Print First and Last)	#/# of Coolers on eCOC	Turnaround Time					
Elizabeth Lenkic	1 of 1	☐ Regular	☐ 50% Rush				
		☐ 25% Rush	☒ 100% Rush				
Receiving Laboratory (i.e., Location)	Received By:			Laboratory Observations			
		Date (yyyy/mm/dd)		Custody Seal		Cooling Media	Temperature (°C)
	Name (Print First and Last)			Present (Y/N)	Intact (Y/N)	Present (Y/N)	1 2 3
		Time (24 hr)					
	Signature						

WSP CANADA INC. DATA QUALITY REVIEW CHECKLIST

Site Location: West Channel

Sampling Date: April 8, 2025

WSP Project Number: CA0009291.9178-1600

Laboratory: AGAT - Edmonton

Lab Submission Number: 25E269085

Was the Cooler Received at the lab under a sealed and intact custody seal?	Yes
Was proper chain of custody of the samples documented and kept?	Yes
Were sample temperatures acceptable when they reached lab?:	Yes
Were all samples analyzed and extracted within hold times?:	Yes
Has lab warranted all tests were in statistical control in CoA?:	Yes
Was sufficient sample provided for the requested analysis?	Yes
Has lab warranted all samples were analyzed with limited headspace present?:	Yes

Are All Laboratory QC Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Surrogate Recovery	X			Matrix spike recovery for 2-hexanone (43%) below
Method Blank Concentration	X			the acceptance criteria of (50-140%).
Laboratory Duplicate RPD	X			All remaining laboratory QC results are within
Matrix Spike Recovery		X		acceptance criteria.
Blank Spike Recovery	X			

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Equipment Blank Concentration			X	No field QC samples were collected.
Field Blank Concentration			X	
Trip Blank Concentration			X	
Field Duplicate RPD			X	

Is data considered reliable (Yes/No/Suspect)?: Yes

If answer is "No" or "Suspect", describe and provide rationale:

Data Reviewed by (Print): Anita Colbert

Data Reviewed by (Signature): Anita Colbert

Date: April 24, 2025

6310 ROPER ROAD
EDMONTON, ALBERTA
CANADA T6B 3P9
TEL (780)395-2525
FAX (780)462-2490
http://www.agatlabs.com

CLIENT NAME: WSP CANADA INC.
237 - 4 AVE SW SUITE 3300
CALGARY, AB T2P 4K3
(403) 271-4442
ATTENTION TO: Andrea Hachkowski
PROJECT: CA0009291.9178.1800.2485
AGAT WORK ORDER: 25E313303
TRACE ORGANICS REVIEWED BY: Qiuhong Dong, Lab Technician A
WATER ANALYSIS REVIEWED BY: Melinda Guay, Technical Reviewer
DATE REPORTED: Jun 23, 2025
PAGES (INCLUDING COVER): 12
VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (780) 395-2525

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
- *AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.*
- *This Certificate shall not be reproduced except in full, without the written approval of the laboratory.*
- *The test results reported herewith relate only to the samples as received by the laboratory.*
- *Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.*
- *All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.*
- *This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.*
- *For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.*

AGAT Laboratories
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Certificate of Analysis

AGAT WORK ORDER: 25E313303

PROJECT: CA0009291.9178.1800.2485

CLIENT NAME: WSP CANADA INC.

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

WSP/Shell - Canada Project West Channel - PAH in Water

DATE RECEIVED: 2025-06-23

DATE REPORTED: 2025-06-23

				SAMPLE DESCRIPTION:	DW-1846-3-02	SW-1846-1-05
				SAMPLE TYPE:	Water	Water
				DATE SAMPLED:	2025-06-20 13:18	2025-06-20 14:00
Parameter	**Unit**	**G / S**	**RDL**		**6837205**	**6837207**
Acenaphthene	mg/L		0.00001		<0.00001	<0.00001
Anthracene	mg/L		0.000010		<0.000010	<0.000010
Fluoranthene	mg/L		0.00001		<0.00001	<0.00001
Fluorene	mg/L		0.00001		<0.00001	<0.00001
Naphthalene	mg/L		0.00001		<0.00001	<0.00001
Phenanthrene	mg/L		0.00001		<0.00001	<0.00001
Pyrene	mg/L		0.000010		<0.000010	<0.000010
Benzo(a)anthracene	mg/L		0.00001		<0.00001	<0.00001
Benzo(a)pyrene	mg/L		0.00001		<0.00001	<0.00001
Sediment					Trace	Trace
Surrogate	**Unit**	**Acceptable Limits**				
Naphthalene-d8	%	50-140			57	55
Pyrene-d10	%	50-140			68	71
p-Terphenyl-d14	%	50-140			73	74

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6837205-6837207 Based on GC/MS target ion analysis.
Isomers Benzo(b)fluoranthene and Benzo(j)fluoranthene have the same GC retention time and are reported as the sum based on the Benzo(b)fluoranthene response.
B[a]P TPE is a calculated parameter. It is calculated according to the Alberta Tier 1 Soil and Groundwater remediation Guidelines, May 23, 2014. Note that if the analysis returns non-detects for a parameter, ½ the detection limit is entered into the formulas.
Sediment parameter is comment only based on visual inspection of the sample prior to extraction and is not an accredited test.

Analysis performed at AGAT Edmonton (unless marked by *)

Certified By: Qiuhong Dong

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 25E313303

PROJECT: CA0009291.9178.1800.2485

CLIENT NAME: WSP CANADA INC.

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

WSP/Shell - Canada Project West Channel - PHC (BTEX) in Water

DATE RECEIVED: 2025-06-23

DATE REPORTED: 2025-06-23

				SAMPLE DESCRIPTION:	FB-W-T	TB-W-Y
				SAMPLE TYPE:	Water	Water
				DATE SAMPLED:	2025-06-20 14:10	2025-06-20 14:11
Parameter	**Unit**	**G / S**	**RDL**		**6837208**	**6837223**
Benzene	mg/L		0.0005		<0.0005	<0.0005
Toluene	mg/L		0.0003		<0.0003	<0.0003
Ethylbenzene	mg/L		0.0005		<0.0005	<0.0005
Xylenes	mg/L		0.0005		<0.0005	<0.0005
Surrogate	**Unit**	**Acceptable Limits**				
Toluene-d8 (BTEX)	%	60-140			100	108

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6837208-6837223 The F1 (C6 - C10) fraction is determined by integrating the FID chromatogram from the beginning of the nC6 peak to the apex of the last nC10 peak.
The C6 - C10 fraction is calculated from the FID toluene response factor.
Quality control for the calibration follows the guidelines set out in the CCME Contaminated Sites Method for Soils.
C6 –C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylenes + o-Xylene.
Extraction and holding times were met for this sample.
Sample is blank corrected.

Analysis performed at AGAT Edmonton (unless marked by *)

Certified By: Qiuhong Dong

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 25E313303

PROJECT: CA0009291.9178.1800.2485

CLIENT NAME: WSP CANADA INC.

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

WSP/Shell - Canada Project West Channel - TPH with BTEX in Water

DATE RECEIVED: 2025-06-23

DATE REPORTED: 2025-06-23

				SAMPLE DESCRIPTION:	DW-1846-3-02	SW-1846-1-05
				SAMPLE TYPE:	Water	Water
				DATE SAMPLED:	2025-06-20 13:18	2025-06-20 14:00
Parameter	**Unit**	**G / S**	**RDL**		**6837205**	**6837207**
Benzene	mg/L		0.0005		<0.0005	<0.0005
Toluene	mg/L		0.0003		<0.0003	<0.0003
Ethylbenzene	mg/L		0.0005		<0.0005	<0.0005
Xylenes	mg/L		0.0005		<0.0005	<0.0005
Total Petroleum Hydrocarbons	mg/L		0.1		<0.1	<0.1
Sediment					No	No
Surrogate	**Unit**	**Acceptable Limits**				
Toluene-d8 (BTEX)	%	60-140			107	109
o-Terphenyl (TEH)	%	60-140			114	111

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6837205-6837207 Total Purgeable Hydrocarbons (TPGH, n-C5 - n-C10); Purgeable compounds calculated based on toluene response.
Total Extractable Hydrocarbons (TEH, n-C10 - n-C32); Extractable compounds calculated based on the average of the n-C10, n-C16, and n-C34 which is also equal to the n-eicosane (n-C20) response.
Total Petroleum Hydrocarbons (TPH, n-C5 - n-C32) is a calculated parameter. The calculated value is the addition of n-C5 - n-C10 fraction (TPgH) and n-C10 - n-C32 fraction (TEH).
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylenes + o-Xylene.
Sample is blank corrected.
Sediment parameter is comment only based on visual inspection of the sample prior to extraction and is not an accredited test.

Analysis performed at AGAT Edmonton (unless marked by *)

Certified By: Qiuhong Dong

AGAT Laboratories

6310 ROPER ROAD
EDMONTON, ALBERTA
CANADA T6B 3P9
TEL (780)395-2525
FAX (780)462-2490
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 25E313303

PROJECT: CA0009291.9178.1800.2485

CLIENT NAME: WSP CANADA INC.

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

WSP/Shell - Water Analysis

DATE RECEIVED: 2025-06-23

DATE REPORTED: 2025-06-23

Parameter	Unit	G / S	RDL	SAMPLE DESCRIPTION: DW-1846-3-02 SAMPLE TYPE: Water DATE SAMPLED: 2025-06-20 13:18 6837205	SAMPLE DESCRIPTION: SW-1846-1-05 SAMPLE TYPE: Water DATE SAMPLED: 2025-06-20 14:00 6837207
pH	pH Units		NA	7.59	7.42
Ammonia,Total (as N)	mg/L		0.015	0.031	0.050
Total Lead	mg/L		0.0001	0.0010	0.0024
Total Mercury	mg/L		0.000005	0.000007	0.000013
Hardness	mg CaCO3/L		1	158	143
Total Suspended Solids	mg/L		1	28	112
Nitrate-N	mg/L		0.02	<0.02	0.11
Nitrite-N	mg/L		0.01	<0.01	<0.01

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Analysis performed at AGAT Edmonton (unless marked by *)

Certified By:

AGAT Laboratories

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Quality Assurance

CLIENT NAME: WSP CANADA INC.

AGAT WORK ORDER: 25E313303

PROJECT: CA0009291.9178.1800.2485

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

RPT Date:			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
WSP/Shell - Canada Project West Channel - PAH in Water															
Acenaphthene	50623	6446942	<0.00001	<0.00001	NA	< 0.00001	97%	50%	140%	88%	50%	140%	93%	50%	140%
Anthracene	50623	6446942	<0.	<0.	NA	< 0.000010	95%	50%	140%	75%	50%	140%	92%	50%	140%
Fluoranthene	50623	6446942	<0.00001	<0.00001	NA	< 0.00001	129%	50%	140%	113%	50%	140%	127%	50%	140%
Fluorene	50623	6446942	<0.00001	<0.00001	NA	< 0.00001	95%	50%	140%	85%	50%	140%	90%	50%	140%
Naphthalene	50623	6446942	<0.00001	<0.00001	NA	< 0.00001	80%	50%	140%	71%	50%	140%	75%	50%	140%
Phenanthrene	50623	6446942	<0.00001	<0.00001	NA	< 0.00001	119%	50%	140%	108%	50%	140%	117%	50%	140%
Pyrene	50623	6446942	<0.	<0.	NA	< 0.000010	99%	50%	140%	87%	50%	140%	95%	50%	140%
Benzo(a)anthracene	50623	6446942	<0.00001	<0.00001	NA	< 0.00001	101%	50%	140%	89%	50%	140%	95%	50%	140%
Benzo(a)pyrene	50623	6446942	<0.00001	<0.00001	NA	< 0.00001	96%	50%	140%	86%	50%	140%	93%	50%	140%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.
The sample spikes and dups are not from the same sample ID.

WSP/Shell - Canada Project West Channel - TPH with BTEX in Water															
Benzene	550622	6942	<0.0005	<0.0005	NA	< 0.0005	115%	60%	140%	120%	60%	140%	120%	60%	140%
Toluene	550622	6942	<0.0003	<0.0003	NA	< 0.0003	112%	60%	140%	113%	60%	140%	115%	60%	140%
Ethylbenzene	550622	6942	<0.0005	<0.0005	NA	< 0.0005	113%	60%	140%	110%	60%	140%	114%	60%	140%
m,p-Xylenes	550622	6942	< 0.0005	< 0.0005	NA	< 0.0005	104%	60%	140%	112%	60%	140%	116%	60%	140%
o-Xylene	550622	6942	< 0.0005	< 0.0005	NA	< 0.0005	100%	60%	140%	109%	60%	140%	109%	60%	140%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.
The sample spikes and dups are not from the same sample ID.

Certified By: Qiuhong Dong

AGAT Laboratories

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CANADA T6B 3P9
TEL (780)395-2525
FAX (780)462-2490
http://www.agatlabs.com

Quality Assurance

CLIENT NAME: WSP CANADA INC.

AGAT WORK ORDER: 25E313303

PROJECT: CA0009291.9178.1800.2485

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

Water Analysis

RPT Date:			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
WSP/Shell - Water Analysis															
pH	174	6836618	7.43	7.53	1.3%		100%	90%	110%						
Ammonia,Total (as N)	174	6828322	0.125	0.125	0.0%	< 0.015	106%	70%	130%	107%	80%	120%	108%	70%	130%
Total Lead	174	6835879	0.0152	0.0163	6.4%	< 0.0001	92%	70%	130%	94%	80%	120%	91%	70%	130%
Total Mercury	174	6837205	0.000007	0.000007	NA	< 0.000005	87%	70%	130%	102%	80%	120%	99%	70%	130%
Dissolved Calcium	174	6837205	46.4	45.0	3.1%	< 0.3	94%	70%	130%	90%	80%	120%	107%	70%	130%
Dissolved Magnesium	174	6837205	10.3	9.8	4.4%	< 0.2	88%	70%	130%	87%	80%	120%	103%	70%	130%
Total Suspended Solids	174	6836618	4	4	NA	< 1	84%	80%	120%				89%	80%	120%
Nitrate	174	6836618	1.8	1.8	NA	< 0.5	99%	70%	130%	106%	80%	120%	98%	70%	130%
Nitrite	174	6836618	<0.05	<0.05	NA	< 0.05	99%	70%	130%	99%	80%	120%	100%	70%	130%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

Certified By:

AGAT Laboratories

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Method Summary

CLIENT NAME: WSP CANADA INC.

AGAT WORK ORDER: 25E313303

PROJECT: CA0009291.9178.1800.2485

ATTENTION TO: Andrea Hachkowski

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Acenaphthene	ORG-170-5421	EPA SW-846 3510 & 8270	GC/MS
Anthracene	ORG-170-5421	EPA SW-846 3510 & 8270	GC/MS
Fluoranthene	ORG-170-5421	EPA SW-846 3510 & 8270	GC/MS
Fluorene	ORG-170-5421	EPA SW-846 3510 & 8270	GC/MS
Naphthalene	ORG-170-5421	EPA SW-846 3510 & 8270	GC/MS
Phenanthrene	ORG-170-5421	EPA SW-846 3510 & 8270	GC/MS
Pyrene	ORG-170-5421	EPA SW-846 3510 & 8270	GC/MS
Benzo(a)anthracene	ORG-170-5421	EPA SW-846 3510 & 8270	GC/MS
Benzo(a)pyrene	ORG-170-5421	EPA SW-846 3510 & 8270	GC/MS
Naphthalene-d8	ORG-170-5421	EPA SW-846 3510 & 8270	GC/MS
Pyrene-d10	ORG-170-5421	EPA SW-846 3510 & 8270	GC/MS
p-Terphenyl-d14	ORG-170-5420/-5421	EPA SW-846 3510 & 8270	GC/MS
Sediment	ORG-170-5421	EPA SW-846 3510 & 8270	GC/MS
Benzene	ORG-170-5110/5140/5430/5440	EPA SW846 8260	GC/MS
Toluene	ORG-170-5110/5140/5430/5440	EPA SW846 8260	GC/MS
Ethylbenzene	ORG-170-5110/5140/5430/5440	EPA SW846 8260	GC/MS
Xylenes	ORG-170-5110/5140/5430/5440	EPA SW846 8260	CALC
Toluene-d8 (BTEX)	ORG-170-5110/5140/5430/5440	EPA SW846 8260-W	GC/MS
Xylenes	ORG-170-5110/5140/5430/5440	EPA SW846 8260	GC/MS
Total Petroleum Hydrocarbons	ORG-170-5300 & ORG-170-5130	EPA 624 & SW-846 3810/3510, AEC A108.0	GC/FID
Toluene-d8 (BTEX)	ORG-170-5110/5140/5430/5440	EPA 624 & SW-846 5030	GC/MS
o-Terphenyl (TEH)	ORG-170-5120/5300	CCME Tier 1 Method	GC/FID
Sediment	ORG-170-5300, 170-5120	CCME Tier 1 Method	GC/FID
Water Analysis			
pH	INOR-171-6205	SM 4500 H+	PH METER
Ammonia,Total (as N)	INOR-171-6211	SM 4500-NH3 G	CONTINUOUS FLOW ANALYZER
Total Lead	INOR-171-6202	SM 3030 E; SM 3125 B	ICP-MS
Total Mercury	INOR-171-6204	SM 3125 B TW	CV/AA
Hardness		SM 3120 B	CALCULATION
Total Suspended Solids	INORG-171-6102	SM 2540 D	GRAVIMETRIC

AGAT Laboratories

Canadian Science and Technology in Action ▪ Coast to Coast

2910 12 Street NE
Calgary, Alberta T2E 7P7
P: 403.735.2005 • F: 403.735.2771
webearth.agatlabs.com

Laboratory Use Only
Arrival Temperature: 4.2°C
Cooler Quantity:
Hold Time:
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
AGAT Job Number: 25E313303
Notes:

AB-ECoC-WSP Canada IncJun222025-975

Chain of Custody Record

**Please note: Making changes to the ECoC will change the ECoC number. Please complete the ECoC prior to noting the number for submission.

Client Information

Company: WSP Canada Inc
Consultant:
Contact: Andrea Hachkowski
Address: 237 4th ave, Calgary, Alberta, T2P 4K3
Phone: 403-248-6386

Report Contact Information

1 **Name:** Andrea Hachkowski
Email: Andrea.hachkowski@wsp.com
2 **Name:** gld.SHELLDQR@wsp.com
Email: can-rpm-gen.equis@wsp.com
3 **Name:** joseph.hyrich@wsp.com
Email: ali.barron@wsp.com

Sample Matrix Legend

B Biota
GW Ground Water
O Oil
P Paint
S Soil
SD Sediment
SL Slurry
SW Surface Water
WW Waste Water

Relinquished By: Lisa Switzer
Date of Submission: Jun 22 2025
AGAT Receipt: AB
(Date and time stamp)

Project Information

Region: Prairies
Client Project #: CA0009291.9178.1800.2485
Site Location: West Channel
Sampled By:
AGAT Quote #

Please Note: If quotation number is not provided client will be billed full price for analysis.

Requirements (Selection may impact detection limits)

Regulation:
Regulation:
Regulation:
Regulation:
Regulation:
Other

Additional Notes:

Use Shell Rates. Please upload to facility code 41909243

Turnaround Time Required (TAT)

Please contact AGAT if RUSH testing is required. Corresponding Surcharge and Cutoff times applicable. Rush analysis may not be available for all tests.

Rush TAT Required
TAT Same Day - 200% Surcharge
Date Required

You must indicate the above ECoC number on the coolers when submitting to the laboratory.

Invoice To

Company: WSP Canada Inc
Contact:
Address:
Phone: **Email:** APayablesinvoice@wsp.co
PO/Credit Card#

'25 JUN 23 10:46 AM

#	Sample Identification	Depth	Date Sampled	Time Sampled	Sample Matrix	# Containers	COMMENTS - SITE SAMPLE INFO. SAMPLE CONTAINMENT	Field Filtered (Y/N)	Preserved (Y/N)	BTEX(S) in Water	Polyaromatic Hydrocarbons (PAHs) in Water	Total Petroleum Hydrocarbons (TPH) in Water	Ammonia in Water	total Lead	Mercury in Water	Hardness in Water (Cation Analysis)	Solids, Total Suspended (TSS)	nitrate, nitrite	pH, Water and temperature	HOLD for 30 days - No analysis	Hazardous (Y/N)
1	DW-1846-3-02		2025-06-20	01:18 PM	SW	14				x	x	x	x	x	x	x	x	x	x		
2	SW-1846-1-05		2025-06-20	02:00 PM	SW	14				x	x	x	x	x	x	x	x	x	x		
3	FB-W-T		2025-06-20	02:10 PM	SW	2				X											
4	TB-W-Y		2025-06-20	02:11 PM	SW	2				X											
5																					
6																					
7																					
8																					
9																					
10																					
11																					

Custody Tracker

eCOC Number
WSP-979

Please use this form when an electronic Chain of Custody (eCoC) is being used and a printed hard copy cannot be printed and included in the cooler for shipping. Please ensure that you have added the eCOC number in the box at the top right side of this form since this is what links the samples in this shipment to the eCoC that has already been submitted to the laboratory. This form must be included in the cooler with the samples with the number of coolers clearly noted on this form and on the custody seals.

Relinquished by				Received by			
Lisa Switzer Name (Print First and Last)	Signature	Date (yyyy/mm/dd)	2025/06/20	Name (Print First and Last)	Signature	Date (yyyy/mm/dd)	
		Time (24 hr)	1800			Time (24 hr)	
Name (Print First and Last)	Signature	Date (yyyy/mm/dd)		Name (Print First and Last)	Signature	Date (yyyy/mm/dd)	
		Time (24 hr)				Time (24 hr)	
Name (Print First and Last)	Signature	Date (yyyy/mm/dd)		Name (Print First and Last)	Signature	Date (yyyy/mm/dd)	
		Time (24 hr)				Time (24 hr)	

Information for Laboratory							
Sampler Name (Print First and Last)	#/# of Coolers on eCOC	Turnaround Time					
Lisa Switzer	1 of 1	☐ Regular	☐ 50% Rush				
		☐ 25% Rush	☑ 100% Rush				
Receiving Laboratory (i.e., Location)	Received By:	Laboratory Observations					
		Date (yyyy/mm/dd)		Custody Seal		Cooling Media	Temperature (°C)
	Name (Print First and Last)			Present (Y/N)	Intact (Y/N)	Present (Y/N)	1 2 3
		Time (24 hr)					
	Signature						

AGAT Laboratories

SAMPLE INTEGRITY RECEIPT FORM

Company/Consultant: WSP

Courier: C. NORTH Prepaid Collect

Waybill# 518-4733 7920

Branch: CGY (EDM) EST FM FN FSJ GP LYD RD TCE VAN WH AZ

Multiple sites (LSDs) submitted at once: YES (NO)

Custody Seal Intact: (YES) NO N/A

COC submitted with samples: YES NO ECOC to follow

➥ If NO: PROJECT #/LSD: _____

TAT: (<24HR) 24-48HR 48-72HR 72-96HR 5 DAY REG OTHER _____

Cooler Quantity: 1 Quantity Coolers with Weight >50 lbs: Ø

SAMPLE INTEGRITY

Hazardous Samples: YES (NO)

Legal Samples: YES (NO)

International Samples: YES (NO)

Are Containers Tape Sealed? YES (NO) If yes: What kind? _____

Coolant Used: Icepack (Bagged Ice) Free Ice Free Water/Melted Ice

After Hours Fridge Snow None Other: _____

➥ **Free Water/Melted Ice – samples submerged in water?** YES (NO) (N/A)

Coolant added by client upon submission: YES NO (N/A)

Tedlar Bags – bags rec'd intact (full): YES NO (N/A)

Are MeOH vials packed separately from jars? YES NO (N/A)

➥ **Are Alcohols requested on COC?** YES NO (N/A)

➥ _____

TIME SENSITIVE

ALREADY EXCEEDED HOLD TIME? YES (NO)

Common Tests (Please Circle): Aldehydes, BOD, Color, Chlorine, Chloramines*, Chlorophyll*, Ferric/Ferrous Iron, MiBi, Microtox, Nitrate/Nitrite, O-PO4, Solids (Fixed/Total/Volatile), Toxicity/LC50, Turbidity, Tedlar Bag – Breathing Air

Earliest Expiry: 23JUNE25

Hydrocarbons: Earliest Expiry: 04JULY25

TEMPERATURE (Bottles/Jars only) – N/A (Only Soil Bags Received)

FROZEN (Please Circle if samples received Frozen)

1 (Bottle/Jar) 4.3 + 4.1 + 4.1 = 4.2 °C

2 (Bottle/Jar)____+____+____=____ °C

3 (Bottle/Jar)____+____+____=____ °C

4 (Bottle/Jar)____+____+____=____ °C

5 (Bottle/Jar)____+____+____=____ °C

6 (Bottle/Jar)____+____+____=____ °C

7 (Bottle/Jar)____+____+____=____ °C

8 (Bottle/Jar)____+____+____=____ °C

9 (Bottle/Jar)____+____+____=____ °C

10 (Bottle/Jar)____+____+____=____ °C

(If more than 10 coolers are received use another sheet of paper and attach)

LOGISTICS USE ONLY

Workorder No: 25E313303

Samples Damaged: YES (NO)

If YES, why? No Bubble Wrap Frozen Courier

Other: _____

General Comments: _____

518-YEV-47337920

518-YEV-47337920

NON NEGOTIABLE
AIR WAYBILL
(AIR CONSIGNMENT NOTE)
NON NÉGOTIABLE
LETTRE DE TRANSPORT AÉRIEN

CANADIAN NORTH

Incorporated in Canada with limited liability - Compagnie Canadienne a responsabilite limitee

Copies 1, 2, 3 and faximilies of this Air Waybill and originals and have the same validity.
Les exemplaires 1 2 3 et faximile de cette lettre de transport aerien sont originaux et ont la même validité

Shipper's Name and Address / Nom et adresse de l'expediteur

WSP Canada Inc
Ron Zapisocki
155 Mackenzie road, unit 101 145
INUVIK
NORTHWEST TERRITORIES, CANADA
X0E 0T0 (368) 882-3030

Shipper's Account Number / No de compte de l'expediteur

Consignee Name and Address / Nom et adresse du destinataire

AGAT LABORATORIES LTD
1759 - 35 Avenue, East
EDMONTON
Alberta, CANADA
T9E 0V6 (780) 850-6704

Consignee Account Number / No de compte du destinataire

Received in good order and condition — Reçu en bon état et apparent

at / à _____ (Place / Lieu) on / le _____ (Date / Time — Date / Heure)

_____ (Print Name (Consignee) - Nom en lettres moulées (Destinataire)) / _____ (Signature)

Issuing Carrier's Agent Name and City / Nom et ville de l'agent du transporteur emetteur

Accounting Information / Renseignements comptables

58727

WSP CANADA INC
1600 BOULEVARD RENE-LEVESQUE OUEST
MONTREAL
QC CANADA H3H 1P9
PO: CA0009291.9178-1800-2420

Agent's IATA Code / Code IATA de l'agent

Account Number / Numéro de compte

Airport of Departure / Aeroport de depart

YEV

Routing and destination						Currency	CHGS Code	WT / Poids-Val		Other/Autres		Declared Value for Carriage / Valeur déclarée pour le transport	Declared value for Customs / Valeur déclarée pour la douane
To / à	First carrier / premier transport	To / à	by / par	To / à	by / par			PPD payé	COLL DÛ	PPD payé	COLL DÛ		
YEG	5T					CDN	PX	X		X		NDV	NCV

Airport of Destination / Aeroport de destination

EDMONTON INTL

Flight Date / Vol Date

Delivery Company:

Pick-up Company:

Handling Information / Renseignements pour le traitement de l'expedition

KEEP COOL. DO NOT FREEZE DANGEROUS GOODS IN EXCEPTED QUANTITIES

DANGEROUS GOODS ☑ NO ☐ YES

AS - (Actively Screened)

No. of Pieces / Nombre de colis RCP	Gross Weight / Poids brut	kg / lb		Rate Class / Classif. du tarif	Commodity	Chargeable Weight / Poids de taxation	Rate / Charge / Tarif / Montant	Total	Nature and Quantity of Goods (Inc. Dimensions or Volume) / Nature et quantité des marchandises (y compris dimensions ou volume)
1	12	K	N	PRI		12	6.71	$80.52	PRIORITY CARGO - SAMPLES 64 x35 x36cm
1	12					12		$80.52	

OK TO RELEASE

Prepaid / Porte paye: $80.52	Weight Charge / Taxation au poids — Collect / Port du
Valuation Charge	Taxation a la valeur
Tax: $4.45	Taxe
Total other Charges Due Agent	Total des autres frais dus a l'agent
Total other Charges Due Carrier: $8.50	Total des autres frais dus au transporteur
Total Prepaid / Total port paye: $93.47	Total collect / Total port du

Other Charges / Autres frais

CARGO SCREENING FEE - YEV = 8.50, GST/HST = 4.45

GST/HST Reg# R868435561RT QST Reg# 1016752505

Shipper certifies that the particulars on the face hereof are correct and that insofar as any part of the consignment contains dangerous goods, such part is properly described by name and is in proper condition for carriage by air according to the applicable Dangerous Goods Regulations.
L'expéditeur certifie que les indications portées sur le présent document sont exactes et que dans la mesure ou une partie quelconque de l'expédition contient des marchandises dangereuses, cette partie de d'expédition est correctement dénommée et bien préparée pour le transport par air conformément à la réglementation applicable.

_____ (Name (Shipper) - Nom en lettres moulées (Expéditeur)) / _____ (Signature)

Executed on / Fait le: 21 Jun 2025 (Date) (Date) — YEV (Place) (Lieu) — 521276 (Nom De L'agent / Agent's Name)

For Carrier's use only at destination / Reserve au transporteur a destination	Charges at Desination / Frais à l'arrivée	Total Collect Charges / Total Du

Signature of Issuing Carrier or its Agent / Signature du transporteur emetteur ou de son agent

518-YEV-47337920

DELIVERY COPY - COPIE DE LIVRAISON

WSP CANADA INC. DATA QUALITY REVIEW CHECKLIST

Site Location: West Channel

Sampling Date: June 20, 2025

WSP Project Number: CA0009291.9178-1600

Laboratory: AGAT - Edmonton

Lab Submission Number: 25E313303

Was the Cooler Received at the lab under a sealed and intact custody seal?	Yes
Was proper chain of custody of the samples documented and kept?	Yes
Were sample temperatures acceptable when they reached lab?:	Yes
Were all samples analyzed and extracted within hold times?:	Yes
Has lab warranted all tests were in statistical control in CoA?:	Yes
Was sufficient sample provided for the requested analysis?	Yes
Has lab warranted all samples were analyzed with limited headspace present?:	Yes

Are All Laboratory QC Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Surrogate Recovery	X			All laboratory QC results are within
Method Blank Concentration	X			acceptance criteria.
Laboratory Duplicate RPD	X			
Matrix Spike Recovery	X			
Blank Spike Recovery	X			

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Equipment Blank Concentration			X	All field QC samples are within
Field Blank Concentration	X			alert limits.
Trip Blank Concentration	X			
Field Duplicate RPD			X	

Is data considered reliable (Yes/No/Suspect)?: Yes

If answer is "No" or "Suspect", describe and provide rationale:

Data Reviewed by (Print): Anita Colbert

Data Reviewed by (Signature): Anita Colbert

Date: June 30, 2025

APPENDIX D

Surveillance Network Program Results

Table D1
Surveillance Network Program Analytical Results - Petroleum Hydrocarbons
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

SNP Station #	Sample Location	Sample ID	AGAT Laboratories Work Order COA	AGAT Laboratories Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	Total Petroleum Hydrocarbons	Discharge Request # [2]
					Discharge Water [1]	**0.37**	**0.002**	**0.09**	**0.03**	**5**	
					Units	mg/L	mg/L	mg/L	mg/L	mg/L	
1846-1	**SW-1846-1-05**	SW-1846-1-05	25E313303	6837207	20-Jun-2025	<0.0005	<0.0003	<0.0005	<0.0005	<0.1	n/a
1846-3	**DW-1846-3-02**	DW-1846-3-02	25E313303	6837205	20-Jun-2025	<0.0005	<0.0003	<0.0005	<0.0005	<0.1	16

Notes:

Bold - value exceeds applied guideline, standard or criteria

[1] Groundwater discharge, maximum allowable concentrations (IWB 2024).

[2] Analytical results provided to the Environment and Climate Change Inspector for approval to discharge.

COA - certificate of analysis

mg/L - milligrams per litre

n/a - not applicable; SNP Station 1846-1 is water drawn from West Channel for use on the Site.

SNP - Surveillance Network Program

< - less than

Table D2
Surveillance Network Program Analytical Results - Polycyclic Aromatic Hydrocarbons
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

SNP Station #	Sample Location	Sample ID	AGAT Laboratories Work Order COA	AGAT Laboratories Sample ID	Sample Date	Acenaphthene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Discharge Request # [2]
					Discharge Water [1]	**0.0058**	**0.000012**	**0.000018**	**0.000015**	**0.00004**	**0.003**	**0.0011**	**0.0004**	**0.000025**	
					Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
1846-1	**SW-1846-1-05**	SW-1846-1-05	25E313303	6837207	20-Jun-2025	<0.00001	<0.000010	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.000010	n/a
1846-3	**DW-1846-3-02**	DW-1846-3-02	25E313303	6837205	20-Jun-2025	<0.00001	<0.000010	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.000010	16

Notes:

Bold - value exceeds applied guideline, standard or criteria

[1] Groundwater discharge, maximum allowable concentrations (IWB 2024).

[2] Analytical results provided to the Environment and Climate Change Inspector for approval to discharge.

COA - certificate of analysis

mg/L - milligrams per litre

n/a - not applicable; SNP Station 1846-1 is water drawn from West Channel for use on the Site.

SNP - Surveillance Network Program

< - less than

Table D3
Surveillance Network Program Analytical Results - Inorganics
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

SNP Station #	Sample Location	Sample ID	AGAT Laboratories Work Order COA	AGAT Laboratories Sample ID	Sample Date	Ammonia as Nitrogen	Hardness	pH	Dissolved Nitrate as Nitrogen	Dissolved Nitrite as Nitrogen	Total Lead	Total Mercury	Total Suspended Solids	Discharge Request # [2]
					Discharge Water [1]	**11.6[a]**	**–**	**9**	**3**	**0.06**	**0.001 to 0.007[b]**	**0.000026**	**30[c]**	
					Units	mg/L	mg/L	pH units	mg/L	mg/L	mg/L	mg/L	mg/L	
1846-1	**SW-1846-1-05**	SW-1846-1-05	25E313303	6837207	20-Jun-2025	0.05	143	7.42	0.11	<0.01	0.0024	0.000013	**112**	n/a
1846-3	**DW-1846-3-02**	DW-1846-3-02	25E313303	6837205	20-Jun-2025	0.031	158	7.59	<0.02	<0.01	0.001	0.000007	28	16

Notes:

Bold - value exceeds applied guideline, standard or criteria

[1] Groundwater discharge, maximum allowable concentrations (IWB 2024).

[2] Analytical results provided to the Environment and Climate Change Inspector for approval to discharge.

[a] Guideline value for the protection of aquatic life varies with water pH and temperature. The selected value is based on an assumed pH of 7 and a temperature of 6 degrees Celsius.

[b] When hardness is ≤60 mg/L calcium carbonate ($CaCO_3$), maximum lead concentration is 0.001 mg/L. When hardness is >60 mg/L and <180 mg/L $CaCO_3$, maximum lead concentration is $e^{\{1.273[\ln(\text{hardness})] - 0.475\}}$. When hardness is >180 mg/L $CaCO_3$, maximum lead concentration is 0.007 mg/L (IWB 2024).

[c] Elevated value based on SNP Station 1846-1 analytical results for TSS, as agreed with the IWB and ECC Inspector (Gruben 2024, pers. comm.).

COA - certificate of analysis

mg/L - milligrams per litre

n/a - not applicable; SNP Station 1846-1 is water drawn from West Channel for use on the Site.

SNP - Surveillance Network Program

> - greater than

< - less than

≤ - less than or equal to

– not available

Table D4
Surveillance Network Program - Water Source and Discharge Locations
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

SNP Station #	Source Locations		Discharge Locations	
	Name	Coordinates	Name	Coordinates
1846-1	West Channel spring/summer location	N 68.476530, W 135.557627	n/a	n/a
1846-1	West Channel winter location	N 68.476368, W 135.563168	n/a	n/a
1846-3	EX-A	N 68.475961, W 135.558342	Discharge 4	N 68.475320 W 135.558106

Notes:
n/a - not applicable
SNP - Surveillance Network Program

Table D5
Surveillance Network Program - Non-Treated Water Discharge Summary
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Discharge Request # [1]	Approval Date [1]	Sample ID	AGAT Laboratories Work Order COA	Discharge Date	Source	Total Volume (m^3)	Discharge Point	Daily Discharged (m^3)	Monthly Discharged (m^3)	Annual Discharged (m^3)
16	26-Jun-25	DW-1846-3-02	25E313303	28-Jun-25	EX-A	69	Discharge 4	69	405	405
				29-Jun-25	EX-A	198	Discharge 4	198		
				30-Jun-25	EX-A	138	Discharge 4	138		

Notes:

[1] Analytical results provided to the Environment and Climate Change Inspector for approval to discharge.

COA - certificate of analysis

m^3 - cubic metres

- Surface water pumped from topographic lows prior to the start of excavation activities at the Site. No samples were collected for analytical assesssment.

Table D6
Surveillance Network Program - Quench Tower Water Evaporation Summary
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Evaporation Date	Source	Evaporation Location	Daily Evaporated (m^3)	Monthly Evaporated (m^3)	Annual Evaporated (m^3)
06-Jul-25	Bladder 2	Quench Tower	10.0	288	334
07-Jul-25	Bladder 4	Quench Tower	10.0		
08-Jul-25	Bladder 2	Quench Tower	10.4		
09-Jul-25	Bladder 2	Quench Tower	10.4		
	Bladder 2	Quench Tower	10.7		
10-Jul-25	Bladder 2	Quench Tower	10.8		
	Bladder 2	Quench Tower	10.8		
11-Jul-25	Bladder 2	Quench Tower	10.9		
	Bladder 2	Quench Tower	11.1		
12-Jul-25	Bladder 2	Quench Tower	11.1		
	Bladder 2	Quench Tower	11.3		
13-Jul-25	Bladder 2	Quench Tower	11.4		
14-Jul-25	Bladder 2	Quench Tower	11.4		
	Bladder 2	Quench Tower	11.6		
15-Jul-25	Bladder 2	Quench Tower	11.6		
	Bladder 2	Quench Tower	16.9		
	Bladder 2	Quench Tower	0.5		
	Bladder 2	Quench Tower	9.2		
19-Jul-25	Bladder 2	Quench Tower	7.6		
20-Jul-25	Bladder 2	Quench Tower	4.6		
21-Jul-25	Bladder 2	Quench Tower	5.6		
23-Jul-25	Bladder 2	Quench Tower	6.8		
24-Jul-25	Bladder 2	Quench Tower	15.5		
25-Jul-25	Bladder 2	Quench Tower	8.4		
26-Jul-25	Bladder 2	Quench Tower	12.0		
27-Jul-25	Bladder 2	Quench Tower	5.6		
	Bladder 2	Quench Tower	4.9		
28-Jul-25	Bladder 2	Quench Tower	10.3		
29-Jul-25	Bladder 2	Quench Tower	9.8		
30-Jul-25	Bladder 2	Quench Tower	6.8		
31-Jul-25	Bladder 2	Quench Tower	0.0		
01-Aug-25	Bladder 2	Quench Tower	0.0	45.5	
02-Aug-25	Bladder 2	Quench Tower	20.1		
03-Aug-25	Bladder 2	Quench Tower	5.9		
04-Aug-25	Bladder 2	Quench Tower	0.2		
05-Aug-25	Bladder 2	Quench Tower	0.0		
06-Aug-25	Bladder 2	Quench Tower	0.0		
07-Aug-25	Bladder 2	Quench Tower	10.7		
08-Aug-25	Bladder 2	Quench Tower	0.0		
09-Aug-25	Bladder 2	Quench Tower	0.0		
10-Aug-25	Bladder 2	Quench Tower	6.9		
23-Aug-25	Bladder 2	Quench Tower	1.7		

Notes:
m^3 - cubic metres

Table D7
Freshwater Withdrawn from West Channel SNP Station 1846-1
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Withdrawal for Site Activities			Withdrawal for Barge Toilets		
	Daily Withdrawn (m^3)	Monthly Withdrawn (m^3)	Annual Withdrawn (m^3)	Daily Withdrawn (m^3)	Monthly Withdrawn (m^3)	Annual Withdrawn (m^3)
01-Jan-25	0	0	881	0.4	148	531
02-Jan-25	0			0.0		
03-Jan-25	0			0.0		
04-Jan-25	0			0.0		
05-Jan-25	0			4.1		
06-Jan-25	0			0.0		
07-Jan-25	0			0.0		
08-Jan-25	0			0.8		
09-Jan-25	0			4.0		
10-Jan-25	0			30.5		
11-Jan-25	0			32.3		
12-Jan-25	0			26.5		
13-Jan-25	0			27.3		
14-Jan-25	0			0.0		
15-Jan-25	0			3.5		
16-Jan-25	0			2.3		
17-Jan-25	0			0.0		
18-Jan-25	0			1.1		
19-Jan-25	0			0.0		
20-Jan-25	0			0.0		
21-Jan-25	0			5.1		
22-Jan-25	0			0.0		
23-Jan-25	0			0.0		
24-Jan-25	0			0.0		
25-Jan-25	0			0.0		
26-Jan-25	0			3.5		
27-Jan-25	0			2.3		
28-Jan-25	0			1.3		
29-Jan-25	0			1.3		
30-Jan-25	0			1.0		
31-Jan-25	0			0.9		

Table D7
Freshwater Withdrawn from West Channel SNP Station 1846-1
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Withdrawal for Site Activities			Withdrawal for Barge Toilets		
	Daily Withdrawn (m^3)	Monthly Withdrawn (m^3)	Annual Withdrawn (m^3)	Daily Withdrawn (m^3)	Monthly Withdrawn (m^3)	Annual Withdrawn (m^3)
01-Feb-25	0	0	881	0.0	116	531
02-Feb-25	0			0.3		
03-Feb-25	0			1.0		
04-Feb-25	0			0.0		
05-Feb-25	0			1.0		
06-Feb-25	0			1.2		
07-Feb-25	0			0.6		
08-Feb-25	0			0.9		
09-Feb-25	0			1.5		
10-Feb-25	0			0.7		
11-Feb-25	0			0.0		
12-Feb-25	0			16.0		
13-Feb-25	0			35.2		
14-Feb-25	0			0.0		
15-Feb-25	0			0.9		
16-Feb-25	0			1.0		
17-Feb-25	0			0.0		
18-Feb-25	0			3.3		
19-Feb-25	0			3.7		
20-Feb-25	0			34.5		
21-Feb-25	0			2.5		
22-Feb-25	0			0.0		
23-Feb-25	0			1.7		
24-Feb-25	0			0.0		
25-Feb-25	0			0.0		
26-Feb-25	0			9.0		
27-Feb-25	0			1.2		
28-Feb-25	0			0.0		

Table D7
Freshwater Withdrawn from West Channel SNP Station 1846-1
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Withdrawal for Site Activities			Withdrawal for Barge Toilets		
	Daily Withdrawn (m^3)	Monthly Withdrawn (m^3)	Annual Withdrawn (m^3)	Daily Withdrawn (m^3)	Monthly Withdrawn (m^3)	Annual Withdrawn (m^3)
01-Mar-25	0	0	881	0.0	160	531
02-Mar-25	0			3.7		
03-Mar-25	0			0.0		
04-Mar-25	0			3.0		
05-Mar-25	0			0.8		
06-Mar-25	0			0.9		
07-Mar-25	0			2.2		
08-Mar-25	0			1.3		
09-Mar-25	0			1.9		
10-Mar-25	0			2.6		
11-Mar-25	0			1.2		
12-Mar-25	0			2.4		
13-Mar-25	0			31.3		
14-Mar-25	0			37.2		
15-Mar-25	0			2.7		
16-Mar-25	0			38.2		
17-Mar-25	0			1.5		
18-Mar-25	0			0.0		
19-Mar-25	0			2.2		
20-Mar-25	0			0.0		
21-Mar-25	0			0.6		
22-Mar-25	0			0.0		
23-Mar-25	0			12.4		
24-Mar-25	0			0.4		
25-Mar-25	0			0.0		
26-Mar-25	0			0.0		
27-Mar-25	0			6.0		
28-Mar-25	0			1.2		
29-Mar-25	0			1.2		
30-Mar-25	0			1.6		
31-Mar-25	0			3.8		

Table D7
Freshwater Withdrawn from West Channel SNP Station 1846-1
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Withdrawal for Site Activities			Withdrawal for Barge Toilets		
	Daily Withdrawn (m^3)	Monthly Withdrawn (m^3)	Annual Withdrawn (m^3)	Daily Withdrawn (m^3)	Monthly Withdrawn (m^3)	Annual Withdrawn (m^3)
01-Apr-25	0	3	881	30.2	101	531
02-Apr-25	0			32.9		
03-Apr-25	0			3.0		
04-Apr-25	0			2.6		
05-Apr-25	0			0.0		
06-Apr-25	0			0.0		
07-Apr-25	0			1.3		
08-Apr-25	0			1.2		
09-Apr-25	0			1.6		
10-Apr-25	2			1.0		
11-Apr-25	0			1.3		
12-Apr-25	1			6.8		
13-Apr-25	1			14.0		
14-Apr-25	0			2.5		
15-Apr-25	0			0.0		
16-Apr-25	0			0.6		
17-Apr-25	0			2.0		
18-Apr-25	0			0.0		
19-Apr-25	0			0.0		
20-Apr-25	0			0.0		
21-Apr-25	0			0.0		
22-Apr-25	0			0.0		
23-Apr-25	0			0.0		
24-Apr-25	0			0.0		
25-Apr-25	0			0.0		
26-Apr-25	0			0.0		
27-Apr-25	0			0.0		
28-Apr-25	0			0.0		
29-Apr-25	0			0.0		
30-Apr-25	0			0.0		

Table D7
Freshwater Withdrawn from West Channel SNP Station 1846-1
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Withdrawal for Site Activities			Withdrawal for Barge Toilets		
	Daily Withdrawn (m^3)	Monthly Withdrawn (m^3)	Annual Withdrawn (m^3)	Daily Withdrawn (m^3)	Monthly Withdrawn (m^3)	Annual Withdrawn (m^3)
01-May-25	0	0	881	0.0	0	531
02-May-25	0			0.0		
03-May-25	0			0.0		
04-May-25	0			0.0		
05-May-25	0			0.0		
06-May-25	0			0.0		
07-May-25	0			0.0		
08-May-25	0			0.0		
09-May-25	0			0.0		
10-May-25	0			0.0		
11-May-25	0			0.0		
12-May-25	0			0.0		
13-May-25	0			0.0		
14-May-25	0			0.0		
15-May-25	0			0.0		
16-May-25	0			0.0		
17-May-25	0			0.0		
18-May-25	0			0.0		
19-May-25	0			0.0		
20-May-25	0			0.0		
21-May-25	0			0.0		
22-May-25	0			0.0		
23-May-25	0			0.0		
24-May-25	0			0.0		
25-May-25	0			0.0		
26-May-25	0			0.0		
27-May-25	0			0.0		
28-May-25	0			0.0		
29-May-25	0			0.0		
30-May-25	0			0.0		
31-May-25	0			0.0		

Table D7
Freshwater Withdrawn from West Channel SNP Station 1846-1
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Withdrawal for Site Activities			Withdrawal for Barge Toilets		
	Daily Withdrawn (m^3)	Monthly Withdrawn (m^3)	Annual Withdrawn (m^3)	Daily Withdrawn (m^3)	Monthly Withdrawn (m^3)	Annual Withdrawn (m^3)
01-Jun-25	0	0	881	0.0	5	531
02-Jun-25	0			0.0		
03-Jun-25	0			0.0		
04-Jun-25	0			0.0		
05-Jun-25	0			0.0		
06-Jun-25	0			0.0		
07-Jun-25	0			0.0		
08-Jun-25	0			0.0		
09-Jun-25	0			0.0		
10-Jun-25	0			0.0		
11-Jun-25	0			0.0		
12-Jun-25	0			0.0		
13-Jun-25	0			0.0		
14-Jun-25	0			0.0		
15-Jun-25	0			0.0		
16-Jun-25	0			0.0		
17-Jun-25	0			0.0		
18-Jun-25	0			0.0		
19-Jun-25	0			0.0		
20-Jun-25	0			0.0		
21-Jun-25	0			0.0		
22-Jun-25	0			0.0		
23-Jun-25	0			0.0		
24-Jun-25	0			0.0		
25-Jun-25	0			0.0		
26-Jun-25	0			0.2		
27-Jun-25	0			2.8		
28-Jun-25	0			2.2		
29-Jun-25	0			0.0		
30-Jun-25	0			0.0		

Table D7
Freshwater Withdrawn from West Channel SNP Station 1846-1
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Withdrawal for Site Activities			Withdrawal for Barge Toilets		
	Daily Withdrawn (m^3)	Monthly Withdrawn (m^3)	Annual Withdrawn (m^3)	Daily Withdrawn (m^3)	Monthly Withdrawn (m^3)	Annual Withdrawn (m^3)
01-Jul-25	0	269	881	0.0	0	531
02-Jul-25	16			0.0		
03-Jul-25	9			0.0		
04-Jul-25	7			0.0		
05-Jul-25	10			0.0		
06-Jul-25	10			0.0		
07-Jul-25	24			0.0		
08-Jul-25	0			0.0		
09-Jul-25	0			0.0		
10-Jul-25	0			0.0		
11-Jul-25	0			0.0		
12-Jul-25	0			0.0		
13-Jul-25	0			0.0		
14-Jul-25	15			0.0		
15-Jul-25	14			0.0		
16-Jul-25	35			0.0		
17-Jul-25	20			0.0		
18-Jul-25	0			0.0		
19-Jul-25	27			0.0		
20-Jul-25	25			0.0		
21-Jul-25	27			0.0		
22-Jul-25	0			0.0		
23-Jul-25	0			0.0		
24-Jul-25	0			0.0		
25-Jul-25	0			0.0		
26-Jul-25	0			0.0		
27-Jul-25	10			0.0		
28-Jul-25	20			0.0		
29-Jul-25	0			0.0		
30-Jul-25	0			0.0		
31-Jul-25	0			0.0		

Table D7
Freshwater Withdrawn from West Channel SNP Station 1846-1
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Withdrawal for Site Activities			Withdrawal for Barge Toilets		
	Daily Withdrawn (m^3)	Monthly Withdrawn (m^3)	Annual Withdrawn (m^3)	Daily Withdrawn (m^3)	Monthly Withdrawn (m^3)	Annual Withdrawn (m^3)
01-Aug-25	30	444	881	0.0	0	531
02-Aug-25	20			0.0		
03-Aug-25	30			0.0		
04-Aug-25	20			0.0		
05-Aug-25	10			0.0		
06-Aug-25	10			0.0		
07-Aug-25	0			0.0		
08-Aug-25	10			0.0		
09-Aug-25	0			0.0		
10-Aug-25	10			0.0		
11-Aug-25	10			0.0		
12-Aug-25	40			0.0		
13-Aug-25	30			0.0		
14-Aug-25	30			0.0		
15-Aug-25	0			0.0		
16-Aug-25	0			0.0		
17-Aug-25	30			0.0		
18-Aug-25	30			0.0		
19-Aug-25	0			0.0		
20-Aug-25	0			0.0		
21-Aug-25	10			0.0		
22-Aug-25	20			0.0		
23-Aug-25	40			0.0		
24-Aug-25	0			0.0		
25-Aug-25	20			0.0		
26-Aug-25	0			0.0		
27-Aug-25	14			0.0		
28-Aug-25	0			0.0		
29-Aug-25	0			0.0		
30-Aug-25	0			0.0		
31-Aug-25	30			0.0		

Table D7
Freshwater Withdrawn from West Channel SNP Station 1846-1
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Withdrawal for Site Activities			Withdrawal for Barge Toilets		
	Daily Withdrawn (m^3)	Monthly Withdrawn (m^3)	Annual Withdrawn (m^3)	Daily Withdrawn (m^3)	Monthly Withdrawn (m^3)	Annual Withdrawn (m^3)
01-Sep-25	30	165	881	0.0	0	531
02-Sep-25	0			0.0		
03-Sep-25	0			0.0		
04-Sep-25	30			0.0		
05-Sep-25	20			0.0		
06-Sep-25	0			0.0		
07-Sep-25	0			0.0		
08-Sep-25	0			0.0		
09-Sep-25	0			0.0		
10-Sep-25	20			0.0		
11-Sep-25	0			0.0		
12-Sep-25	15			0.0		
13-Sep-25	10			0.0		
14-Sep-25	0			0.0		
15-Sep-25	0			0.0		
16-Sep-25	10			0.0		
17-Sep-25	0			0.0		
18-Sep-25	0			0.0		
19-Sep-25	0			0.0		
20-Sep-25	30			0.0		
21-Sep-25	0			0.0		
22-Sep-25	0			0.0		
23-Sep-25	0			0.0		
24-Sep-25	0			0.0		
25-Sep-25	0			0.0		
26-Sep-25	0			0.0		
27-Sep-25	0			0.0		
28-Sep-25	0			0.0		
29-Sep-25	0			0.0		
30-Sep-25	0			0.0		
01-Oct-25	0	0		0.0	0	
02-Oct-25	0			0.0		
03-Oct-25	0			0.0		
04-Oct-25	0			0.0		
05-Oct-25	0			0.0		
06-Oct-25	0			0.0		
07-Oct-25	0			0.0		
08-Oct-25	0			0.0		
09-Oct-25	0			0.0		
10-Oct-25	0			0.0		

Table D7
Freshwater Withdrawn from West Channel SNP Station 1846-1
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Withdrawal for Site Activities			Withdrawal for Barge Toilets		
	Daily Withdrawn (m^3)	Monthly Withdrawn (m^3)	Annual Withdrawn (m^3)	Daily Withdrawn (m^3)	Monthly Withdrawn (m^3)	Annual Withdrawn (m^3)
11-Oct-25	0	0	881	0.0	0	531
12-Oct-25	0			0.0		
13-Oct-25	0			0.0		
14-Oct-25	0			0.0		
15-Oct-25	0			0.0		
16-Oct-25	0			0.0		
17-Oct-25	0			0.0		
18-Oct-25	0			0.0		
19-Oct-25	0			0.0		
20-Oct-25	0			0.0		
21-Oct-25	0			0.0		
22-Oct-25	0			0.0		
23-Oct-25	0			0.0		
24-Oct-25	0			0.0		
25-Oct-25	0			0.0		
26-Oct-25	0			0.0		
27-Oct-25	0			0.0		
28-Oct-25	0			0.0		
29-Oct-25	0			0.0		
30-Oct-25	0			0.0		
31-Oct-25	0			0.0		

Table D7
Freshwater Withdrawn from West Channel SNP Station 1846-1
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Withdrawal for Site Activities			Withdrawal for Barge Toilets		
	Daily Withdrawn (m^3)	Monthly Withdrawn (m^3)	Annual Withdrawn (m^3)	Daily Withdrawn (m^3)	Monthly Withdrawn (m^3)	Annual Withdrawn (m^3)
01-Nov-25	0	0	881	0.0	0	531
02-Nov-25	0			0.0		
03-Nov-25	0			0.0		
04-Nov-25	0			0.0		
05-Nov-25	0			0.0		
06-Nov-25	0			0.0		
07-Nov-25	0			0.0		
08-Nov-25	0			0.0		
09-Nov-25	0			0.0		
10-Nov-25	0			0.0		
11-Nov-25	0			0.0		
12-Nov-25	0			0.0		
13-Nov-25	0			0.0		
14-Nov-25	0			0.0		
15-Nov-25	0			0.0		
16-Nov-25	0			0.0		
17-Nov-25	0			0.0		
18-Nov-25	0			0.0		
19-Nov-25	0			0.0		
20-Nov-25	0			0.0		
21-Nov-25	0			0.0		
22-Nov-25	0			0.0		
23-Nov-25	0			0.0		
24-Nov-25	0			0.0		
25-Nov-25	0			0.0		
26-Nov-25	0			0.0		
27-Nov-25	0			0.0		
28-Nov-25	0			0.0		
29-Nov-25	0			0.0		
30-Nov-25	0			0.0		
01-Dec-25	0	0		0.0	0	
02-Dec-25	0			0.0		
03-Dec-25	0			0.0		
04-Dec-25	0			0.0		
05-Dec-25	0			0.0		
06-Dec-25	0			0.0		
07-Dec-25	0			0.0		
08-Dec-25	0			0.0		
09-Dec-25	0			0.0		
10-Dec-25	0			0.0		
11-Dec-25	0			0.0		
12-Dec-25	0			0.0		
13-Dec-25	0			0.0		
14-Dec-25	0			0.0		

Table D7
Freshwater Withdrawn from West Channel SNP Station 1846-1
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Withdrawal for Site Activities			Withdrawal for Barge Toilets		
	Daily Withdrawn (m^3)	Monthly Withdrawn (m^3)	Annual Withdrawn (m^3)	Daily Withdrawn (m^3)	Monthly Withdrawn (m^3)	Annual Withdrawn (m^3)
15-Dec-25	0	0	881	0.0	0	531
16-Dec-25	0			0.0		
17-Dec-25	0			0.0		
18-Dec-25	0			0.0		
19-Dec-25	0			0.0		
20-Dec-25	0			0.0		
21-Dec-25	0			0.0		
22-Dec-25	0			0.0		
23-Dec-25	0			0.0		
24-Dec-25	0			0.0		
25-Dec-25	0			0.0		
26-Dec-25	0			0.0		
27-Dec-25	0			0.0		
28-Dec-25	0			0.0		
29-Dec-25	0			0.0		
30-Dec-25	0			0.0		
31-Dec-25	0			0.0		

Note:
m^3 - cubic metres

Table D8
Sewage Generated and Disposed of Off Site
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Barge Camp Sewage for Off-Site Disposal				
	Daily Amount Generated (m^3)	Monthly Amount Generated (m^3)	Daily Off-Site Disposal (m^3)	Monthly Off-Site Disposal (m^3)	Annual Generated and Disposed of Off Site (m^3)
01-Jan-25	1.2	107	0.0	121	951
02-Jan-25	0.0		0.0		
03-Jan-25	0.7		0.0		
04-Jan-25	1.7		0.0		
05-Jan-25	6.7		0.0		
06-Jan-25	0.2		0.0		
07-Jan-25	4.1		0.0		
08-Jan-25	3.6		0.0		
09-Jan-25	4.0		0.0		
10-Jan-25	3.3		0.0		
11-Jan-25	4.0		0.0		
12-Jan-25	2.7		0.0		
13-Jan-25	3.1		0.0		
14-Jan-25	3.7		0.0		
15-Jan-25	5.4		5.0		
16-Jan-25	5.3		5.0		
17-Jan-25	2.7		8.8		
18-Jan-25	3.1		8.5		
19-Jan-25	3.3		9.3		
20-Jan-25	0.4		9.0		
21-Jan-25	8.4		10.4		
22-Jan-25	5.8		9.5		
23-Jan-25	0.0		9.5		
24-Jan-25	1.7		4.4		
25-Jan-25	2.7		4.9		
26-Jan-25	7.3		5.3		
27-Jan-25	5.2		0.0		
28-Jan-25	4.9		9.4		
29-Jan-25	4.4		9.5		
30-Jan-25	4.0		8.3		
31-Jan-25	3.9		4.0		
01-Feb-25	3.4	141	3.2	142	
02-Feb-25	4.7		9.4		
03-Feb-25	4.3		10.0		
04-Feb-25	0.4		10.0		
05-Feb-25	18.1		10.0		
06-Feb-25	3.8		10.0		
07-Feb-25	4.6		0.0		
08-Feb-25	4.2		0.0		
09-Feb-25	5.1		0.0		
10-Feb-25	4.5		0.0		
11-Feb-25	5.0		0.0		
12-Feb-25	10.9		0.0		
13-Feb-25	5.3		0.0		
14-Feb-25	0.0		9.3		
15-Feb-25	3.9		9.4		
16-Feb-25	4.1		11.7		
17-Feb-25	4.3		11.0		
18-Feb-25	7.1		10.9		
19-Feb-25	4.3		10.9		
20-Feb-25	6.2		8.0		
21-Feb-25	5.7		9.7		
22-Feb-25	4.2		0.0		
23-Feb-25	5.3		0.0		
24-Feb-25	0.0		0.0		
25-Feb-25	0.0		0.0		
26-Feb-25	13.6		0.0		
27-Feb-25	3.8		8.6		
28-Feb-25	3.6		0.0		

Table D8
Sewage Generated and Disposed of Off Site
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Barge Camp Sewage for Off-Site Disposal				
	Daily Amount Generated (m^3)	Monthly Amount Generated (m^3)	Daily Off-Site Disposal (m^3)	Monthly Off-Site Disposal (m^3)	Annual Generated and Disposed of Off Site (m^3)
01-Mar-25	5.0	175	12.3	215	951
02-Mar-25	7.5		10.0		
03-Mar-25	2.8		7.7		
04-Mar-25	6.3		9.7		
05-Mar-25	4.3		12.1		
06-Mar-25	9.7		10.1		
07-Mar-25	7.4		10.2		
08-Mar-25	4.1		0.0		
09-Mar-25	8.4		10.0		
10-Mar-25	5.3		0.0		
11-Mar-25	12.1		8.3		
12-Mar-25	5.1		0.0		
13-Mar-25	6.3		9.2		
14-Mar-25	6.1		9.3		
15-Mar-25	5.2		10.0		
16-Mar-25	4.4		9.2		
17-Mar-25	5.3		0.0		
18-Mar-25	3.6		9.1		
19-Mar-25	5.6		0.0		
20-Mar-25	5.8		10.0		
21-Mar-25	3.9		0.0		
22-Mar-25	4.0		21.6		
23-Mar-25	5.0		9.4		
24-Mar-25	3.9		10.0		
25-Mar-25	2.8		0.0		
26-Mar-25	3.7		0.0		
27-Mar-25	10.6		9.6		
28-Mar-25	4.1		0.0		
29-Mar-25	5.8		9.6		
30-Mar-25	4.7		0.0		
31-Mar-25	6.6		7.4		
01-Apr-25	6.3	88	0.0	96	
02-Apr-25	9.6		9.9		
03-Apr-25	5.0		0.0		
04-Apr-25	10.7		7.3		
05-Apr-25	0.0		0.0		
06-Apr-25	0.0		0.0		
07-Apr-25	4.9		0.0		
08-Apr-25	7.4		9.0		
09-Apr-25	4.9		0.0		
10-Apr-25	5.3		6.8		
11-Apr-25	4.4		13.6		
12-Apr-25	4.3		13.5		
13-Apr-25	4.6		15.9		
14-Apr-25	5.7		6.9		
15-Apr-25	0.0		0.0		
16-Apr-25	4.4		4.2		
17-Apr-25	5.4		5.6		
18-Apr-25	3.0		3.5		
19-Apr-25	2.0		0.0		
20-Apr-25	0.0		0.0		
21-Apr-25	0.0		0.0		
22-Apr-25	0.0		0.0		
23-Apr-25	0.0		0.0		
24-Apr-25	0.0		0.0		
25-Apr-25	0.0		0.0		
26-Apr-25	0.0		0.0		
27-Apr-25	0.0		0.0		
28-Apr-25	0.0		0.0		
29-Apr-25	0.0		0.0		
30-Apr-25	0.0		0.0		

Table D8
Sewage Generated and Disposed of Off Site
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Barge Camp Sewage for Off-Site Disposal				
	Daily Amount Generated (m^3)	Monthly Amount Generated (m^3)	Daily Off-Site Disposal (m^3)	Monthly Off-Site Disposal (m^3)	Annual Generated and Disposed of Off Site (m^3)
01-May-25	0.0	0	0.0	0	951
02-May-25	0.0		0.0		
03-May-25	0.0		0.0		
04-May-25	0.0		0.0		
05-May-25	0.0		0.0		
06-May-25	0.0		0.0		
07-May-25	0.0		0.0		
08-May-25	0.0		0.0		
09-May-25	0.0		0.0		
10-May-25	0.0		0.0		
11-May-25	0.0		0.0		
12-May-25	0.0		0.0		
13-May-25	0.0		0.0		
14-May-25	0.0		0.0		
15-May-25	0.0		0.0		
16-May-25	0.0		0.0		
17-May-25	0.0		0.0		
18-May-25	0.0		0.0		
19-May-25	0.0		0.0		
20-May-25	0.0		0.0		
21-May-25	0.0		0.0		
22-May-25	0.0		0.0		
23-May-25	0.0		0.0		
24-May-25	0.0		0.0		
25-May-25	0.0		0.0		
26-May-25	0.0		0.0		
27-May-25	0.0		0.0		
28-May-25	0.0		0.0		
29-May-25	0.0		0.0		
30-May-25	0.0		0.0		
31-May-25	0.0		0.0		
01-Jun-25	0.0	13.5	0.0	0	
02-Jun-25	0.0		0.0		
03-Jun-25	0.0		0.0		
04-Jun-25	0.0		0.0		
05-Jun-25	0.0		0.0		
06-Jun-25	0.0		0.0		
07-Jun-25	0.0		0.0		
08-Jun-25	0.0		0.0		
09-Jun-25	0.0		0.0		
10-Jun-25	0.0		0.0		
11-Jun-25	0.0		0.0		
12-Jun-25	0.0		0.0		
13-Jun-25	0.0		0.0		
14-Jun-25	0.0		0.0		
15-Jun-25	0.0		0.0		
16-Jun-25	0.0		0.0		
17-Jun-25	0.0		0.0		
18-Jun-25	0.0		0.0		
19-Jun-25	0.0		0.0		
20-Jun-25	0.0		0.0		
21-Jun-25	0.0		0.0		
22-Jun-25	0.0		0.0		
23-Jun-25	0.0		0.0		
24-Jun-25	0.0		0.0		
25-Jun-25	0.0		0.0		
26-Jun-25	0.2		0.0		
27-Jun-25	3.1		0.0		
28-Jun-25	2.9		0.0		
29-Jun-25	3.4		0.0		
30-Jun-25	3.9		0.0		

Table D8
Sewage Generated and Disposed of Off Site
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Barge Camp Sewage for Off-Site Disposal				
	Daily Amount Generated (m^3)	Monthly Amount Generated (m^3)	Daily Off-Site Disposal (m^3)	Monthly Off-Site Disposal (m^3)	Annual Generated and Disposed of Off Site (m^3)
01-Jul-25	4.3	114	0.0	111	951
02-Jul-25	2.6		0.0		
03-Jul-25	4.8		0.0		
04-Jul-25	3.6		0.0		
05-Jul-25	4.0		0.0		
06-Jul-25	3.7		0.0		
07-Jul-25	5.2		0.0		
08-Jul-25	6.0		0.0		
09-Jul-25	3.6		0.0		
10-Jul-25	3.3		0.0		
11-Jul-25	3.5		0.0		
12-Jul-25	3.7		0.0		
13-Jul-25	4.5		66.4		
14-Jul-25	3.5		0.0		
15-Jul-25	2.3		0.0		
16-Jul-25	1.7		0.0		
17-Jul-25	3.4		0.0		
18-Jul-25	5.0		0.0		
19-Jul-25	5.0		0.0		
20-Jul-25	3.3		0.0		
21-Jul-25	3.2		0.0		
22-Jul-25	0.0		0.0		
23-Jul-25	3.6		0.0		
24-Jul-25	3.8		0.0		
25-Jul-25	4.0		0.0		
26-Jul-25	2.7		45.0		
27-Jul-25	1.8		0.0		
28-Jul-25	6.9		0.0		
29-Jul-25	2.2		0.0		
30-Jul-25	4.8		0.0		
31-Jul-25	3.9		0.0		
01-Aug-25	3.5	126	0.0	119	
02-Aug-25	4.2		0.0		
03-Aug-25	3.6		0.0		
04-Aug-25	3.3		0.0		
05-Aug-25	3.8		0.0		
06-Aug-25	4.2		0.0		
07-Aug-25	13.1		0.0		
08-Aug-25	0.0		0.0		
09-Aug-25	0.0		0.0		
10-Aug-25	0.0		55.2		
11-Aug-25	8.6		0.0		
12-Aug-25	4.3		0.0		
13-Aug-25	4.3		0.0		
14-Aug-25	4.3		0.0		
15-Aug-25	4.4		0.0		
16-Aug-25	6.4		0.0		
17-Aug-25	-2.0		0.0		
18-Aug-25	4.5		0.0		
19-Aug-25	4.4		0.0		
20-Aug-25	6.7		0.0		
21-Aug-25	8.6		0.0		
22-Aug-25	4.3		0.0		
23-Aug-25	4.3		0.0		
24-Aug-25	0.7		64.0		
25-Aug-25	5.3		0.0		
26-Aug-25	4.5		0.0		
27-Aug-25	1.3		0.0		
28-Aug-25	7.0		0.0		
29-Aug-25	4.1		0.0		
30-Aug-25	4.0		0.0		
31-Aug-25	0.0		0.0		

Table D8
Sewage Generated and Disposed of Off Site
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Barge Camp Sewage for Off-Site Disposal				
	Daily Amount Generated (m^3)	Monthly Amount Generated (m^3)	Daily Off-Site Disposal (m^3)	Monthly Off-Site Disposal (m^3)	Annual Generated and Disposed of Off Site (m^3)
01-Sep-25	3.9	104.7	0.0	110	951
02-Sep-25	3.5		0.0		
03-Sep-25	4.0		0.0		
04-Sep-25	4.1		0.0		
05-Sep-25	4.0		0.0		
06-Sep-25	3.6		0.0		
07-Sep-25	4.6		57.2		
08-Sep-25	5.7		0.0		
09-Sep-25	3.9		0.0		
10-Sep-25	3.3		0.0		
11-Sep-25	4.1		0.0		
12-Sep-25	2.4		0.0		
13-Sep-25	2.5		0.0		
14-Sep-25	2.2		0.0		
15-Sep-25	3.4		0.0		
16-Sep-25	3.1		0.0		
17-Sep-25	2.8		0.0		
18-Sep-25	2.1		0.0		
19-Sep-25	2.6		0.0		
20-Sep-25	3.4		0.0		
21-Sep-25	2.8		0.0		
22-Sep-25	2.7		0.0		
23-Sep-25	6.0		53.0		
24-Sep-25	4.5		0.0		
25-Sep-25	3.0		0.0		
26-Sep-25	4.0		0.0		
27-Sep-25	3.2		0.0		
28-Sep-25	3.7		0.0		
29-Sep-25	3.0		0.0		
30-Sep-25	2.7		0.0		
01-Oct-25	2.0	11.5	0.0	36	
02-Oct-25	2.0		0.0		
03-Oct-25	1.8		0.0		
04-Oct-25	2.0		0.0		
05-Oct-25	2.4		0.0		
06-Oct-25	1.4		0.0		
07-Oct-25	0.0		35.5		
08-Oct-25	0.0		0.0		
09-Oct-25	0.0		0.0		
10-Oct-25	0.0		0.0		
11-Oct-25	0.0		0.0		
12-Oct-25	0.0		0.0		
13-Oct-25	0.0		0.0		
14-Oct-25	0.0		0.0		
15-Oct-25	0.0		0.0		
16-Oct-25	0.0		0.0		
17-Oct-25	0.0		0.0		
18-Oct-25	0.0		0.0		
19-Oct-25	0.0		0.0		
20-Oct-25	0.0		0.0		
21-Oct-25	0.0		0.0		
22-Oct-25	0.0		0.0		
23-Oct-25	0.0		0.0		
24-Oct-25	0.0		0.0		
25-Oct-25	0.0		0.0		
26-Oct-25	0.0		0.0		
27-Oct-25	0.0		0.0		
28-Oct-25	0.0		0.0		
29-Oct-25	0.0		0.0		
30-Oct-25	0.0		0.0		
31-Oct-25	0.0		0.0		

Table D8
Sewage Generated and Disposed of Off Site
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Barge Camp Sewage for Off-Site Disposal				
	Daily Amount Generated (m^3)	Monthly Amount Generated (m^3)	Daily Off-Site Disposal (m^3)	Monthly Off-Site Disposal (m^3)	Annual Generated and Disposed of Off Site (m^3)
01-Nov-25	0.0	0	0.0	0.0	951
02-Nov-25	0.0		0.0		
03-Nov-25	0.0		0.0		
04-Nov-25	0.0		0.0		
05-Nov-25	0.0		0.0		
06-Nov-25	0.0		0.0		
07-Nov-25	0.0		0.0		
08-Nov-25	0.0		0.0		
09-Nov-25	0.0		0.0		
10-Nov-25	0.0		0.0		
11-Nov-25	0.0		0.0		
12-Nov-25	0.0		0.0		
13-Nov-25	0.0		0.0		
14-Nov-25	0.0		0.0		
15-Nov-25	0.0		0.0		
16-Nov-25	0.0		0.0		
17-Nov-25	0.0		0.0		
18-Nov-25	0.0		0.0		
19-Nov-25	0.0		0.0		
20-Nov-25	0.0		0.0		
21-Nov-25	0.0		0.0		
22-Nov-25	0.0		0.0		
23-Nov-25	0.0		0.0		
24-Nov-25	0.0		0.0		
25-Nov-25	0.0		0.0		
26-Nov-25	0.0		0.0		
27-Nov-25	0.0		0.0		
28-Nov-25	0.0		0.0		
29-Nov-25	0.0		0.0		
30-Nov-25	0.0		0.0		
01-Dec-25	0.0	0	0.0	0	
02-Dec-25	0.0		0.0		
03-Dec-25	0.0		0.0		
04-Dec-25	0.0		0.0		
05-Dec-25	0.0		0.0		
06-Dec-25	0.0		0.0		
07-Dec-25	0.0		0.0		
08-Dec-25	0.0		0.0		
09-Dec-25	0.0		0.0		
10-Dec-25	0.0		0.0		
11-Dec-25	0.0		0.0		
12-Dec-25	0.0		0.0		
13-Dec-25	0.0		0.0		
14-Dec-25	0.0		0.0		
15-Dec-25	0.0		0.0		
16-Dec-25	0.0		0.0		
17-Dec-25	0.0		0.0		
18-Dec-25	0.0		0.0		
19-Dec-25	0.0		0.0		
20-Dec-25	0.0		0.0		
21-Dec-25	0.0		0.0		
22-Dec-25	0.0		0.0		
23-Dec-25	0.0		0.0		
24-Dec-25	0.0		0.0		
25-Dec-25	0.0		0.0		
26-Dec-25	0.0		0.0		
27-Dec-25	0.0		0.0		
28-Dec-25	0.0		0.0		
29-Dec-25	0.0		0.0		
30-Dec-25	0.0		0.0		
31-Dec-25	0.0		0.0		

Note:
m^3 - cubic metres

Table D9
Non-Hazardous Waste Generated and Disposed of Off Site or Incinerated
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Non-Hazardous Waste for Off-Site Disposal					Non-Hazardous Waste Incinerated On Board		
	Daily Amount Generated (kg)	Monthly Amount Generated (kg)	Daily Disposed of Off Site (kg)	Monthly Disposed of Off Site (kg)	Annual Generated and Disposed of Off Site (kg)	Daily Amount Incinerated (kg)	Monthly Amount Incinerated (kg)	Annual Amount Incinerated (kg)
01-Jan-25	0	0	0	0	16,410	15	510	2,049
02-Jan-25	0		0			0		
03-Jan-25	0		0			0		
04-Jan-25	0		0			10		
05-Jan-25	0		0			15		
06-Jan-25	0		0			15		
07-Jan-25	0		0			15		
08-Jan-25	0		0			10		
09-Jan-25	0		0			10		
10-Jan-25	0		0			10		
11-Jan-25	0		0			0		
12-Jan-25	0		0			0		
13-Jan-25	0		0			20		
14-Jan-25	0		0			30		
15-Jan-25	0		0			30		
16-Jan-25	0		0			20		
17-Jan-25	0		0			20		
18-Jan-25	0		0			20		
19-Jan-25	0		0			20		
20-Jan-25	0		0			20		
21-Jan-25	0		0			20		
22-Jan-25	0		0			20		
23-Jan-25	0		0			25		
24-Jan-25	0		0			20		
25-Jan-25	0		0			20		
26-Jan-25	0		0			20		
27-Jan-25	0		0			20		
28-Jan-25	0		0			20		
29-Jan-25	0		0			20		
30-Jan-25	0		0			20		
31-Jan-25	0		0			25		
01-Feb-25	0	0	0	0		20	604	
02-Feb-25	0		0			20		
03-Feb-25	0		0			20		
04-Feb-25	0		0			20		
05-Feb-25	0		0			20		
06-Feb-25	0		0			20		
07-Feb-25	0		0			20		
08-Feb-25	0		0			29		
09-Feb-25	0		0			25		
10-Feb-25	0		0			25		
11-Feb-25	0		0			25		
12-Feb-25	0		0			20		
13-Feb-25	0		0			25		
14-Feb-25	0		0			25		
15-Feb-25	0		0			20		
16-Feb-25	0		0			20		
17-Feb-25	0		0			20		
18-Feb-25	0		0			20		
19-Feb-25	0		0			25		
20-Feb-25	0		0			20		
21-Feb-25	0		0			20		
22-Feb-25	0		0			20		
23-Feb-25	0		0			20		
24-Feb-25	0		0			20		
25-Feb-25	0		0			20		
26-Feb-25	0		0			25		
27-Feb-25	0		0			20		
28-Feb-25	0		0			20		

Table D9
Non-Hazardous Waste Generated and Disposed of Off Site or Incinerated
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Non-Hazardous Waste for Off-Site Disposal					Non-Hazardous Waste Incinerated On Board		
	Daily Amount Generated (kg)	Monthly Amount Generated (kg)	Daily Disposed of Off Site (kg)	Monthly Disposed of Off Site (kg)	Annual Generated and Disposed of Off Site (kg)	Daily Amount Incinerated (kg)	Monthly Amount Incinerated (kg)	Annual Amount Incinerated (kg)
01-Mar-25	0	0	0	0	16,410	20	580	2,049
02-Mar-25	0		0			20		
03-Mar-25	0		0			20		
04-Mar-25	0		0			20		
05-Mar-25	0		0			15		
06-Mar-25	0		0			25		
07-Mar-25	0		0			20		
08-Mar-25	0		0			20		
09-Mar-25	0		0			0		
10-Mar-25	0		0			20		
11-Mar-25	0		0			20		
12-Mar-25	0		0			20		
13-Mar-25	0		0			20		
14-Mar-25	0		0			25		
15-Mar-25	0		0			20		
16-Mar-25	0		0			20		
17-Mar-25	0		0			20		
18-Mar-25	0		0			15		
19-Mar-25	0		0			20		
20-Mar-25	0		0			20		
21-Mar-25	0		0			15		
22-Mar-25	0		0			20		
23-Mar-25	0		0			20		
24-Mar-25	0		0			20		
25-Mar-25	0		0			20		
26-Mar-25	0		0			20		
27-Mar-25	0		0			20		
28-Mar-25	0		0			15		
29-Mar-25	0		0			20		
30-Mar-25	0		0			15		
31-Mar-25	0		0			15		
01-Apr-25	0	0	0	0		15	355	
02-Apr-25	0		0			20		
03-Apr-25	0		0			15		
04-Apr-25	0		0			15		
05-Apr-25	0		0			20		
06-Apr-25	0		0			20		
07-Apr-25	0		0			20		
08-Apr-25	0		0			20		
09-Apr-25	0		0			15		
10-Apr-25	0		0			20		
11-Apr-25	0		0			20		
12-Apr-25	0		0			15		
13-Apr-25	0		0			20		
14-Apr-25	0		0			20		
15-Apr-25	0		0			15		
16-Apr-25	0		0			15		
17-Apr-25	0		0			20		
18-Apr-25	0		0			15		
19-Apr-25	0		0			35		
20-Apr-25	0		0			0		
21-Apr-25	0		0			0		
22-Apr-25	0		0			0		
23-Apr-25	0		0			0		
24-Apr-25	0		0			0		
25-Apr-25	0		0			0		
26-Apr-25	0		0			0		
27-Apr-25	0		0			0		
28-Apr-25	0		0			0		
29-Apr-25	0		0			0		
30-Apr-25	0		0			0		

Table D9
Non-Hazardous Waste Generated and Disposed of Off Site or Incinerated
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Non-Hazardous Waste for Off-Site Disposal					Non-Hazardous Waste Incinerated On Board		
	Daily Amount Generated (kg)	Monthly Amount Generated (kg)	Daily Disposed of Off Site (kg)	Monthly Disposed of Off Site (kg)	Annual Generated and Disposed of Off Site (kg)	Daily Amount Incinerated (kg)	Monthly Amount Incinerated (kg)	Annual Amount Incinerated (kg)
01-May-25	0	0	0	0	16,410	0	0	2,049
02-May-25	0		0			0		
03-May-25	0		0			0		
04-May-25	0		0			0		
05-May-25	0		0			0		
06-May-25	0		0			0		
07-May-25	0		0			0		
08-May-25	0		0			0		
09-May-25	0		0			0		
10-May-25	0		0			0		
11-May-25	0		0			0		
12-May-25	0		0			0		
13-May-25	0		0			0		
14-May-25	0		0			0		
15-May-25	0		0			0		
16-May-25	0		0			0		
17-May-25	0		0			0		
18-May-25	0		0			0		
19-May-25	0		0			0		
20-May-25	0		0			0		
21-May-25	0		0			0		
22-May-25	0		0			0		
23-May-25	0		0			0		
24-May-25	0		0			0		
25-May-25	0		0			0		
26-May-25	0		0			0		
27-May-25	0		0			0		
28-May-25	0		0			0		
29-May-25	0		0			0		
30-May-25	0		0			0		
31-May-25	0		0			0		
01-Jun-25	0	84	0	0		0	0	
02-Jun-25	0		0			0		
03-Jun-25	0		0			0		
04-Jun-25	0		0			0		
05-Jun-25	0		0			0		
06-Jun-25	0		0			0		
07-Jun-25	0		0			0		
08-Jun-25	0		0			0		
09-Jun-25	0		0			0		
10-Jun-25	0		0			0		
11-Jun-25	0		0			0		
12-Jun-25	0		0			0		
13-Jun-25	0		0			0		
14-Jun-25	0		0			0		
15-Jun-25	0		0			0		
16-Jun-25	0		0			0		
17-Jun-25	0		0			0		
18-Jun-25	0		0			0		
19-Jun-25	0		0			0		
20-Jun-25	0		0			0		
21-Jun-25	0		0			0		
22-Jun-25	0		0			0		
23-Jun-25	0		0			0		
24-Jun-25	0		0			0		
25-Jun-25	0		0			0		
26-Jun-25	0		0			0		
27-Jun-25	21		0			0		
28-Jun-25	21		0			0		
29-Jun-25	21		0			0		
30-Jun-25	21		0			0		

Table D9
Non-Hazardous Waste Generated and Disposed of Off Site or Incinerated
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Non-Hazardous Waste for Off-Site Disposal					Non-Hazardous Waste Incinerated On Board		
	Daily Amount Generated (kg)	Monthly Amount Generated (kg)	Daily Disposed of Off Site (kg)	Monthly Disposed of Off Site (kg)	Annual Generated and Disposed of Off Site (kg)	Daily Amount Incinerated (kg)	Monthly Amount Incinerated (kg)	Annual Amount Incinerated (kg)
01-Jul-25	21	873	0	855	16,410	0	0	2,049
02-Jul-25	21		0			0		
03-Jul-25	21		0			0		
04-Jul-25	21		0			0		
05-Jul-25	21		0			0		
06-Jul-25	21		0			0		
07-Jul-25	21		0			0		
08-Jul-25	21		0			0		
09-Jul-25	21		0			0		
10-Jul-25	21		0			0		
11-Jul-25	21		0			0		
12-Jul-25	21		0			0		
13-Jul-25	37		335			0		
14-Jul-25	37		0			0		
15-Jul-25	37		0			0		
16-Jul-25	37		0			0		
17-Jul-25	37		0			0		
18-Jul-25	37		0			0		
19-Jul-25	37		0			0		
20-Jul-25	37		0			0		
21-Jul-25	37		0			0		
22-Jul-25	37		0			0		
23-Jul-25	37		0			0		
24-Jul-25	37		0			0		
25-Jul-25	37		0			0		
26-Jul-25	37		520			0		
27-Jul-25	20		0			0		
28-Jul-25	20		0			0		
29-Jul-25	20		0			0		
30-Jul-25	20		0			0		
31-Jul-25	20		0			0		
01-Aug-25	20	12,583	0	11,935		0	0	
02-Aug-25	20		0			0		
03-Aug-25	20		0			0		
04-Aug-25	20		0			0		
05-Aug-25	20		0			0		
06-Aug-25	20		0			0		
07-Aug-25	20		0			0		
08-Aug-25	20		0			0		
09-Aug-25	20		0			0		
10-Aug-25	777		285			0		
11-Aug-25	777		0			0		
12-Aug-25	777		0			0		
13-Aug-25	777		0			0		
14-Aug-25	777		0			0		
15-Aug-25	777		0			0		
16-Aug-25	777		0			0		
17-Aug-25	777		0			0		
18-Aug-25	777		0			0		
19-Aug-25	777		0			0		
20-Aug-25	777		0			0		
21-Aug-25	777		0			0		
22-Aug-25	777		0			0		
23-Aug-25	777		0			0		
24-Aug-25	777		11,650			0		
25-Aug-25	107		0			0		
26-Aug-25	107		0			0		
27-Aug-25	107		0			0		
28-Aug-25	107		0			0		
29-Aug-25	107		0			0		
30-Aug-25	107		0			0		
31-Aug-25	107		0			0		

Table D9
Non-Hazardous Waste Generated and Disposed of Off Site or Incinerated
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Non-Hazardous Waste for Off-Site Disposal					Non-Hazardous Waste Incinerated On Board		
	Daily Amount Generated (kg)	Monthly Amount Generated (kg)	Daily Disposed of Off Site (kg)	Monthly Disposed of Off Site (kg)	Annual Generated and Disposed of Off Site (kg)	Daily Amount Incinerated (kg)	Monthly Amount Incinerated (kg)	Annual Amount Incinerated (kg)
01-Sep-25	107	2,870	0	3,620	16,410	0	0	2,049
02-Sep-25	107		0			0		
03-Sep-25	107		0			0		
04-Sep-25	107		0			0		
05-Sep-25	107		0			0		
06-Sep-25	107		0			0		
07-Sep-25	107		1,500			0		
08-Sep-25	110		0			0		
09-Sep-25	110		0			0		
10-Sep-25	110		0			0		
11-Sep-25	110		0			0		
12-Sep-25	110		0			0		
13-Sep-25	110		0			0		
14-Sep-25	110		0			0		
15-Sep-25	110		0			0		
16-Sep-25	110		0			0		
17-Sep-25	110		0			0		
18-Sep-25	110		0			0		
19-Sep-25	110		1,320			0		
20-Sep-25	200		0			0		
21-Sep-25	200		0			0		
22-Sep-25	200		0			0		
23-Sep-25	200		800			0		
24-Sep-25	0		0			0		
25-Sep-25	0		0			0		
26-Sep-25	0		0			0		
27-Sep-25	0		0			0		
28-Sep-25	0		0			0		
29-Sep-25	0		0			0		
30-Sep-25	0		0			0		
01-Oct-25	0	0	0	0		0	0	
02-Oct-25	0		0			0		
03-Oct-25	0		0			0		
04-Oct-25	0		0			0		
05-Oct-25	0		0			0		
06-Oct-25	0		0			0		
07-Oct-25	0		0			0		
08-Oct-25	0		0			0		
09-Oct-25	0		0			0		
10-Oct-25	0		0			0		
11-Oct-25	0		0			0		
12-Oct-25	0		0			0		
13-Oct-25	0		0			0		
14-Oct-25	0		0			0		
15-Oct-25	0		0			0		
16-Oct-25	0		0			0		
17-Oct-25	0		0			0		
18-Oct-25	0		0			0		
19-Oct-25	0		0			0		
20-Oct-25	0		0			0		
21-Oct-25	0		0			0		
22-Oct-25	0		0			0		
23-Oct-25	0		0			0		
24-Oct-25	0		0			0		
25-Oct-25	0		0			0		
26-Oct-25	0		0			0		
27-Oct-25	0		0			0		
28-Oct-25	0		0			0		
29-Oct-25	0		0			0		
30-Oct-25	0		0			0		
31-Oct-25	0		0			0		

Table D9
Non-Hazardous Waste Generated and Disposed of Off Site or Incinerated
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Non-Hazardous Waste for Off-Site Disposal					Non-Hazardous Waste Incinerated On Board		
	Daily Amount Generated (kg)	Monthly Amount Generated (kg)	Daily Disposed of Off Site (kg)	Monthly Disposed of Off Site (kg)	Annual Generated and Disposed of Off Site (kg)	Daily Amount Incinerated (kg)	Monthly Amount Incinerated (kg)	Annual Amount Incinerated (kg)
01-Nov-25	0	0	0	0	16,410	0	0	2,049
02-Nov-25	0		0			0		
03-Nov-25	0		0			0		
04-Nov-25	0		0			0		
05-Nov-25	0		0			0		
06-Nov-25	0		0			0		
07-Nov-25	0		0			0		
08-Nov-25	0		0			0		
09-Nov-25	0		0			0		
10-Nov-25	0		0			0		
11-Nov-25	0		0			0		
12-Nov-25	0		0			0		
13-Nov-25	0		0			0		
14-Nov-25	0		0			0		
15-Nov-25	0		0			0		
16-Nov-25	0		0			0		
17-Nov-25	0		0			0		
18-Nov-25	0		0			0		
19-Nov-25	0		0			0		
20-Nov-25	0		0			0		
21-Nov-25	0		0			0		
22-Nov-25	0		0			0		
23-Nov-25	0		0			0		
24-Nov-25	0		0			0		
25-Nov-25	0		0			0		
26-Nov-25	0		0			0		
27-Nov-25	0		0			0		
28-Nov-25	0		0			0		
29-Nov-25	0		0			0		
30-Nov-25	0		0			0		
01-Dec-25	0	0	0	0		0	0	
02-Dec-25	0		0			0		
03-Dec-25	0		0			0		
04-Dec-25	0		0			0		
05-Dec-25	0		0			0		
06-Dec-25	0		0			0		
07-Dec-25	0		0			0		
08-Dec-25	0		0			0		
09-Dec-25	0		0			0		
10-Dec-25	0		0			0		
11-Dec-25	0		0			0		
12-Dec-25	0		0			0		
13-Dec-25	0		0			0		
14-Dec-25	0		0			0		
15-Dec-25	0		0			0		
16-Dec-25	0		0			0		
17-Dec-25	0		0			0		
18-Dec-25	0		0			0		
19-Dec-25	0		0			0		
20-Dec-25	0		0			0		
21-Dec-25	0		0			0		
22-Dec-25	0		0			0		
23-Dec-25	0		0			0		
24-Dec-25	0		0			0		
25-Dec-25	0		0			0		
26-Dec-25	0		0			0		
27-Dec-25	0		0			0		
28-Dec-25	0		0			0		
29-Dec-25	0		0			0		
30-Dec-25	0		0			0		
31-Dec-25	0		0			0		

Note:
kg - kilograms

Table D10
Hazardous Waste Generated and Removed From Site for Off Site Disposed
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Hazardous Waste for Off-Site Disposal				
	Daily Amount Generated (kg)	Monthly Amount Generated (kg)	Daily Removed from Site (kg)	Monthly Removed from Site (kg)	Annual Generated and Removed from Site (kg)
01-Jan-25	5	163	0	0	48,775
02-Jan-25	5		0		
03-Jan-25	5		0		
04-Jan-25	5		0		
05-Jan-25	5		0		
06-Jan-25	5		0		
07-Jan-25	5		0		
08-Jan-25	5		0		
09-Jan-25	5		0		
10-Jan-25	5		0		
11-Jan-25	5		0		
12-Jan-25	5		0		
13-Jan-25	5		0		
14-Jan-25	5		0		
15-Jan-25	5		0		
16-Jan-25	5		0		
17-Jan-25	5		0		
18-Jan-25	5		0		
19-Jan-25	5		0		
20-Jan-25	5		0		
21-Jan-25	5		0		
22-Jan-25	5		0		
23-Jan-25	5		0		
24-Jan-25	5		0		
25-Jan-25	5		0		
26-Jan-25	5		0		
27-Jan-25	5		0		
28-Jan-25	5		0		
29-Jan-25	5		0		
30-Jan-25	5		0		
31-Jan-25	5		0		
01-Feb-25	5	147	0	0	
02-Feb-25	5		0		
03-Feb-25	5		0		
04-Feb-25	5		0		
05-Feb-25	5		0		
06-Feb-25	5		0		
07-Feb-25	5		0		
08-Feb-25	5		0		
09-Feb-25	5		0		
10-Feb-25	5		0		
11-Feb-25	5		0		
12-Feb-25	5		0		
13-Feb-25	5		0		
14-Feb-25	5		0		
15-Feb-25	5		0		
16-Feb-25	5		0		
17-Feb-25	5		0		
18-Feb-25	5		0		
19-Feb-25	5		0		
20-Feb-25	5		0		
21-Feb-25	5		0		
22-Feb-25	5		0		
23-Feb-25	5		0		
24-Feb-25	5		0		
25-Feb-25	5		0		
26-Feb-25	5		0		
27-Feb-25	5		0		
28-Feb-25	5		0		

Table D10
Hazardous Waste Generated and Removed From Site for Off Site Disposed
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Hazardous Waste for Off-Site Disposal				
	Daily Amount Generated (kg)	Monthly Amount Generated (kg)	Daily Removed from Site (kg)	Monthly Removed from Site (kg)	Annual Generated and Removed from Site (kg)
01-Mar-25	5	434	0	400	48,775
02-Mar-25	5		0		
03-Mar-25	5		0		
04-Mar-25	5		0		
05-Mar-25	5		0		
06-Mar-25	5		0		
07-Mar-25	5		0		
08-Mar-25	5		0		
09-Mar-25	5		0		
10-Mar-25	5		0		
11-Mar-25	5		0		
12-Mar-25	5		0		
13-Mar-25	5		0		
14-Mar-25	5		0		
15-Mar-25	5		0		
16-Mar-25	5		0		
17-Mar-25	5		0		
18-Mar-25	14		400		
19-Mar-25	14		0		
20-Mar-25	14		0		
21-Mar-25	14		0		
22-Mar-25	14		0		
23-Mar-25	14		0		
24-Mar-25	14		0		
25-Mar-25	14		0		
26-Mar-25	14		0		
27-Mar-25	14		0		
28-Mar-25	14		0		
29-Mar-25	14		0		
30-Mar-25	14		0		
31-Mar-25	14		0		
01-Apr-25	14	434	0	0	
02-Apr-25	14		0		
03-Apr-25	14		0		
04-Apr-25	14		0		
05-Apr-25	14		0		
06-Apr-25	14		0		
07-Apr-25	14		0		
08-Apr-25	14		0		
09-Apr-25	14		0		
10-Apr-25	14		0		
11-Apr-25	14		0		
12-Apr-25	14		0		
13-Apr-25	14		0		
14-Apr-25	14		0		
15-Apr-25	14		0		
16-Apr-25	14		0		
17-Apr-25	14		0		
18-Apr-25	14		0		
19-Apr-25	14		0		
20-Apr-25	14		0		
21-Apr-25	14		0		
22-Apr-25	14		0		
23-Apr-25	14		0		
24-Apr-25	14		0		
25-Apr-25	14		0		
26-Apr-25	14		0		
27-Apr-25	14		0		
28-Apr-25	14		0		
29-Apr-25	14		0		
30-Apr-25	14		0		

Table D10
Hazardous Waste Generated and Removed From Site for Off Site Disposed
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Hazardous Waste for Off-Site Disposal				
	Daily Amount Generated (kg)	Monthly Amount Generated (kg)	Daily Removed from Site (kg)	Monthly Removed from Site (kg)	Annual Generated and Removed from Site (kg)
01-May-25	14	448	0	0	48,775
02-May-25	14		0		
03-May-25	14		0		
04-May-25	14		0		
05-May-25	14		0		
06-May-25	14		0		
07-May-25	14		0		
08-May-25	14		0		
09-May-25	14		0		
10-May-25	14		0		
11-May-25	14		0		
12-May-25	14		0		
13-May-25	14		0		
14-May-25	14		0		
15-May-25	14		0		
16-May-25	14		0		
17-May-25	14		0		
18-May-25	14		0		
19-May-25	14		0		
20-May-25	14		0		
21-May-25	14		0		
22-May-25	14		0		
23-May-25	14		0		
24-May-25	14		0		
25-May-25	14		0		
26-May-25	14		0		
27-May-25	14		0		
28-May-25	14		0		
29-May-25	14		0		
30-May-25	14		0		
31-May-25	14		0		
01-Jun-25	14	203	0	0	
02-Jun-25	14		0		
03-Jun-25	14		0		
04-Jun-25	14		0		
05-Jun-25	14		0		
06-Jun-25	14		0		
07-Jun-25	14		0		
08-Jun-25	14		0		
09-Jun-25	14		0		
10-Jun-25	14		0		
11-Jun-25	14		0		
12-Jun-25	14		0		
13-Jun-25	14		0		
14-Jun-25	14		0		
15-Jun-25	14		0		
16-Jun-25	14		0		
17-Jun-25	14		0		
18-Jun-25	14		0		
19-Jun-25	14		0		
20-Jun-25	14		0		
21-Jun-25	14		0		
22-Jun-25	14		0		
23-Jun-25	14		0		
24-Jun-25	14		0		
25-Jun-25	14		0		
26-Jun-25	14		0		
27-Jun-25	14		0		
28-Jun-25	14		0		
29-Jun-25	14		0		
30-Jun-25	14		0		

Table D10
Hazardous Waste Generated and Removed From Site for Off Site Disposed
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Hazardous Waste for Off-Site Disposal				
	Daily Amount Generated (kg)	Monthly Amount Generated (kg)	Daily Removed from Site (kg)	Monthly Removed from Site (kg)	Annual Generated and Removed from Site (kg)
01-Jul-25	14	448	0	200	48,775
02-Jul-25	14		0		
03-Jul-25	14		0		
04-Jul-25	14		0		
05-Jul-25	14		0		
06-Jul-25	14		0		
07-Jul-25	14		0		
08-Jul-25	14		0		
09-Jul-25	14		0		
10-Jul-25	14		0		
11-Jul-25	14		0		
12-Jul-25	14		0		
13-Jul-25	14		0		
14-Jul-25	14		0		
15-Jul-25	14		0		
16-Jul-25	14		200		
17-Jul-25	14		0		
18-Jul-25	14		0		
19-Jul-25	14		0		
20-Jul-25	14		0		
21-Jul-25	14		0		
22-Jul-25	14		0		
23-Jul-25	14		0		
24-Jul-25	14		0		
25-Jul-25	14		0		
26-Jul-25	14		0		
27-Jul-25	14		0		
28-Jul-25	14		0		
29-Jul-25	14		0		
30-Jul-25	14		0		
31-Jul-25	14		0		
01-Aug-25	14	9,784	0	2,100	
02-Aug-25	14		0		
03-Aug-25	14		0		
04-Aug-25	14		0		
05-Aug-25	14		0		
06-Aug-25	14		0		
07-Aug-25	14		0		
08-Aug-25	14		0		
09-Aug-25	14		0		
10-Aug-25	14		0		
11-Aug-25	14		0		
12-Aug-25	14		0		
13-Aug-25	14		0		
14-Aug-25	14		0		
15-Aug-25	14		0		
16-Aug-25	14		0		
17-Aug-25	14		0		
18-Aug-25	14		0		
19-Aug-25	14		0		
20-Aug-25	14		0		
21-Aug-25	14		0		
22-Aug-25	14		0		
23-Aug-25	14		0		
24-Aug-25	1,181		2,100		
25-Aug-25	1,181		0		
26-Aug-25	1,181		0		
27-Aug-25	1,181		0		
28-Aug-25	1,181		0		
29-Aug-25	1,181		0		
30-Aug-25	1,181		0		
31-Aug-25	1,181		0		

Table D10
Hazardous Waste Generated and Removed From Site for Off Site Disposed
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Hazardous Waste for Off-Site Disposal				
	Daily Amount Generated (kg)	Monthly Amount Generated (kg)	Daily Removed from Site (kg)	Monthly Removed from Site (kg)	Annual Generated and Removed from Site (kg)
01-Sep-25	1,181	35,442	0	0	48,775
02-Sep-25	1,181		0		
03-Sep-25	1,181		0		
04-Sep-25	1,181		0		
05-Sep-25	1,181		0		
06-Sep-25	1,181		0		
07-Sep-25	1,181		0		
08-Sep-25	1,181		0		
09-Sep-25	1,181		0		
10-Sep-25	1,181		0		
11-Sep-25	1,181		0		
12-Sep-25	1,181		0		
13-Sep-25	1,181		0		
14-Sep-25	1,181		0		
15-Sep-25	1,181		0		
16-Sep-25	1,181		0		
17-Sep-25	1,181		0		
18-Sep-25	1,181		0		
19-Sep-25	1,181		0		
20-Sep-25	1,181		0		
21-Sep-25	1,181		0		
22-Sep-25	1,181		0		
23-Sep-25	1,181		0		
24-Sep-25	1,181		0		
25-Sep-25	1,181		0		
26-Sep-25	1,181		0		
27-Sep-25	1,181		0		
28-Sep-25	1,181		0		
29-Sep-25	1,181		0		
30-Sep-25	1,181		0		
01-Oct-25	1,181	1,181	0	46075	
02-Oct-25	0		46,075		
03-Oct-25	0		0		
04-Oct-25	0		0		
05-Oct-25	0		0		
06-Oct-25	0		0		
07-Oct-25	0		0		
08-Oct-25	0		0		
09-Oct-25	0		0		
10-Oct-25	0		0		
11-Oct-25	0		0		
12-Oct-25	0		0		
13-Oct-25	0		0		
14-Oct-25	0		0		
15-Oct-25	0		0		
16-Oct-25	0		0		
17-Oct-25	0		0		
18-Oct-25	0		0		
19-Oct-25	0		0		
20-Oct-25	0		0		
21-Oct-25	0		0		
22-Oct-25	0		0		
23-Oct-25	0		0		
24-Oct-25	0		0		
25-Oct-25	0		0		
26-Oct-25	0		0		
27-Oct-25	0		0		
28-Oct-25	0		0		
29-Oct-25	0		0		
30-Oct-25	0		0		
31-Oct-25	0		0		

Table D10
Hazardous Waste Generated and Removed From Site for Off Site Disposed
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Hazardous Waste for Off-Site Disposal				
	Daily Amount Generated (kg)	Monthly Amount Generated (kg)	Daily Removed from Site (kg)	Monthly Removed from Site (kg)	Annual Generated and Removed from Site (kg)
01-Nov-25	0	0	0	0	48,775
02-Nov-25	0		0		
03-Nov-25	0		0		
04-Nov-25	0		0		
05-Nov-25	0		0		
06-Nov-25	0		0		
07-Nov-25	0		0		
08-Nov-25	0		0		
09-Nov-25	0		0		
10-Nov-25	0		0		
11-Nov-25	0		0		
12-Nov-25	0		0		
13-Nov-25	0		0		
14-Nov-25	0		0		
15-Nov-25	0		0		
16-Nov-25	0		0		
17-Nov-25	0		0		
18-Nov-25	0		0		
19-Nov-25	0		0		
20-Nov-25	0		0		
21-Nov-25	0		0		
22-Nov-25	0		0		
23-Nov-25	0		0		
24-Nov-25	0		0		
25-Nov-25	0		0		
26-Nov-25	0		0		
27-Nov-25	0		0		
28-Nov-25	0		0		
29-Nov-25	0		0		
30-Nov-25	0		0		
01-Dec-25	0	0	0	0	
02-Dec-25	0		0		
03-Dec-25	0		0		
04-Dec-25	0		0		
05-Dec-25	0		0		
06-Dec-25	0		0		
07-Dec-25	0		0		
08-Dec-25	0		0		
09-Dec-25	0		0		
10-Dec-25	0		0		
11-Dec-25	0		0		
12-Dec-25	0		0		
13-Dec-25	0		0		
14-Dec-25	0		0		
15-Dec-25	0		0		
16-Dec-25	0		0		
17-Dec-25	0		0		
18-Dec-25	0		0		
19-Dec-25	0		0		
20-Dec-25	0		0		
21-Dec-25	0		0		
22-Dec-25	0		0		
23-Dec-25	0		0		
24-Dec-25	0		0		
25-Dec-25	0		0		
26-Dec-25	0		0		
27-Dec-25	0		0		
28-Dec-25	0		0		
29-Dec-25	0		0		
30-Dec-25	0		0		
31-Dec-25	0		0		

Note:
kg - kilograms

Table D11
Contaminated Soil and Water Generated and Removed From Site for Off Site Disposed
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Contaminated Soil for Off-Site Disposal					Contaminated Water for Off-Site Disposal				
	Daily Amount Generated (kg)	Monthly Amount Generated (kg)	Daily Removed from Site (kg)	Monthly Removed from Site (kg)	Annual Generated and Removed from Site (kg)	Daily Amount Generated (m^3)	Monthly Amount Generated (m^3)	Daily Removed from Site (m^3)	Monthly Removed from Site (m^3)	Annual Generated and Removed from Site (m^3)
01-Jan-25	25	775	0	0	3,750	0	0.00	0	0.00	0.6
02-Jan-25	25		0			0		0		
03-Jan-25	25		0			0		0		
04-Jan-25	25		0			0		0		
05-Jan-25	25		0			0		0		
06-Jan-25	25		0			0		0		
07-Jan-25	25		0			0		0		
08-Jan-25	25		0			0		0		
09-Jan-25	25		0			0		0		
10-Jan-25	25		0			0		0		
11-Jan-25	25		0			0		0		
12-Jan-25	25		0			0		0		
13-Jan-25	25		0			0		0		
14-Jan-25	25		0			0		0		
15-Jan-25	25		0			0		0		
16-Jan-25	25		0			0		0		
17-Jan-25	25		0			0		0		
18-Jan-25	25		0			0		0		
19-Jan-25	25		0			0		0		
20-Jan-25	25		0			0		0		
21-Jan-25	25		0			0		0		
22-Jan-25	25		0			0		0		
23-Jan-25	25		0			0		0		
24-Jan-25	25		0			0		0		
25-Jan-25	25		0			0		0		
26-Jan-25	25		0			0		0		
27-Jan-25	25		0			0		0		
28-Jan-25	25		0			0		0		
29-Jan-25	25		0			0		0		
30-Jan-25	25		0			0		0		
31-Jan-25	25		0			0		0		
01-Feb-25	25	700	0	0		0	0.00	0	0.00	
02-Feb-25	25		0			0		0		
03-Feb-25	25		0			0		0		
04-Feb-25	25		0			0		0		
05-Feb-25	25		0			0		0		
06-Feb-25	25		0			0		0		
07-Feb-25	25		0			0		0		
08-Feb-25	25		0			0		0		
09-Feb-25	25		0			0		0		
10-Feb-25	25		0			0		0		
11-Feb-25	25		0			0		0		
12-Feb-25	25		0			0		0		
13-Feb-25	25		0			0		0		
14-Feb-25	25		0			0		0		
15-Feb-25	25		0			0		0		
16-Feb-25	25		0			0		0		
17-Feb-25	25		0			0		0		
18-Feb-25	25		0			0		0		
19-Feb-25	25		0			0		0		
20-Feb-25	25		0			0		0		
21-Feb-25	25		0			0		0		
22-Feb-25	25		0			0		0		
23-Feb-25	25		0			0		0		
24-Feb-25	25		0			0		0		
25-Feb-25	25		0			0		0		
26-Feb-25	25		0			0		0		
27-Feb-25	25		0			0		0		
28-Feb-25	25		0			0		0		

Table D11
Contaminated Soil and Water Generated and Removed From Site for Off Site Disposed
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Contaminated Soil for Off-Site Disposal					Contaminated Water for Off-Site Disposal				
	Daily Amount Generated (kg)	Monthly Amount Generated (kg)	Daily Removed from Site (kg)	Monthly Removed from Site (kg)	Annual Generated and Removed from Site (kg)	Daily Amount Generated (m^3)	Monthly Amount Generated (m^3)	Daily Removed from Site (m^3)	Monthly Removed from Site (m^3)	Annual Generated and Removed from Site (m^3)
01-Mar-25	25	775	0	0	3,750	0	0.05	0	0.00	0.6
02-Mar-25	25		0			0		0		
03-Mar-25	25		0			0		0		
04-Mar-25	25		0			0		0		
05-Mar-25	25		0			0		0		
06-Mar-25	25		0			0		0		
07-Mar-25	25		0			0		0		
08-Mar-25	25		0			0		0		
09-Mar-25	25		0			0		0		
10-Mar-25	25		0			0		0		
11-Mar-25	25		0			0		0		
12-Mar-25	25		0			0		0		
13-Mar-25	25		0			0		0		
14-Mar-25	25		0			0		0		
15-Mar-25	25		0			0		0		
16-Mar-25	25		0			0		0		
17-Mar-25	25		0			0		0		
18-Mar-25	25		0			0.004		0		
19-Mar-25	25		0			0.004		0		
20-Mar-25	25		0			0.004		0		
21-Mar-25	25		0			0.004		0		
22-Mar-25	25		0			0.004		0		
23-Mar-25	25		0			0.004		0		
24-Mar-25	25		0			0.004		0		
25-Mar-25	25		0			0.004		0		
26-Mar-25	25		0			0.004		0		
27-Mar-25	25		0			0.004		0		
28-Mar-25	25		0			0.004		0		
29-Mar-25	25		0			0.004		0		
30-Mar-25	25		0			0.004		0		
31-Mar-25	25		0			0.004		0		
01-Apr-25	0	0	0	0		0.004	0.11	0	0.00	
02-Apr-25	0		0			0.004		0		
03-Apr-25	0		0			0.004		0		
04-Apr-25	0		0			0.004		0		
05-Apr-25	0		0			0.004		0		
06-Apr-25	0		0			0.004		0		
07-Apr-25	0		0			0.004		0		
08-Apr-25	0		0			0.004		0		
09-Apr-25	0		0			0.004		0		
10-Apr-25	0		0			0.004		0		
11-Apr-25	0		0			0.004		0		
12-Apr-25	0		0			0.004		0		
13-Apr-25	0		0			0.004		0		
14-Apr-25	0		0			0.004		0		
15-Apr-25	0		0			0.004		0		
16-Apr-25	0		0			0.004		0		
17-Apr-25	0		0			0.004		0		
18-Apr-25	0		0			0.004		0		
19-Apr-25	0		0			0.004		0		
20-Apr-25	0		0			0.004		0		
21-Apr-25	0		0			0.004		0		
22-Apr-25	0		0			0.004		0		
23-Apr-25	0		0			0.004		0		
24-Apr-25	0		0			0.004		0		
25-Apr-25	0		0			0.004		0		
26-Apr-25	0		0			0.004		0		
27-Apr-25	0		0			0.004		0		
28-Apr-25	0		0			0.004		0		
29-Apr-25	0		0			0.004		0		
30-Apr-25	0		0			0.004		0		

Table D11
Contaminated Soil and Water Generated and Removed From Site for Off Site Disposed
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Contaminated Soil for Off-Site Disposal					Contaminated Water for Off-Site Disposal				
	Daily Amount Generated (kg)	Monthly Amount Generated (kg)	Daily Removed from Site (kg)	Monthly Removed from Site (kg)	Annual Generated and Removed from Site (kg)	Daily Amount Generated (m^3)	Monthly Amount Generated (m^3)	Daily Removed from Site (m^3)	Monthly Removed from Site (m^3)	Annual Generated and Removed from Site (m^3)
01-May-25	0	0	0	0	3,750	0.004	0.12	0	0.00	0.6
02-May-25	0		0			0.004		0		
03-May-25	0		0			0.004		0		
04-May-25	0		0			0.004		0		
05-May-25	0		0			0.004		0		
06-May-25	0		0			0.004		0		
07-May-25	0		0			0.004		0		
08-May-25	0		0			0.004		0		
09-May-25	0		0			0.004		0		
10-May-25	0		0			0.004		0		
11-May-25	0		0			0.004		0		
12-May-25	0		0			0.004		0		
13-May-25	0		0			0.004		0		
14-May-25	0		0			0.004		0		
15-May-25	0		0			0.004		0		
16-May-25	0		0			0.004		0		
17-May-25	0		0			0.004		0		
18-May-25	0		0			0.004		0		
19-May-25	0		0			0.004		0		
20-May-25	0		0			0.004		0		
21-May-25	0		0			0.004		0		
22-May-25	0		0			0.004		0		
23-May-25	0		0			0.004		0		
24-May-25	0		0			0.004		0		
25-May-25	0		0			0.004		0		
26-May-25	0		0			0.004		0		
27-May-25	0		0			0.004		0		
28-May-25	0		0			0.004		0		
29-May-25	0		0			0.004		0		
30-May-25	0		0			0.004		0		
31-May-25	0		0			0.004		0		
01-Jun-25	0	0	0	0		0.004	0.05	0	0.00	
02-Jun-25	0		0			0.004		0		
03-Jun-25	0		0			0.004		0		
04-Jun-25	0		0			0.004		0		
05-Jun-25	0		0			0.004		0		
06-Jun-25	0		0			0.004		0		
07-Jun-25	0		0			0.004		0		
08-Jun-25	0		0			0.004		0		
09-Jun-25	0		0			0.004		0		
10-Jun-25	0		0			0.004		0		
11-Jun-25	0		0			0.004		0		
12-Jun-25	0		0			0.004		0		
13-Jun-25	0		0			0.004		0		
14-Jun-25	0		0			0.004		0		
15-Jun-25	0		0			0.004		0		
16-Jun-25	0		0			0.004		0		
17-Jun-25	0		0			0.004		0		
18-Jun-25	0		0			0.004		0		
19-Jun-24	0		0			0.004		0		
20-Jun-24	0		0			0.004		0		
21-Jun-24	0		0			0.004		0		
22-Jun-24	0		0			0.004		0		
23-Jun-24	0		0			0.004		0		
24-Jun-24	0		0			0.004		0		
25-Jun-24	0		0			0.004		0		
26-Jun-24	0		0			0.004		0		
27-Jun-24	0		0			0.004		0		
28-Jun-24	0		0			0.004		0		
29-Jun-24	0		0			0.004		0		
30-Jun-24	0		0			0.004		0		

Table D11
Contaminated Soil and Water Generated and Removed From Site for Off Site Disposed
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Contaminated Soil for Off-Site Disposal					Contaminated Water for Off-Site Disposal				
	Daily Amount Generated (kg)	Monthly Amount Generated (kg)	Daily Removed from Site (kg)	Monthly Removed from Site (kg)	Annual Generated and Removed from Site (kg)	Daily Amount Generated (m^3)	Monthly Amount Generated (m^3)	Daily Removed from Site (m^3)	Monthly Removed from Site (m^3)	Annual Generated and Removed from Site (m^3)
01-Jul-24	25	775	0	0	3,750	0.004	0.12	0	0.00	0.6
02-Jul-24	25		0			0.004		0		
03-Jul-24	25		0			0.004		0		
04-Jul-24	25		0			0.004		0		
05-Jul-24	25		0			0.004		0		
06-Jul-24	25		0			0.004		0		
07-Jul-24	25		0			0.004		0		
08-Jul-24	25		0			0.004		0		
09-Jul-24	25		0			0.004		0		
10-Jul-24	25		0			0.004		0		
11-Jul-24	25		0			0.004		0		
12-Jul-24	25		0			0.004		0		
13-Jul-24	25		0			0.004		0		
14-Jul-24	25		0			0.004		0		
15-Jul-24	25		0			0.004		0		
16-Jul-24	25		0			0.004		0		
17-Jul-24	25		0			0.004		0		
18-Jul-24	25		0			0.004		0		
19-Jul-24	25		0			0.004		0		
20-Jul-24	25		0			0.004		0		
21-Jul-24	25		0			0.004		0		
22-Jul-24	25		0			0.004		0		
23-Jul-24	25		0			0.004		0		
24-Jul-24	25		0			0.004		0		
25-Jul-24	25		0			0.004		0		
26-Jul-24	25		0			0.004		0		
27-Jul-24	25		0			0.004		0		
28-Jul-24	25		0			0.004		0		
29-Jul-24	25		0			0.004		0		
30-Jul-24	25		0			0.004		0		
31-Jul-24	25		0			0.004		0		
01-Aug-24	25	725	0	0		0.004	0.09	0	0.60	
02-Aug-24	25		0			0.004		0		
03-Aug-24	25		0			0.004		0		
04-Aug-24	25		0			0.004		0		
05-Aug-24	25		0			0.004		0		
06-Aug-24	25		0			0.004		0		
07-Aug-24	25		0			0.004		0		
08-Aug-24	25		0			0.004		0		
09-Aug-24	25		0			0.004		0		
10-Aug-24	25		0			0.004		0		
11-Aug-24	25		0			0.004		0		
12-Aug-24	25		0			0.004		0		
13-Aug-24	25		0			0.004		0		
14-Aug-24	25		0			0.004		0		
15-Aug-24	25		0			0.004		0		
16-Aug-24	25		0			0.004		0		
17-Aug-24	25		0			0.004		0		
18-Aug-24	25		0			0.004		0		
19-Aug-24	25		0			0.004		0		
20-Aug-24	25		0			0.004		0		
21-Aug-24	25		0			0.004		0		
22-Aug-24	25		0			0.004		0		
23-Aug-24	25		0			0.004		0		
24-Aug-24	25		0			0		0.6		
25-Aug-24	25		0			0		0		
26-Aug-24	25		0			0		0		
27-Aug-24	25		0			0		0		
28-Aug-24	25		0			0		0		
29-Aug-24	25		0			0		0		
30-Aug-24	0		0			0		0		
31-Aug-24	0		0			0		0		

Table D11
Contaminated Soil and Water Generated and Removed From Site for Off Site Disposed
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Contaminated Soil for Off-Site Disposal					Contaminated Water for Off-Site Disposal				
	Daily Amount Generated (kg)	Monthly Amount Generated (kg)	Daily Removed from Site (kg)	Monthly Removed from Site (kg)	Annual Generated and Removed from Site (kg)	Daily Amount Generated (m^3)	Monthly Amount Generated (m^3)	Daily Removed from Site (m^3)	Monthly Removed from Site (m^3)	Annual Generated and Removed from Site (m^3)
01-Sep-24	0	0	0	0	3,750	0	0.00	0	0.00	0.6
02-Sep-24	0		0			0		0		
03-Sep-24	0		0			0		0		
04-Sep-24	0		0			0		0		
05-Sep-24	0		0			0		0		
06-Sep-24	0		0			0		0		
07-Sep-24	0		0			0		0		
08-Sep-24	0		0			0		0		
09-Sep-24	0		0			0		0		
10-Sep-24	0		0			0		0		
11-Sep-24	0		0			0		0		
12-Sep-24	0		0			0		0		
13-Sep-24	0		0			0		0		
14-Sep-24	0		0			0		0		
15-Sep-24	0		0			0		0		
16-Sep-24	0		0			0		0		
17-Sep-24	0		0			0		0		
18-Sep-24	0		0			0		0		
19-Sep-24	0		0			0		0		
20-Sep-24	0		0			0		0		
21-Sep-24	0		0			0		0		
22-Sep-24	0		0			0		0		
23-Sep-24	0		0			0		0		
24-Sep-24	0		0			0		0		
25-Sep-24	0		0			0		0		
26-Sep-24	0		0			0		0		
27-Sep-24	0		0			0		0		
28-Sep-24	0		0			0		0		
29-Sep-24	0		0			0		0		
30-Sep-24	0		0			0		0		
01-Oct-24	0	0	0	3750		0	0.00	0	0.00	
02-Oct-24	0		3,750			0		0		
03-Oct-24	0		0			0		0		
04-Oct-24	0		0			0		0		
05-Oct-24	0		0			0		0		
06-Oct-24	0		0			0		0		
07-Oct-24	0		0			0		0		
08-Oct-24	0		0			0		0		
09-Oct-24	0		0			0		0		
10-Oct-24	0		0			0		0		
11-Oct-24	0		0			0		0		
12-Oct-24	0		0			0		0		
13-Oct-24	0		0			0		0		
14-Oct-24	0		0			0		0		
15-Oct-24	0		0			0		0		
16-Oct-24	0		0			0		0		
17-Oct-24	0		0			0		0		
18-Oct-24	0		0			0		0		
19-Oct-24	0		0			0		0		
20-Oct-24	0		0			0		0		
21-Oct-24	0		0			0		0		
22-Oct-24	0		0			0		0		
23-Oct-24	0		0			0		0		
24-Oct-24	0		0			0		0		
25-Oct-24	0		0			0		0		
26-Oct-24	0		0			0		0		
27-Oct-24	0		0			0		0		
28-Oct-24	0		0			0		0		
29-Oct-24	0		0			0		0		
30-Oct-24	0		0			0		0		
31-Oct-24	0		0			0		0		

Table D11
Contaminated Soil and Water Generated and Removed From Site for Off Site Disposed
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Contaminated Soil for Off-Site Disposal					Contaminated Water for Off-Site Disposal				
	Daily Amount Generated (kg)	Monthly Amount Generated (kg)	Daily Removed from Site (kg)	Monthly Removed from Site (kg)	Annual Generated and Removed from Site (kg)	Daily Amount Generated (m^3)	Monthly Amount Generated (m^3)	Daily Removed from Site (m^3)	Monthly Removed from Site (m^3)	Annual Generated and Removed from Site (m^3)
01-Nov-24	0	0	0	0	3,750	0	0.00	0	0.00	0.6
02-Nov-24	0		0			0		0		
03-Nov-24	0		0			0		0		
04-Nov-24	0		0			0		0		
05-Nov-24	0		0			0		0		
06-Nov-24	0		0			0		0		
07-Nov-24	0		0			0		0		
08-Nov-24	0		0			0		0		
09-Nov-24	0		0			0		0		
10-Nov-24	0		0			0		0		
11-Nov-24	0		0			0		0		
12-Nov-24	0		0			0		0		
13-Nov-24	0		0			0		0		
14-Nov-24	0		0			0		0		
15-Nov-24	0		0			0		0		
16-Nov-24	0		0			0		0		
17-Nov-24	0		0			0		0		
18-Nov-24	0		0			0		0		
19-Nov-24	0		0			0		0		
20-Nov-24	0		0			0		0		
21-Nov-24	0		0			0		0		
22-Nov-24	0		0			0		0		
23-Nov-24	0		0			0		0		
24-Nov-24	0		0			0		0		
25-Nov-24	0		0			0		0		
26-Nov-24	0		0			0		0		
27-Nov-24	0		0			0		0		
28-Nov-24	0		0			0		0		
29-Nov-24	0		0			0		0		
30-Nov-24	0		0			0		0		
01-Dec-24	0	0	0	0		0	0.00	0	0.00	
02-Dec-24	0		0			0		0		
03-Dec-24	0		0			0		0		
04-Dec-24	0		0			0		0		
05-Dec-24	0		0			0		0		
06-Dec-24	0		0			0		0		
07-Dec-24	0		0			0		0		
08-Dec-24	0		0			0		0		
09-Dec-24	0		0			0		0		
10-Dec-24	0		0			0		0		
11-Dec-24	0		0			0		0		
12-Dec-24	0		0			0		0		
13-Dec-24	0		0			0		0		
14-Dec-24	0		0			0		0		
15-Dec-24	0		0			0		0		
16-Dec-24	0		0			0		0		
17-Dec-24	0		0			0		0		
18-Dec-24	0		0			0		0		
19-Dec-24	0		0			0		0		
20-Dec-24	0		0			0		0		
21-Dec-24	0		0			0		0		
22-Dec-24	0		0			0		0		
23-Dec-24	0		0			0		0		
24-Dec-24	0		0			0		0		
25-Dec-24	0		0			0		0		
26-Dec-24	0		0			0		0		
27-Dec-24	0		0			0		0		
28-Dec-24	0		0			0		0		
29-Dec-24	0		0			0		0		
30-Dec-24	0		0			0		0		
31-Dec-24	0		0			0		0		

Notes:
kg - kilograms
m^3 - cubic metres

APPENDIX E

Quality Assurance/Quality Control

QUALITY ASSURANCE/QUALITY CONTROL

In conjunction with the field investigations completed to date, a quality assurance/quality control (QA/QC) program was implemented to ensure the integrity of the Surveillance Network Program and groundwater sampling and analytical testing results. The QA/QC program was implemented as described in the QA/QC plan (WSP 2024) that was submitted to and approved by the analyst on 24 June 2024 as per Annex 1 Part B of the Licence, Section 5.

1.0 FIELD PROGRAM

Sampling activities were completed in accordance with WSP Canada Inc.'s (WSP's) technical field procedures by trained WSP personnel. Field activities were documented in field notes and results were recorded on standard field forms. Reusable field equipment involved in the sampling and monitoring of water was decontaminated between sampling locations in accordance with WSP's technical procedures.

Water samples were placed in laboratory-supplied containers suitable for the analytes, and, where applicable, the appropriate laboratory-supplied preservative was added to the samples, as outlined in the following table.

Analyte	Laboratory Containers	Preservative	Field Filtered
BTEX/PHC Fraction F1	2 x 40 mL amber glass vials (no headspace)	$NaHSO_4$	No
PHC Fraction F2	2 x 100 mL amber glass bottles	$NaHSO_4$	No
1,2-Dichloroethane, Ethylene Dibromide	2 x 40 mL amber glass vials (no headspace)	$NaHSO_4$	No
Polycyclic aromatic hydrocarbons	2 x 100 mL amber glass bottles	$NaHSO_4$	No
Routine chemistry[(a)], ammonia, total nitrogen	250 mL plastic bottle	None	No
Total kjeldahl nitrogen	120 mL plastic bottle	H_2SO_4	No
Total lead	120 mL plastic bottle	HNO_3	No
Total mercury	120 mL plastic bottle	HNO_3	No
Total petroleum hydrocarbons	2 x 100 mL amber glass bottles	$NaHSO_4$	No
Total suspended solids	500 mL plastic bottle	None	No

Notes:
BTEX – benzene, toluene, ethylbenzene, xylenes; mL – millilitre

[(a)] Routine chemistry package includes pH, alkalinity, bicarbonate, carbonate, hydroxide, EC, fluoride, chloride, nitrite, nitrate, nitrate-nitrite, sulphate, calcium, magnesium, sodium, potassium, iron, manganese, total dissolved solids, sodium adsorption ratio, hardness and ion balance.

Water samples were given unique identification numbers and the sampling containers were preserved in ice-filled coolers to maintain temperatures below 10 degrees Celsius. Samples were logged onto formal electronic chain-of-custody documents and transported to the AGAT Laboratories (AGAT) in Edmonton, Alberta, for chemical analysis. AGAT is accredited by the Canadian Association for Laboratory Accreditation.

Blind field duplicate groundwater samples were submitted for analysis at a minimum rate of 10 percent of total analyzed samples. Trip and field blanks were submitted for analysis, as necessary, to evaluate the potential for cross-contamination during the sampling and transportation of the samples.

2.0 LABORATORY PROGRAM

The laboratory QA/QC program included adherence to laboratory sampling and analysis protocols (e.g., hold times, sample containers, preservatives, detection limits and approved methodology) and the analysis of laboratory method blanks, laboratory control sample (blank spike), laboratory sample duplicates, surrogate recovery and matrix spikes.

Laboratory method blank samples are free of the target analytes and are analyzed through the same analytical method as the test samples. Method blank results are used to detect interferences or impurities introduced by the laboratory equipment, reagents or solvents.

Laboratory control samples are fortified with a known concentration of the select target analytes and then analyzed through the same analytical method as the test samples. Laboratory control samples are used to monitor the analyte recovery and validate the calibration of the instrumentation.

Surrogate recovery is analyzed for organics parameters by spiking samples with known quantities of surrogate chemicals which have similar chemical properties to the parameters being analyzed. The reported recovery provides an indication of the analytical method accuracy for that sample.

Matrix spikes were conducted by adding known concentrations of the analyte of interest to a sample to evaluate the effects of the sample matrix on the analytical method.

For laboratory duplicate samples, a second aliquot from a randomly selected sample within an analytical batch is processed through the same analytical method. Laboratory duplicate sample results are used to evaluate the reproducibility of the analytical method.

3.0 DATA RECEPTION

Once laboratory analytical results were received, WSP completed a review of field and laboratory quality. This included review of laboratory QC performance to confirm results are within acceptance or alert criteria, as well as evaluation of field duplicate and blank results to confirm they were within alert limits. Upon receipt of the analytical results, relative percent difference (RPD) values between the original samples and their blind field duplicates were calculated as follows:

$$\text{RPD\%} = \frac{|S - D|}{\frac{1}{2}(S + D)} \times 100$$

Where: RPD = relative percent difference
S = sample value
D = blind field duplicate or replicate value.

Since analytical error increases near the reportable detection limit (RDL), an RPD was only calculated where the concentrations of both the original and blind field duplicate samples were greater than five times the RDL. The calculated RPDs were then compared to parameter specific alert limits.

Exceedances of the QC acceptance or alert criteria were investigated with the laboratory and, if warranted, a corrective action report was requested from the laboratory.

4.0 DATA QUALITY REVIEW RESULTS

Results of the data quality review are summarized in Table E1. The RPD calculations and QC results are presented in Tables E2.

Due to the number of Surveillance Network Program (SNP) samples collected (two), no field duplicate SNP samples were collected and submitted to the laboratory as part of the 2025 program. One field blank and one trip blank were submitted for BTEX/PHC Fraction F1 for the water sampling program.

Based on the data quality review, no data quality issues were identified with the SNP sampling program, and one data quality issue was identified with the ash sample. The identified data quality issue did not have a material effect on the overall reliability of the data presented in this report. The data quality review results are discussed in detail in Table E1.

5.0 SUMMARY OF RESULTS

Based on the review of the laboratory and field QA/QC results, no field or laboratory QA/QC issues were identified that would affect the overall conclusions presented in this report. The results reported are considered reliable.

6.0 REFERENCES

WSP (WSP Canada Inc.). 2024. Quality Assurance and Quality Control Plan, Former West Channel Staging Site, Inuvialuit Settlement Region, Northwest Territories. 13 June 2024.

Table E1
Summary of Quality Control Sample Results
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

AGAT Work Order COA	Matrix	AGAT Sample ID Affected	Test Affected	Data Quality Issue	Comments
25E269085	Ash	6646786	2-Hexanone	Matrix spike recovery for 2-hexanone (43%) below the acceptance criteria of (50-140%) for batch 3670.	This data quality issue may represent a potential low bias for this sample. There is no applicable guideline for 2-hexanone, and the results were below detection, therefore indicating that there will not be a material effect on the interpretation of the results of this parameter. Under these circumstances, the 2-hexanone data reported can be considered reliable.
25E313303	Surface Water	n/a	n/a	No data quality issues were identified.	The data are considered reliable.

Notes:
AGAT - AGAT Laboratories
COA - Certificate of Analysis
n/a - not applicable

Table E2
Summary of Field Blank and Trip Blank Sample Results
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Sample Location	Units	Alert Limit	RDL	FB-W-A	TB-W-A
Sample Collection Date				**20-Jun-25**	**20-Jun-25**
AGAT Sample ID				**6837208**	**6837223**
Benzene	mg/L	>5X RDL	0.0005	<0.0005	<0.0005
Toluene	mg/L	>5X RDL	0.0003	<0.0003	<0.0003
Ethylbenzene	mg/L	>5X RDL	0.0005	<0.0005	<0.0005
Xylenes	mg/L	>5X RDL	0.0005	<0.0005	<0.0005

Notes:
Bold/Underlined - value exceeds alert limit
AGAT - AGAT Laboratories
mg/L - milligrams per litre
RDL - reportable detection limit
> - greater than
< - less than

APPENDIX F

Borehole Logs

LIST OF APPLICABLE ABBREVIATIONS

▽	GROUNDWATER LEVEL
%LEL	LOWER EXPLOSIVE LIMIT
µS/cm	MICROSIEMENS PER CENTIMETRE
1,2-DBA	1,2-DIBROMOETHANE
1,2-DCA	1,2-DICHLOROETHANE
ARS	AIR RETURN SAMPLE
As	ARSENIC
AS	AUGER SAMPLE
B-hws	BORON, HOT WATER SOLUBLE
Ba	BARIUM
Bsp	SATURATED PASTE BORON
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	XYLENES
Cr	CHROMIUM
CS	CORE SAMPLE
Cu	COPPER
DP	DIRECT PUSH
dS/m	DECISIEMENS PER METRE
EC	ELECTRICAL CONDUCTIVITY
EPH	EXTRACTABLE PETROLEUM HYDROCARBONS
ELEV.	ELEVATION
F1-F4	PETROLEUM HYDROCARBON FRACTION 1 TO FRACTION 4
FOC	FRACTION ORGANIC CARBON
GS	GRAB SAMPLE
HEPH	HEAVY EXTRACTABLE PETROLEUM HYDROCARBONS
LEPH	LIGHT EXTRACTABLE PETROLEUM HYDROCARBONS
m	METRE
mg/L	MILLIGRAMS PER LITRE
mald	METRES ABOVE LOCAL DATUM
mard	METRES ABOVE RELATIVE DATUM
masl	METRES ABOVE SEA LEVEL
mS/cm	MILLISIEMENS PER CENTIMETRE
MTBE	METHYL TERT-BUTYL ETHER
mTPH	MODIFIED TOTAL PETROLEUM HYDROCARBONS
n/a	NOT APPLICABLE
NA	NOT AVAILABLE
NBN	SEGREGATED ICE IS NON-VISIBLE, WELL BONDED, WITH NO EXCESS ICE.
OVM	ORGANIC VAPOUR MONITOR
PAH	POLYCYCLIC AROMATIC HYDROCARBONS
Pb	LEAD
PCB	POLYCHLORINATED BIPHENYL
pH	CaCl (2:1) WET pH
PHC	PETROLEUM HYDROCARBONS
PJ	PION JAR
ppmv	PARTS PER MILLION BY VOLUME
RC	ROCK CORE
SAL	SALINITY
SC	SOIL CORE
SPT	STANDARD PENETRATION TEST
Sr	STRONTIUM
SS	SPLIT SPOON
ST	STYRENE
USCS	UNIFIED SOIL CLASSIFICATION SYSTEM
VPH	VOLATILE PETROLEUM HYDROCARBONS
VOC	VOLATILE ORGANIC COMPOUNDS
w<PL	MATERIAL IS ESTIMATED TO BE DRIER THAN THE PLASTIC LIMIT
w~PL	MATERIAL IS ESTIMATED TO BE CLOSE TO THE PLASTIC LIMIT
w>PL	MATERIAL IS ESTIMATED TO BE WETTER THAN THE PLASTIC LIMIT
WS	WET SAMPLE
Zn	ZINC

RECORD OF BOREHOLE: MW25-01

CLIENT:	Shell Canada	DATE:	September 24, 2025	ELEVATION:	3.32 m (Ground)
PROJECT:	West Channel			COORDINATES:	N: 7595977.7 m E: 477020.5 m
PROJECT NO:	CA0059450.0868	INCLINATION:	90.0°	COORD SYS:	UTM Zone 08N
LOCATION:	West Channel	CONTRACTOR:	Hiku Drilling	HORZ DATUM:	NAD83

DEPTH (m)	DRILL RIG	DRILL METHOD	MATERIAL PROFILE: DESCRIPTION	USCS	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLING ACTIVITY: TYPE	REC %	BLOWS	N-VALUE	SOIL SAMPLE	ADDITIONAL LAB TESTING	GROUNDWATER OBSERVATIONS	CONSTRUCTION AND INSTALLATION DETAILS
0	Maruka MS800	Solid Stem Auger	(ML) SANDY SILT; brown; cohesive.	ML		0.00								Pipe Stickup: 0.81 m
1														0.00 - 0.70 m bgs: Bentonite
2			- 2.10 m: Assumed Permafrost											
3														0.70 - 4.30 m bgs: Silica Sand 1.00 - 4.00 m bgs: Screen Interval
4						-1.27								4.30 - 4.60 m bgs: Bentonite
			End of hole at 4.60 m.											
5														
6														

DEPTH SCALE: 1:30

HAMMER TYPE:

REV: 0

LOGGED: Lisa Switzer DATE: Sep 24, 2025

CHECKED: AH DATE: Feb 24, 2026

RECORD OF BOREHOLE: MW25-02

CLIENT:	Shell Canada	START DATE:	September 24, 2025	ELEVATION:	3.64 m (Ground)
PROJECT:	West Channel	END DATE:	September 25, 2025	COORDINATES:	N: 7596000.2 m E: 477088.5 m
PROJECT NO:	CA0059450.0868	INCLINATION:	90.0°	COORD SYS:	UTM Zone 08N
LOCATION:	West Channel	CONTRACTOR:	Hiku Drilling	HORZ DATUM:	NAD83

DEPTH (m)	DRILL RIG	DRILL METHOD	MATERIAL PROFILE: DESCRIPTION	USCS	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLING ACTIVITY: TYPE	REC %	BLOWS	N-VALUE	SOIL SAMPLE	ADDITIONAL LAB TESTING	GROUNDWATER OBSERVATIONS	CONSTRUCTION AND INSTALLATION DETAILS
0	Maruka MS800	Solid Stem Auger	(ML) SANDY SILT; brown; cohesive.	ML		0.00								Pipe Stickup: 0.75 m
1			- 1.50 m: Frozen											0.00 - 0.50 m bgs: Bentonite
2			- 2.10 m: Assumed Permafrost											0.50 - 3.70 m bgs: Silica Sand 0.70 - 3.70 m bgs: Screen Interval
3														
4			End of hole at 4.00 m.			-0.36								3.70 - 4.00 m bgs: Bentonite
5														
6														

DEPTH SCALE: 1:30

HAMMER TYPE:

REV: 0

LOGGED: Lisa Switzer DATE: Sep 24, 2025

CHECKED: AH DATE: Feb 24, 2026

RECORD OF BOREHOLE: MW25-03

CLIENT:	Shell Canada	DATE:	September 25, 2025	ELEVATION:	3.38 m (Ground)
PROJECT:	West Channel			COORDINATES:	N: 7596049.7 m E: 477102.6 m
PROJECT NO:	CA0059450.0868	INCLINATION:	90.0°	COORD SYS:	UTM Zone 08N
LOCATION:	West Channel	CONTRACTOR:	Hiku Drilling	HORZ DATUM:	NAD83

DEPTH (m)	DRILL RIG	DRILL METHOD	MATERIAL PROFILE: DESCRIPTION	USCS	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLING ACTIVITY: TYPE	REC %	BLOWS	N-VALUE	SOIL SAMPLE	ADDITIONAL LAB TESTING	GROUNDWATER OBSERVATIONS	CONSTRUCTION AND INSTALLATION DETAILS
0	Maruka MS800	Solid Stem Auger	(ML) SILT; brown; cohesive.	ML		0.00								Pipe Stickup: 0.70 m
														0.00 - 1.00 m bgs: Bentonite
														1.00 - 4.60 m bgs: Silica Sand
														1.29 - 4.60 m bgs: Screen Interval
			- 3.70 m: Assumed Permafrost											
						-1.22								
			End of hole at 4.60 m.											

DEPTH SCALE: 1:30

HAMMER TYPE:

REV: 0

LOGGED: LS

DATE: Sep 25, 2025

CHECKED: AH

DATE: Feb 24, 2026

RECORD OF BOREHOLE: MW25-04

CLIENT:	Shell Canada	DATE:	September 25, 2025	ELEVATION:	3.00 m (Ground)
PROJECT:	West Channel			COORDINATES:	N: 7596049.2 m E: 477144.3 m
PROJECT NO:	CA0059450.0868	INCLINATION:	90.0°	COORD SYS:	UTM Zone 08N
LOCATION:	West Channel	CONTRACTOR:	Hiku Drilling	HORZ DATUM:	NAD83

DEPTH (m)	DRILL RIG	DRILL METHOD	MATERIAL PROFILE: DESCRIPTION	USCS	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLING ACTIVITY: TYPE	REC %	BLOWS	N-VALUE	SOIL SAMPLE	ADDITIONAL LAB TESTING	GROUNDWATER OBSERVATIONS	CONSTRUCTION AND INSTALLATION DETAILS
0	Maruka MS800	Hollow Stem Auger	(ML) SANDY SILT; brown; cohesive.	ML		0.00								Pipe Stickup: 0.84 m
1														0.00 - 1.20 m bgs: Bentonite
2														
3														1.20 - 4.80 m bgs: Silica Sand 1.50 - 4.60 m bgs: Screen Interval
4														
						-1.80								
5			End of hole at 4.80 m.											
6														

DEPTH SCALE: 1:30

HAMMER TYPE:

REV: 0

LOGGED: LS

DATE: Sep 25, 2025

CHECKED: AH

DATE: Feb 24, 2026

RECORD OF BOREHOLE: MW25-05

CLIENT:	Shell Canada	DATE:	September 26, 2025	ELEVATION:	2.60 m (Ground)
PROJECT:	West Channel			COORDINATES:	N: 7596010.6 m E: 477184.6 m
PROJECT NO:	CA0059450.0868	INCLINATION:	90.0°	COORD SYS:	UTM Zone 08N
LOCATION:	West Channel	CONTRACTOR:	Hiku Drilling	HORZ DATUM:	NAD83

DEPTH (m)	DRILL RIG	DRILL METHOD	MATERIAL PROFILE: DESCRIPTION	USCS	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLING ACTIVITY: TYPE	REC %	BLOWS	N-VALUE	SOIL SAMPLE	ADDITIONAL LAB TESTING	GROUNDWATER OBSERVATIONS	CONSTRUCTION AND INSTALLATION DETAILS
0	Maruka MS800	Hollow Stem Auger	(ML) SANDY SILT; brown; cohesive.	ML		0.00								Pipe Stickup: 0.76 m
1														0.00 - 1.45 m bgs: Bentonite
2														
3														1.75 - 4.75 m bgs: Screen Interval
4														1.45 - 5.10 m bgs: Silica Sand
5						-2.50								
			End of hole at 5.10 m.											
6														

DEPTH SCALE: 1:30

HAMMER TYPE:

REV: 0

LOGGED: MW

DATE: Sep 26, 2025

CHECKED: AH

DATE: Feb 24, 2026

RECORD OF BOREHOLE: MW25-06

CLIENT:	Shell Canada	START DATE:	September 27, 2025	ELEVATION:	3.04 m (Ground)
PROJECT:	West Channel	END DATE:	September 26, 2025	COORDINATES:	N: 7595986.8 m E: 477148.1 m
PROJECT NO:	CA0059450.0868	INCLINATION:	90.0°	COORD SYS:	UTM Zone 08N
LOCATION:	West Channel	CONTRACTOR:	Hiku Drilling	HORZ DATUM:	NAD83

DEPTH (m)	DRILL RIG	DRILL METHOD	MATERIAL PROFILE: DESCRIPTION	USCS	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLING ACTIVITY: TYPE	REC %	BLOWS	N-VALUE	SOIL SAMPLE	ADDITIONAL LAB TESTING	GROUNDWATER OBSERVATIONS	CONSTRUCTION AND INSTALLATION DETAILS
0	Maruka MS800	Solid Stem Auger	(ML) SANDY SILT; brown; cohesive.	ML		0.00								Pipe Stickup: 0.78 m
1														0.00 - 1.20 m bgs: Bentonite
2														
3			- 3.30 m: Assumed Permafrost											1.20 - 4.75 m bgs: Silica Sand 1.50 - 4.50 m bgs: Screen Interval
4						-1.71								
5			End of hole at 4.75 m.											
6														

DEPTH SCALE: 1:30

HAMMER TYPE:

REV: 0

LOGGED: MW

DATE: Sep 27, 2025

CHECKED: AH

DATE: Feb 24, 2026

RECORD OF BOREHOLE: MW25-07

CLIENT:	Shell Canada	DATE:	September 27, 2025	ELEVATION:	2.25 m (Ground)
PROJECT:	West Channel			COORDINATES:	N: 7596042.5 m E: 477190.2 m
PROJECT NO:	CA0059450.0868	INCLINATION:	90.0°	COORD SYS:	UTM Zone 08N
LOCATION:	West Channel	CONTRACTOR:	Hiku Drilling	HORZ DATUM:	NAD83

DEPTH (m)	DRILL RIG	DRILL METHOD	MATERIAL PROFILE: DESCRIPTION	USCS	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLING ACTIVITY: TYPE	REC %	BLOWS	N-VALUE	SOIL SAMPLE	ADDITIONAL LAB TESTING	GROUNDWATER OBSERVATIONS	CONSTRUCTION AND INSTALLATION DETAILS
0	Maruka MS800	Hollow Stem Auger	(ML) SANDY SILT; dark brown; cohesive.	ML		0.00								Pipe Stickup: 0.71 m
1														0.00 - 0.60 m bgs: Bentonite
2														
3														0.60 - 4.15 m bgs: Silica Sand 1.00 - 4.00 m bgs: Screen Interval
4						-1.90								
			End of hole at 4.15 m.											
5														
6														

DEPTH SCALE: 1:30

HAMMER TYPE:

REV: 0

LOGGED: MW

DATE: Sep 27, 2025

CHECKED: AH

DATE: Feb 24, 2026

RECORD OF BOREHOLE: MW25-08

CLIENT:	Shell Canada	DATE:	September 25, 2025	ELEVATION:	2.94 m (Ground)
PROJECT:	West Channel			COORDINATES:	N: 7596073.6 m E: 477164.7 m
PROJECT NO:	CA0059450.0868	INCLINATION:	90.0°	COORD SYS:	UTM Zone 08N
LOCATION:	West Channel	CONTRACTOR:	Hiku Drilling	HORZ DATUM:	NAD83

DEPTH (m)	DRILL RIG	DRILL METHOD	MATERIAL PROFILE: DESCRIPTION	USCS	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLING ACTIVITY: TYPE	REC %	BLOWS	N-VALUE	SOIL SAMPLE	ADDITIONAL LAB TESTING	GROUNDWATER OBSERVATIONS	CONSTRUCTION AND INSTALLATION DETAILS
0	Maruka MS800	Solid Stem Auger	(ML) SILT; greyish brown; cohesive.	ML		0.00								Pipe Stickup: 0.85 m
1														0.00 - 1.20 m bgs: Bentonite
2														
3			- 3.00 m: Assumed Permafrost											1.20 - 4.50 m bgs: Screen Interval 1.20 - 4.60 m bgs: Silica Sand
4						-1.66								
5			End of hole at 4.60 m.											
6														

DEPTH SCALE: 1:30

HAMMER TYPE:

REV: 0

LOGGED: LS

DATE: Sep 25, 2025

CHECKED: AH

DATE: Feb 24, 2026

APPENDIX G

Air and Wildlife Monitoring

Table G1
Oxidizer Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Treatment Cell	Date	Time	Exhaust Colour	Exhaust Opacity	Additional Observations and Notes
1, 2, 3, 4, 5	07-Jan-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	08-Jan-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	09-Jan-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	10-Jan-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	11-Jan-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	12-Jan-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	13-Jan-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	14-Jan-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	15-Jan-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	16-Jan-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	17-Jan-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	18-Jan-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	19-Jan-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	20-Jan-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	21-Jan-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	22-Jan-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	23-Jan-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	24-Jan-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	25-Jan-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	26-Jan-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	27-Jan-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	28-Jan-2025	AM/PM	No Colour	Transparent	Cell 3B slightly cloudy
1, 2, 3, 4, 5	29-Jan-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	30-Jan-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	31-Jan-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	01-Feb-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	02-Feb-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	03-Feb-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	04-Feb-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	05-Feb-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	06-Feb-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	07-Feb-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	08-Feb-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	09-Feb-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	10-Feb-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	11-Feb-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	12-Feb-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	13-Feb-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	14-Feb-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	15-Feb-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	16-Feb-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	17-Feb-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	18-Feb-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	19-Feb-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	20-Feb-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	21-Feb-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	22-Feb-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	23-Feb-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	24-Feb-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	25-Feb-2025	AM/PM	No Colour	Transparent	

Table G1
Oxidizer Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Treatment Cell	Date	Time	Exhaust Colour	Exhaust Opacity	Additional Observations and Notes
1, 2, 3, 4, 5	26-Feb-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	27-Feb-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	28-Feb-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	01-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	02-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	03-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	04-Mar-2025	AM/PM	no colour	Transparent	
1, 2, 3, 4, 5	05-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	06-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	07-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	08-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	09-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	10-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	11-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	12-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	13-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	14-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	15-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	16-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	17-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	18-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	19-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	20-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	21-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	22-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	23-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	24-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	25-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	26-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	27-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	28-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	29-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	30-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	31-Mar-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	01-Apr-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	02-Apr-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	03-Apr-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	04-Apr-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	05-Apr-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	06-Apr-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	07-Apr-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	08-Apr-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	09-Apr-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	10-Apr-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	11-Apr-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	12-Apr-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	13-Apr-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	14-Apr-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	15-Apr-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	16-Apr-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	01-Jul-2025	AM/PM	No Colour	Transparent	

Table G1
Oxidizer Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Treatment Cell	Date	Time	Exhaust Colour	Exhaust Opacity	Additional Observations and Notes
1, 2, 3, 4, 5	02-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	03-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	04-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	05-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	06-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	07-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	08-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	09-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	10-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	11-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	12-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	13-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	14-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	15-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	16-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	17-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	18-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	19-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	20-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	21-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	22-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	23-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	24-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	25-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	26-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	27-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	28-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	29-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	30-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	31-Jul-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	01-Aug-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	02-Aug-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	03-Aug-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	04-Aug-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	05-Aug-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	06-Aug-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	07-Aug-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	08-Aug-2025	AM/PM	No Colour	Transparent	
1, 2, 3, 4, 5	09-Aug-2025	AM/PM	No Colour	Transparent	
1,2,3,4,5	10-Aug-2025	AM/PM	No Colour	Transparent	
1,2,3,4,5	11-Aug-2025	AM/PM	No Colour	Transparent	
1,2,3,4,5	12-Aug-2025	AM/PM	No Colour	Transparent	
1,2,3,4,5	13-Aug-2025	AM/PM	No Colour	Transparent	
1,2,3,4,5	14-Aug-2025	AM/PM	No Colour	Transparent	
1,2,3,4,5	15-Aug-2025	AM/PM	No Colour	Transparent	
1,2,3,4,5	16-Aug-2025	AM/PM	No Colour	Transparent	
1,2,3,4,5	17-Aug-2025	AM/PM	No Colour	Transparent	
1,2,3,4,5	18-Aug-2025	AM/PM	No Colour	Transparent	
1,2,3,4,5	19-Aug-2025	AM/PM	No Colour	Transparent	
1,2,3,4,5	20-Aug-2025	AM/PM	No Colour	Transparent	
1,2,3,4,5	21-Aug-2025	AM/PM	No Colour	Transparent	

Table G1
Oxidizer Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Treatment Cell	Date	Time	Exhaust Colour	Exhaust Opacity	Additional Observations and Notes
1,2,3,4,5	22-Aug-2025	AM/PM	No Colour	Transparent	
1,2,3,4,5	23-Aug-2025	AM/PM	No Colour	Transparent	
1,2,3,4,5	24-Aug-2025	AM/PM	No Colour	Transparent	
1,2,3,4,5	25-Aug-2025	AM/PM	No Colour	Transparent	
1,2,3,4,5	26-Aug-2025	AM/PM	No Colour	Transparent	
1	27-Aug-2025	AM	No Colour	Transparent	
1	27-Aug-2025	PM	Slightly dark-coloured exhaust observed	Mostly Transparent	Staff made burner adjustments prior to shutdown; resolved before end of day
2,3,4,5	27-Aug-2025	AM/PM	No Colour	Transparent	
1,2,3,4,5	28-Aug-2025	AM/PM	No Colour	Transparent	
1,2,3,4,5	29-Aug-2025	AM/PM	No Colour	Transparent	
1,2,3,4	30-Aug-2025	AM/PM	No Colour	Transparent	Burner 5 decommissioned
1,2,3,4	31-Aug-2025	AM/PM	No Colour	Transparent	
1,2,3,4	01-Sep-2025	AM/PM	No Colour	Transparent	
1,3,4	02-Sep-2025	AM/PM	No Colour	Transparent	Burner 2 decommissioned
1,3,4	03-Sep-2025	AM/PM	No Colour	Transparent	
1,3,4	04-Sep-2025	AM/PM	No Colour	Transparent	
1,3,4	05-Sep-2025	AM/PM	No Colour	Transparent	
1,3,4	06-Sep-2025	AM/PM	No Colour	Transparent	
1,3,4	07-Sep-2025	AM/PM	No Colour	Transparent	
1,3,4	08-Sep-2025	AM/PM	No Colour	Transparent	Burner 4 decommissioned
1,3	09-Sep-2025	AM/PM	No Colour	Transparent	
1,3	10-Sep-2025	AM/PM	No Colour	Transparent	Burner 3 decommissioned
1	11-Sep-2025	AM/PM	No Colour	Transparent	
1	12-Sep-2025	AM/PM	No Colour	Transparent	
1	13-Sep-2025	AM/PM	No Colour	Transparent	
1	14-Sep-2025	AM/PM	No Colour	Transparent	
1	15-Sep-2025	AM	No Colour	Transparent	Burner 1 decommissioned
TecZeros	16-Sep-2025	AM/PM	No Colour	Transparent	TecZeros only
TecZeros	18-Sep-2025	AM/PM	No Colour	Transparent	TecZeros only
TecZeros	20-Sep-2025	PM	No Colour	Transparent	TecZeros only
TecZeros	21-Sep-2025	AM/PM	No Colour	Transparent	TecZeros only
TecZeros	22-Sep-2025	AM/PM	No Colour	Transparent	TecZeros only
TecZeros	23-Sep-2025	PM	No Colour	Transparent	TecZeros only

Table G2
Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
08-Jan-2025	n/a	E	7:54	0/0	
08-Jan-2025	n/a	S	7:56	0/0	
08-Jan-2025	n/a	W	7:58	0/0	
08-Jan-2025	n/a	N	8:00	0/2	
08-Jan-2025	n/a	E	4:00	0/0	
08-Jan-2025	n/a	S	4:02	0/0	
08-Jan-2025	n/a	W	4:04	0/0	
08-Jan-2025	n/a	N	4:06	0/37	
09-Jan-2025	n/a	E	7:48	0/0	
09-Jan-2025	n/a	S	7:50	0/0	
09-Jan-2025	n/a	W	7:52	0/32	
09-Jan-2025	n/a	N	7:54	0/0	
09-Jan-2025	n/a	E	4:33	0/53	
09-Jan-2025	n/a	S	4:35	0/32	
09-Jan-2025	n/a	W	4:37	0/23	
09-Jan-2025	n/a	N	4:39	0/22	
10-Jan-2025	n/a	E	7:35	0/47	
10-Jan-2025	n/a	S	7:37	0/45	
10-Jan-2025	n/a	W	7:39	0/40	
10-Jan-2025	n/a	N	7:41	0/35	
10-Jan-2025	n/a	E	6:35	0/62	
10-Jan-2025	n/a	S	6:37	0/26	
10-Jan-2025	n/a	W	6:39	0/20	
10-Jan-2025	n/a	N	6:41	0/40	
11-Jan-2025	n/a	E	7:39	0/62	
11-Jan-2025	n/a	S	7:41	0/65	
11-Jan-2025	n/a	W	7:43	0/57	
11-Jan-2025	n/a	N	7:45	0/32	
11-Jan-2025	n/a	E	16:10	0/20	
11-Jan-2025	n/a	S	16:12	0/21	
11-Jan-2025	n/a	W	16:14	0/18	
11-Jan-2025	n/a	N	16:16	0/72	
12-Jan-2025	n/a	E	7:50	0/0	
12-Jan-2025	n/a	S	7:52	0/0	
12-Jan-2025	n/a	W	7:54	0/0	
12-Jan-2025	n/a	N	7:56	0/0	
12-Jan-2025	n/a	E	16:02	0/0	
12-Jan-2025	n/a	S	16:04	0/0	
12-Jan-2025	n/a	W	16:06	0/0	
12-Jan-2025	n/a	N	16:08	0/0	
13-Jan-2025	n/a	E	7:40	0/0	
13-Jan-2025	n/a	S	7:42	0/0	
13-Jan-2025	n/a	W	7:44	0/0	
13-Jan-2025	n/a	N	7:46	0/0	
13-Jan-2025	n/a	E	14:30	0/0	
13-Jan-2025	n/a	S	14:32	0/0	
13-Jan-2025	n/a	W	14:34	0/0	
13-Jan-2025	n/a	N	14:36	0/0	

Table G2
Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
14-Jan-2025	S	E	8:00	0/67	
14-Jan-2025	n/a	S	8:02	0/53	
14-Jan-2025	n/a	W	8:04	0/68	
14-Jan-2025	n/a	N	8:06	0/70	
14-Jan-2025	N	E	17:01	0/120	Directly downwind of placement of odourous soils from Excavation D in Cell 1B
14-Jan-2025	n/a	S	17:03	0/34	
14-Jan-2025	n/a	W	17:05	0/17	
14-Jan-2025	n/a	N	17:07	0/37	
15-Jan-2025	N	E	7:30	0/60	
15-Jan-2025	n/a	S	7:32	0/80	
15-Jan-2025	n/a	W	7:34	0/45	
15-Jan-2025	n/a	N	7:36	0/65	
15-Jan-2025	N	E	17:10	0/0	
15-Jan-2025	n/a	S	17:12	0/88	
15-Jan-2025	n/a	W	17:14	0/0	
15-Jan-2025	n/a	N	17:16	0/0	
16-Jan-2025	n/a	E	7:30	0/12	
16-Jan-2025	n/a	S	7:32	0/15	
16-Jan-2025	n/a	W	7:34	0/0	
16-Jan-2025	n/a	N	7:36	0/8	
16-Jan-2025	n/a	E	17:10	0/0	
16-Jan-2025	n/a	S	17:12	0/0	
16-Jan-2025	n/a	W	17:14	0/0	
16-Jan-2025	n/a	N	17:16	0/0	
17-Jan-2025	n/a	E	NA	Extreme cold; no site activities	
18-Jan-2025	n/a	E	16:30	0/0	
18-Jan-2025	n/a	S	16:32	0/0	
18-Jan-2025	n/a	W	16:34	0/0	
18-Jan-2025	n/a	N	16:36	0/21	
19-Jan-2025	n/a	E	7:30	0/0	
19-Jan-2025	n/a	S	7:32	0/0	
19-Jan-2025	n/a	W	7:34	0/0	
19-Jan-2025	n/a	N	7:36	0/0	
19-Jan-2025	n/a	E	16:00	0/0	
19-Jan-2025	n/a	S	16:02	0/0	
19-Jan-2025	n/a	W	16:04	0/0	
19-Jan-2025	n/a	N	16:06	0/0	
20-Jan-2025	N	E	7:45	0/25	
20-Jan-2025	N	S	7:46	0/24	
20-Jan-2025	N	W	7:47	0/50	
20-Jan-2025	N	N	7:48	0/60	
20-Jan-2025	E	E	16:00	0/45	
20-Jan-2025	E	S	16:01	0/0	
20-Jan-2025	E	W	16:02	0/0	
20-Jan-2025	E	N	16:03	0/0	
21-Jan-2025	n/a	E	9:16	0/51	
21-Jan-2025	n/a	S	9:18	0/43	
21-Jan-2025	n/a	W	9:19	0/60	

Table G2
Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
21-Jan-2025	n/a	N	9:20	0/65	
21-Jan-2025	n/a	E	3:45	0/0	
21-Jan-2025	n/a	S	3:47	0/0	
21-Jan-2025	n/a	W	3:48	0/0	
21-Jan-2025	n/a	N	3:50	0/0	
22-Jan-2025	n/a	E	8:09	0/0	
22-Jan-2025	n/a	S	8:10	0/0	
22-Jan-2025	n/a	W	8:12	0/0	
22-Jan-2025	n/a	N	8:14	0/0	
22-Jan-2025	SE	E	4:32	0/0	
22-Jan-2025	SE	S	4:34	0/0	
22-Jan-2025	SE	W	4:35	0/0	
22-Jan-2025	SE	N	4:37	0/0	
23-Jan-2025	n/a	E	8:12	0/0	
23-Jan-2025	n/a	S	8:15	0/0	
23-Jan-2025	n/a	W	8:20	0/0	
23-Jan-2025	n/a	N	8:24	0/40	
23-Jan-2025	SW	E	5:40	0/121	
23-Jan-2025	SW	S	5:45	0/110	
23-Jan-2025	SW	W	5:50	0/128	
23-Jan-2025	SW	N	5:55	0/109	
24-Jan-2025	n/a	E	8:06	0/120	
24-Jan-2025	n/a	S	8:18	0/40	
24-Jan-2025	n/a	W	8:19	0/81	
24-Jan-2025	n/a	N	8:20	0/102	
24-Jan-2025	S	E	4:56	0/148	
24-Jan-2025	S	S	5:00	0/84	
24-Jan-2025	S	W	5:03	0/70	
24-Jan-2025	S	N	5:06	0/105	
25-Jan-2025	W	E	8:12	0/22	
25-Jan-2025	W	S	8:14	0/23	
25-Jan-2025	W	W	8:16	0/24	
25-Jan-2025	W	N	8:18	0/25	
25-Jan-2025	W	E	18:16	0/120	
25-Jan-2025	W	S	18:15	0/138	
25-Jan-2025	W	W	18:12	0/86	
25-Jan-2025	W	N	18:10	0/42	
26-Jan-2025	NE	E	11:02	0/0	
26-Jan-2025	NE	S	11:04	0/2	
26-Jan-2025	NE	W	11:06	0/0	
26-Jan-2025	NE	N	11:08	0/0	
26-Jan-2025	NE	E	16:11	0/0	
26-Jan-2025	NE	S	16:14	0/0	
26-Jan-2025	NE	W	16:16	0/0	
26-Jan-2025	NE	N	16:10	0/0	
27-Jan-2025	N	E	8:32	0/78	
27-Jan-2025	N	S	8:35	0/20	
27-Jan-2025	N	W	8:38	0/103	

Table G2
Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
27-Jan-2025	N	N	8:29	0/320	
27-Jan-2025	N	E	5:26	0/15	
27-Jan-2025	N	S	5:28	0/23	
27-Jan-2025	N	W	5:30	0/20	
27-Jan-2025	N	N	5:22	0/7	
28-Jan-2025	N	E	8:34	0/0	
28-Jan-2025	N	S	8:37	0/0	
28-Jan-2025	N	W	8:40	0/0	
28-Jan-2025	N	N	8:45	0/0	
28-Jan-2025	N	E	17:10	0/0	
28-Jan-2025	N	S	17:13	0/0	
28-Jan-2025	N	W	17:15	0/0	
28-Jan-2025	N	N	17:08	0/0	
29-Jan-2025	N	E	8:51	0/0	
29-Jan-2025	N	S	8:53	0/0	
29-Jan-2025	N	W	8:56	0/0	
29-Jan-2025	N	N	8:59	0/0	
29-Jan-2025	N	E	16:56	5/0	
29-Jan-2025	N	S	17:00	0/0	
29-Jan-2025	N	W	17:03	0/0	
29-Jan-2025	N	N	17:06	0/0	
30-Jan-2025	W	E	9:03	0/0	
30-Jan-2025	W	S	9:06	0/67	
30-Jan-2025	W	W	9:09	0/33	
30-Jan-2025	W	N	9:13	0/110	
30-Jan-2025	W	E	17:00	0/0	
30-Jan-2025	W	S	17:03	0/0	
30-Jan-2025	W	W	17:06	0/0	
30-Jan-2025	W	N	17:09	0/0	
31-Jan-2025	W	E	9:00	0/0	
31-Jan-2025	W	S	9:04	0/0	
31-Jan-2025	W	W	9:07	0/0	
31-Jan-2025	W	N	9:11	0/0	
31-Jan-2025	W	E	16:08	0/0	
31-Jan-2025	W	S	16:12	0/0	
31-Jan-2025	W	W	16:16	0/0	
31-Jan-2025	W	N	16:20	0/0	
01-Feb-2025	W	E	9:14	5/0	
01-Feb-2025	W	S	9:10	0/0	
01-Feb-2025	W	W	9:02	0/70	
01-Feb-2025	W	N	9:22	0/0	
01-Feb-2025	W	E	n/a	Extreme cold; no site activities	
02-Feb-2025	S	E	n/a	Burners are down, no readings to be taken	
03-Feb-2025	S	E	10:50	0/0	
03-Feb-2025	S	S	10:55	0/0	
03-Feb-2025	S	W	11:00	0/0	
03-Feb-2025	S	N	11:05	0/0	
03-Feb-2025	S	E	14:13	0/0	

Table G2
Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
03-Feb-2025	S	S	14:17	0/0	
03-Feb-2025	S	W	14:19	0/0	
03-Feb-2025	S	N	14:22	0/0	
04-Feb-2025	S	E	8:00	0/0	
04-Feb-2025	S	S	8:02	0/0	
04-Feb-2025	S	W	8:04	0/0	
04-Feb-2025	S	N	8:06	0/0	
04-Feb-2025	S	E	15:30	0/0	
04-Feb-2025	S	S	15:32	0/0	
04-Feb-2025	S	W	15:34	0/0	
04-Feb-2025	S	N	15:36	0/0	
05-Feb-2025	n/a	E	7:30	0/0	
05-Feb-2025	n/a	S	7:32	0/0	
05-Feb-2025	n/a	W	7:34	0/0	
05-Feb-2025	n/a	N	7:36	0/0	
05-Feb-2025	n/a	E	14:47	0/0	
05-Feb-2025	n/a	S	14:49	0/0	
05-Feb-2025	n/a	W	14:51	0/0	
05-Feb-2025	n/a	N	14:53	0/0	
06-Feb-2025	n/a	E	7:42	0/0	
06-Feb-2025	n/a	S	7:44	0/0	
06-Feb-2025	n/a	W	7:46	0/0	
06-Feb-2025	n/a	N	7:48	0/0	
06-Feb-2025	n/a	E	17:35	0/0	
06-Feb-2025	n/a	S	17:37	0/0	
06-Feb-2025	n/a	W	17:39	0/0	
06-Feb-2025	n/a	N	17:41	0/0	
07-Feb-2025	n/a	E	7:30	0/0	
07-Feb-2025	n/a	S	7:32	0/0	
07-Feb-2025	n/a	W	7:34	0/0	
07-Feb-2025	n/a	N	7:36	0/0	
07-Feb-2025	n/a	E	17:30	0/0	
07-Feb-2025	n/a	S	17:32	0/0	
07-Feb-2025	n/a	W	17:34	0/0	
07-Feb-2025	n/a	N	17:36	0/0	
08-Feb-2025	n/a	E	7:30	0/0	
08-Feb-2025	n/a	S	7:33	0/0	
08-Feb-2025	n/a	W	7:35	0/0	
08-Feb-2025	n/a	N	7:39	0/0	
08-Feb-2025	n/a	E	18:15	0/0	
08-Feb-2025	n/a	S	18:17	0/0	
08-Feb-2025	n/a	W	18:19	0/0	
08-Feb-2025	n/a	N	18:21	0/0	
09-Feb-2025	n/a	E	7:52	0/0	
09-Feb-2025	n/a	S	7:54	0/0	
09-Feb-2025	n/a	W	7:56	0/0	
09-Feb-2025	n/a	N	7:58	0/0	
09-Feb-2025	n/a	E	16:00	0/0	

Table G2
Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
09-Feb-2025	n/a	S	16:02	0/0	
09-Feb-2025	n/a	W	16:04	0/0	
09-Feb-2025	n/a	N	16:06	0/0	
10-Feb-2025	n/a	E	8:30	0/0	
10-Feb-2025	n/a	S	8:32	0/0	
10-Feb-2025	n/a	W	8:34	0/0	
10-Feb-2025	n/a	N	8:36	0/0	
10-Feb-2025	n/a	E	16:45	0/0	
10-Feb-2025	n/a	S	16:47	0/0	
10-Feb-2025	n/a	W	16:49	0/0	
10-Feb-2025	n/a	N	16:51	0/0	
11-Feb-2025	n/a	E	8:00	0/0	
11-Feb-2025	n/a	S	8:02	0/0	
11-Feb-2025	n/a	W	8:04	0/0	
11-Feb-2025	n/a	N	8:06	0/0	
11-Feb-2025	n/a	E	17:20	0/0	
11-Feb-2025	n/a	S	17:22	0/0	
11-Feb-2025	n/a	W	17:24	0/0	
11-Feb-2025	n/a	N	17:26	0/0	
12-Feb-2025	n/a	E	7:30	0/0	
12-Feb-2025	n/a	S	7:32	0/0	
12-Feb-2025	n/a	W	7:34	0/0	
12-Feb-2025	n/a	N	7:36	0/0	
12-Feb-2025	n/a	E	16:00	0/0	
12-Feb-2025	n/a	S	16:02	0/0	
12-Feb-2025	n/a	W	16:04	0/0	
12-Feb-2025	n/a	N	16:06	0/0	
13-Feb-2025	n/a	E	7:00	0/0	
13-Feb-2025	n/a	S	7:02	0/0	
13-Feb-2025	n/a	W	7:04	0/0	
13-Feb-2025	n/a	N	7:06	0/0	
13-Feb-2025	n/a	E	16:02	0/0	
13-Feb-2025	n/a	S	16:04	0/0	
13-Feb-2025	n/a	W	16:06	0/0	
13-Feb-2025	n/a	N	16:08	0/0	
14-Feb-2025	n/a	E	7:32	0/0	
14-Feb-2025	n/a	S	7:34	0/0	
14-Feb-2025	n/a	W	7:36	0/0	
14-Feb-2025	n/a	N	7:38	0/0	
14-Feb-2025	n/a	E	17:42	0/0	
14-Feb-2025	n/a	S	17:45	0/0	
14-Feb-2025	n/a	W	17:49	0/0	
14-Feb-2025	n/a	N	17:53	0/0	
15-Feb-2025	SE	E	8:13	0/0	
15-Feb-2025	SE	S	8:16	0/0	
15-Feb-2025	SE	W	8:20	0/0	
15-Feb-2025	SE	N	8:24	0/0	
15-Feb-2025	SE	E	18:07	0/0	

Table G2
Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
15-Feb-2025	SE	S	18:10	0/0	
15-Feb-2025	SE	W	18:13	0/0	
15-Feb-2025	SE	N	18:16	0/0	
16-Feb-2025	S	E	8:17	0/0	
16-Feb-2025	S	S	8:19	0/0	
16-Feb-2025	S	W	8:21	0/0	
16-Feb-2025	S	N	8:23	0/0	
16-Feb-2025	S	E	14:33	0/0	
16-Feb-2025	S	S	14:35	0/0	
16-Feb-2025	S	W	14:38	0/0	
16-Feb-2025	S	N	14:41	0/0	
17-Feb-2025	N	E	8:22	0/0	
17-Feb-2025	N	S	8:19	0/0	
17-Feb-2025	N	W	8:16	0/0	
17-Feb-2025	N	N	8:14	0/0	
17-Feb-2025	N	E	3:55	0/0	
17-Feb-2025	N	S	3:58	0/0	
17-Feb-2025	N	W	4:03	0/0	
17-Feb-2025	N	N	4:05	0/0	
18-Feb-2025	N	E	8:34	0/0	
18-Feb-2025	N	S	8:39	0/0	
18-Feb-2025	N	W	8:42	0/0	
18-Feb-2025	N	N	8:45	0/0	
18-Feb-2025	N	E	16:47	0/0	
18-Feb-2025	N	S	16:50	0/0	
18-Feb-2025	N	W	16:55	0/0	
18-Feb-2025	N	N	17:03	0/0	
19-Feb-2025	N	E	8:06	0/0	
19-Feb-2025	N	S	8:09	0/0	
19-Feb-2025	N	W	8:14	0/0	
19-Feb-2025	N	N	8:19	0/0	
19-Feb-2025	N	E	17:03	0/0	
19-Feb-2025	N	S	17:06	0/0	
19-Feb-2025	N	W	17:10	0/0	
19-Feb-2025	N	N	17:14	0/0	
20-Feb-2025	N	E	9:02	0/8562	
20-Feb-2025	N	S	9:06	0/7239	
20-Feb-2025	N	W	9:09	0/6187	
20-Feb-2025	N	N	9:12	0/4759	
20-Feb-2025	N	E	17:56	0/0	
20-Feb-2025	N	S	17:58	0/0	
20-Feb-2025	N	W	18:00	0/0	
20-Feb-2025	N	N	18:03	0/0	
21-Feb-2025	SE	E	8:57	0/362	
21-Feb-2025	SE	S	9:00	0/2397	
21-Feb-2025	SE	W	9:03	0/2180	
21-Feb-2025	SE	N	9:06	0/1628	
21-Feb-2025	SE	E	17:58	0/0	

Table G2
Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
21-Feb-2025	SE	S	18:02	0/0	
21-Feb-2025	SE	W	18:05	0/0	
21-Feb-2025	SE	N	18:08	0/0	
22-Feb-2025	N	E	8:26	0/0	
22-Feb-2025	N	S	8:29	0/0	
22-Feb-2025	N	W	8:31	0/0	
22-Feb-2025	N	N	8:34	0/0	
22-Feb-2025	N	E	18:30	0/0	
22-Feb-2025	N	S	18:32	0/0	
22-Feb-2025	N	W	18:35	0/0	
22-Feb-2025	N	N	18:37	0/0	
23-Feb-2025	N	E	8:34	0/0	
23-Feb-2025	N	S	8:37	0/0	
23-Feb-2025	N	W	8:40	0/0	
23-Feb-2025	N	N	8:43	0/0	
23-Feb-2025	N	E	17:27	0/0	
23-Feb-2025	N	S	17:30	0/0	
23-Feb-2025	N	W	17:33	0/0	
23-Feb-2025	N	N	17:36	0/0	
24-Feb-2025	N	E	8:26	0/0	
24-Feb-2025	N	S	8:29	0/0	
24-Feb-2025	N	W	8:31	0/0	
24-Feb-2025	N	N	8:34	0/0	
24-Feb-2025	N	E	17:03	0/0	
24-Feb-2025	N	S	17:06	0/0	
24-Feb-2025	N	W	17:09	0/0	
24-Feb-2025	N	N	17:12	0/0	
25-Feb-2025	N	E	8:44	0/1866	
25-Feb-2025	N	S	8:47	0/1244	
25-Feb-2025	N	W	8:49	0/1025	
25-Feb-2025	N	N	8:52	0/1178	
25-Feb-2025	N	E	17:10	0/0	
25-Feb-2025	N	S	17:12	0/0	
25-Feb-2025	N	W	17:14	0/0	
25-Feb-2025	N	N	17:16	0/0	
26-Feb-2025	SE	E	7:42	0/0	
26-Feb-2025	SE	S	7:45	0/0	
26-Feb-2025	SE	W	7:48	0/0	
26-Feb-2025	SE	N	7:50	0/0	
26-Feb-2025	SE	E	17:38	0/0	
26-Feb-2025	SE	S	17:40	0/0	
26-Feb-2025	SE	W	17:43	0/0	
26-Feb-2025	SE	N	17:46	0/0	
27-Feb-2025	SE	E	7:50	0/0	
27-Feb-2025	SE	S	7:53	0/0	
27-Feb-2025	SE	W	7:57	0/0	
27-Feb-2025	SE	N	7:58	0/0	
27-Feb-2025	SE	E	18:10	0/0	

Table G2
Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
27-Feb-2025	SE	S	18:12	0/0	
27-Feb-2025	SE	W	18:14	0/0	
27-Feb-2025	SE	N	18:16	0/0	
28-Feb-2025	SE	E	7:40	0/0	
28-Feb-2025	SE	S	7:42	0/0	
28-Feb-2025	SE	W	7:44	0/0	
28-Feb-2025	SE	N	7:46	0/0	
28-Feb-2025	SE	E	18:10	0/0	
28-Feb-2025	SE	S	18:13	0/0	
28-Feb-2025	SE	W	18:15	0/0	
28-Feb-2025	SE	N	18:17	0/0	
02-Mar-2025	n/a	E	18:30	0/0	
02-Mar-2025	n/a	S	18:32	0/0	
02-Mar-2025	n/a	W	18:34	0/0	
02-Mar-2025	n/a	N	18:36	0/0	
03-Mar-2025	N	E	13:30	0/0	
03-Mar-2025	N	S	13:33	0/0	
03-Mar-2025	N	W	13:36	0/0	
03-Mar-2025	N	N	13:39	0/0	
03-Mar-2025	N	E	17:30	0/0	
03-Mar-2025	N	S	17:33	0/0	
03-Mar-2025	N	W	17:36	0/0	
03-Mar-2025	N	N	17:39	0/0	
04-Mar-2025	N	E	8:00	0/0	
04-Mar-2025	N	S	8:05	0/0	
04-Mar-2025	N	W	8:10	0/0	
04-Mar-2025	N	N	8:15	0/0	
04-Mar-2025	N	E	18:00	0/0	
04-Mar-2025	N	S	18:05	0/0	
04-Mar-2025	N	W	18:10	0/0	
04-Mar-2025	N	N	18:15	0/0	
05-Mar-2025	S	E	10:30	0/0	
05-Mar-2025	S	S	10:35	0/0	
05-Mar-2025	S	W	10:40	0/0	
05-Mar-2025	S	N	10:45	0/0	
05-Mar-2025	S	E	16:30	0/0	
05-Mar-2025	S	S	16:35	0/0	
05-Mar-2025	S	W	16:40	0/0	
05-Mar-2025	S	N	16:45	0/0	
06-Mar-2025	S	E	7:47	0/0	
06-Mar-2025	S	S	7:49	0/0	
06-Mar-2025	S	W	7:51	0/0	
06-Mar-2025	S	N	7:53	0/0	
06-Mar-2025	calm	E	17:07	0/0	
06-Mar-2025	calm	S	17:09	0/0	
06-Mar-2025	calm	W	17:11	0/0	
06-Mar-2025	calm	N	17:13	0/0	
07-Mar-2025	S	E	7:45	0/0	

Table G2
Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
07-Mar-2025	S	S	7:47	0/0	
07-Mar-2025	S	W	7:49	0/0	
07-Mar-2025	S	N	7:51	0/0	
07-Mar-2025	calm	E	17:15	0/0	
07-Mar-2025	calm	S	17:17	0/0	
07-Mar-2025	calm	W	17:19	0/0	
07-Mar-2025	calm	N	17:21	0/0	
08-Mar-2025	s	E	7:30	0/0	
08-Mar-2025	s	S	7:32	0/0	
08-Mar-2025	s	W	7:34	0/0	
08-Mar-2025	s	N	7:36	0/0	
08-Mar-2025	calm	E	15:25	0/0	
08-Mar-2025	calm	S	15:27	0/0	
08-Mar-2025	calm	W	15:29	0/0	
08-Mar-2025	calm	N	15:31	0/0	
09-Mar-2025	n/a	E	7:40	0/0	
09-Mar-2025	n/a	S	7:42	0/0	
09-Mar-2025	n/a	W	7:44	0/0	
09-Mar-2025	n/a	N	7:46	0/0	
09-Mar-2025	n/a	E	15:30	0/0	
09-Mar-2025	n/a	S	15:32	0/0	
09-Mar-2025	n/a	W	15:34	0/0	
09-Mar-2025	n/a	N	15:36	0/0	
10-Mar-2025	n/a	E	7:30	0/0	
10-Mar-2025	n/a	S	7:32	0/0	
10-Mar-2025	n/a	W	7:34	0/0	
10-Mar-2025	n/a	N	7:36	0/0	
10-Mar-2025	n/a	E	17:02	0/0	
10-Mar-2025	n/a	S	17:04	0/0	
10-Mar-2025	n/a	W	17:06	0/0	
10-Mar-2025	n/a	N	17:08	0/0	
11-Mar-2025	n/a	E	7:30	0/0	
11-Mar-2025	n/a	S	7:32	0/0	
11-Mar-2025	n/a	W	7:34	0/0	
11-Mar-2025	n/a	N	7:36	0/0	
11-Mar-2025	n/a	E	17:50	0/0	
11-Mar-2025	n/a	S	17:52	0/0	
11-Mar-2025	n/a	W	17:54	0/0	
11-Mar-2025	n/a	N	17:56	0/0	
12-Mar-2025	n/a	E	7:42	0/0	
12-Mar-2025	n/a	S	7:44	0/0	
12-Mar-2025	n/a	W	7:45	0/0	
12-Mar-2025	n/a	N	7:48	0/0	
12-Mar-2025	n/a	E	17:20	0/0	
12-Mar-2025	n/a	S	17:22	0/0	
12-Mar-2025	n/a	W	17:24	0/0	
12-Mar-2025	n/a	N	17:26	0/0	
13-Mar-2025	n/a	E	8:45	0/0	

Table G2
Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
13-Mar-2025	n/a	S	8:49	0/0	
13-Mar-2025	n/a	W	8:52	0/0	
13-Mar-2025	n/a	N	8:55	0/0	
13-Mar-2025	n/a	E	16:36	0/0	
13-Mar-2025	n/a	S	16:30	0/0	
13-Mar-2025	n/a	W	16:33	0/0	
13-Mar-2025	n/a	N	16:39	0/0	
14-Mar-2025	N	E	8:46	0/0	
14-Mar-2025	N	S	8:49	0/0	
14-Mar-2025	N	W	8:53	0/0	
14-Mar-2025	N	N	8:44	0/0	
14-Mar-2025	N	E	16:43	0/0	
14-Mar-2025	N	S	16:46	0/0	
14-Mar-2025	N	W	16:49	0/0	
14-Mar-2025	N	N	16:52	0/0	
15-Mar-2025	N	E	8:46	0/0	
15-Mar-2025	N	S	8:49	0/0	
15-Mar-2025	N	W	8:53	0/0	
15-Mar-2025	N	N	8:44	0/0	
15-Mar-2025	N	E	16:33	0/0	
15-Mar-2025	N	S	16:46	0/0	
15-Mar-2025	N	W	16:48	0/0	
15-Mar-2025	N	N	16:49	0/0	
16-Mar-2025	N	E	8:46	0/0	
16-Mar-2025	N	S	8:49	0/0	
16-Mar-2025	N	W	8:53	0/0	
16-Mar-2025	N	N	8:44	0/0	
16-Mar-2025	N	E	16:43	0/0	
16-Mar-2025	N	S	16:46	0/0	
16-Mar-2025	N	W	16:49	0/0	
16-Mar-2025	N	N	16:52	0/0	
17-Mar-2025	N	E	11:39	0/0	
17-Mar-2025	N	S	11:43	0/0	
17-Mar-2025	N	W	11:47	0/0	
17-Mar-2025	N	N	11:51	0/0	
17-Mar-2025	N	E	14:13	0/0	
17-Mar-2025	N	S	14:15	0/0	
17-Mar-2025	N	W	14:18	0/0	
17-Mar-2025	N	N	14:22	0/0	
18-Mar-2025	NW	E	9:01	0/0	
18-Mar-2025	NW	S	9:03	0/0	
18-Mar-2025	NW	W	9:07	0/0	
18-Mar-2025	NW	N	9:10	0/0	
18-Mar-2025	NW	E	16:21	0/0	
18-Mar-2025	NW	S	16:44	0/0	
18-Mar-2025	NW	W	16:47	0/0	
18-Mar-2025	NW	N	16:48	0/0	
19-Mar-2025	S	E	11:13	0/0	

Table G2
Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
19-Mar-2025	S	S	11:15	0/0	
19-Mar-2025	S	W	11:19	0/0	
19-Mar-2025	S	N	11:21	0/0	
19-Mar-2025	S	E	18:13	0/0	
19-Mar-2025	S	S	18:16	0/0	
19-Mar-2025	S	W	18:18	0/0	
19-Mar-2025	S	N	18:22	0/0	
20-Mar-2025	SE	E	10:18	0/0	
20-Mar-2025	SE	S	10:21	0/0	
20-Mar-2025	SE	W	10:24	0/0	
20-Mar-2025	SE	N	10:27	0/0	
20-Mar-2025	SE	E	17:03	0/0	
20-Mar-2025	SE	S	17:06	0/0	
20-Mar-2025	SE	W	17:08	0/0	
20-Mar-2025	SE	N	17:11	0/0	
21-Mar-2025	SE	E	8:03	0/0	
21-Mar-2025	SE	S	8:06	0/0	
21-Mar-2025	SE	W	8:07	0/0	
21-Mar-2025	SE	N	8:10	0/0	
21-Mar-2025	SE	E	17:55	0/0	
21-Mar-2025	SE	S	17:58	0/0	
21-Mar-2025	SE	W	18:02	0/0	
21-Mar-2025	SE	N	18:04	0/0	
22-Mar-2025	NW	E	11:12	0/599	
22-Mar-2025	NW	S	11:13	0/0	
22-Mar-2025	NW	W	11:15	0/0	
22-Mar-2025	NW	N	11:22	0/0	
22-Mar-2025	NW	E	14:30	0/0	
22-Mar-2025	NW	S	14:33	0/0	
22-Mar-2025	NW	W	14:35	0/0	
22-Mar-2025	NW	N	14:41	0/0	
23-Mar-2025	NE	E	11:03	0/0	
23-Mar-2025	NE	S	11:06	0/0	
23-Mar-2025	NE	W	11:08	0/0	
23-Mar-2025	NE	N	11:12	0/0	
23-Mar-2025	NE	E	17:24	0/0	
23-Mar-2025	NE	S	17:28	0/0	
23-Mar-2025	NE	W	17:30	0/0	
23-Mar-2025	NE	N	17:22	0/0	
24-Mar-2025	N	E	11:20	0/0	
24-Mar-2025	N	S	11:23	0/0	
24-Mar-2025	N	W	11:26	0/0	
24-Mar-2025	N	N	11:30	0/0	
24-Mar-2025	N	E	15:00	0/0	
24-Mar-2025	N	S	15:07	0/0	
24-Mar-2025	N	W	15:09	0/0	
24-Mar-2025	N	N	15:14	0/0	
25-Mar-2025	W	E	10:49	0/0	

Table G2
Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
25-Mar-2025	W	S	10:51	0/0	
25-Mar-2025	W	W	10:53	0/0	
25-Mar-2025	W	N	10:42	0/0	
25-Mar-2025	W	E	15:51	0/0	
25-Mar-2025	W	S	15:53	0/0	
25-Mar-2025	W	W	15:55	0/0	
25-Mar-2025	W	N	15:57	0/0	
26-Mar-2025	S	E	7:50	0/0	
26-Mar-2025	S	S	7:52	0/0	
26-Mar-2025	S	W	7:54	0/0	
26-Mar-2025	S	N	7:56	0/0	
26-Mar-2025	calm	E	15:30	0/0	
26-Mar-2025	calm	S	15:32	0/0	
26-Mar-2025	calm	W	15:34	0/0	
26-Mar-2025	calm	N	15:36	0/0	
27-Mar-2025	S	E	7:30	0/0	
27-Mar-2025	S	S	7:32	0/0	
27-Mar-2025	S	W	7:34	0/0	
27-Mar-2025	S	N	7:36	0/0	
27-Mar-2025	NW	E	17:30	0/0	
27-Mar-2025	NW	S	17:32	0/0	
27-Mar-2025	NW	W	17:34	0/0	
27-Mar-2025	NW	N	17:36	0/0	
28-Mar-2025	N	E	7:50	0/0	
28-Mar-2025	N	S	7:52	0/0	
28-Mar-2025	N	W	7:54	0/0	
28-Mar-2025	N	N	7:56	0/0	
28-Mar-2025	NW	E	16:30	0/0	
28-Mar-2025	NW	S	16:32	0/0	
28-Mar-2025	NW	W	16:34	0/0	
28-Mar-2025	NW	N	16:36	0/0	
29-Mar-2025	N	E	7:30	0/0	
29-Mar-2025	N	S	7:32	0/0	
29-Mar-2025	N	W	7:34	0/0	
29-Mar-2025	N	N	7:36	0/0	
29-Mar-2025	N	E	16:20	0/0	
29-Mar-2025	N	S	16:22	0/0	
29-Mar-2025	N	W	16:24	0/0	
29-Mar-2025	N	N	16:26	0/0	
30-Mar-2025	calm	E	8:00	0/0	
30-Mar-2025	calm	S	8:02	0/0	
30-Mar-2025	calm	W	8:04	0/0	
30-Mar-2025	calm	N	8:06	0/0	
30-Mar-2025	calm	E	16:00	0/0	
30-Mar-2025	calm	S	16:02	0/0	
30-Mar-2025	calm	W	16:04	0/0	
30-Mar-2025	calm	N	16:06	0/0	
31-Mar-2025	S	E	7:30	0/0	

Table G2
Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
31-Mar-2025	S	S	7:32	0/0	
31-Mar-2025	S	W	7:34	0/0	
31-Mar-2025	S	N	7:36	0/0	
31-Mar-2025	calm	E	16:00	0/0	
31-Mar-2025	calm	S	16:02	0/0	
31-Mar-2025	calm	W	16:04	0/0	
31-Mar-2025	calm	N	16:06	0/0	
01-Apr-2025	S	E	7:59	0/0	
01-Apr-2025	S	S	8:01	0/0	
01-Apr-2025	S	W	8:03	0/0	
01-Apr-2025	S	N	8:05	0/0	
01-Apr-2025	S	E	17:10	0/0	
01-Apr-2025	S	S	17:14	0/0	
01-Apr-2025	S	W	17:18	0/0	
01-Apr-2025	S	N	17:22	0/0	
02-Apr-2025	calm	E	7:44	0/0	
02-Apr-2025	calm	S	7:46	0/0	
02-Apr-2025	calm	W	7:48	0/0	
02-Apr-2025	calm	N	7:50	0/0	
02-Apr-2025	calm	E	15:30	0/0	
02-Apr-2025	calm	S	15:32	0/0	
02-Apr-2025	calm	W	15:34	0/0	
02-Apr-2025	calm	N	15:36	0/0	
03-Apr-2025	N	E	7:30	0/0	
03-Apr-2025	N	S	7:32	0/0	
03-Apr-2025	N	W	7:34	0/0	
03-Apr-2025	N	N	7:36	0/0	
03-Apr-2025	S	E	15:35	0/0	
03-Apr-2025	S	S	15:37	0/0	
03-Apr-2025	S	W	15:39	0/0	
03-Apr-2025	S	N	15:41	0/0	
04-Apr-2025	S	E	7:30	0/0	
04-Apr-2025	S	S	7:32	0/0	
04-Apr-2025	S	W	7:34	0/0	
04-Apr-2025	S	N	7:36	0/0	
04-Apr-2025	S	E	15:35	0/0	
04-Apr-2025	S	S	15:37	0/0	
04-Apr-2025	S	W	15:39	0/0	
04-Apr-2025	S	N	15:41	0/0	
05-Apr-2025	S	E	8:30	0/0	
05-Apr-2025	S	S	8:32	0/0	
05-Apr-2025	S	W	8:34	0/0	
05-Apr-2025	S	N	8:34	0/0	
05-Apr-2025	SW	E	16:05	0/0	
05-Apr-2025	SW	S	16:07	0/0	
05-Apr-2025	SW	W	16:09	0/0	
05-Apr-2025	SW	N	16:11	0/58	
06-Apr-2025	S	E	7:30	0/0	

Table G2
Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
06-Apr-2025	S	S	7:32	0/0	
06-Apr-2025	S	W	7:34	0/0	
06-Apr-2025	S	N	7:36	0/0	
06-Apr-2025	S	E	16:14	0/0	
06-Apr-2025	S	S	16:16	0/0	
06-Apr-2025	S	W	16:18	0/0	
06-Apr-2025	S	N	16:20	0/0	
07-Apr-2025	N	E	7:20	0/0	
07-Apr-2025	N	S	7:22	0/0	
07-Apr-2025	N	W	7:24	0/0	
07-Apr-2025	N	N	7:26	0/0	
07-Apr-2025	N	E	16:00	0/0	
07-Apr-2025	N	S	16:02	0/0	
07-Apr-2025	N	W	16:04	0/0	
07-Apr-2025	N	N	16:06	0/0	
08-Apr-2025	NE	E	10:03	0/0	
08-Apr-2025	NE	S	10:06	0/0	
08-Apr-2025	NE	W	10:10	0/0	
08-Apr-2025	NE	N	10:13	0/0	
08-Apr-2025	NE	E	16:51	0/0	
08-Apr-2025	NE	S	16:53	0/0	
08-Apr-2025	NE	W	16:57	0/0	
08-Apr-2025	NE	N	17:00	0/0	
09-Apr-2025	NE	E	8:03	0/0	
09-Apr-2025	NE	S	8:05	0/0	
09-Apr-2025	NE	W	8:09	0/0	
09-Apr-2025	NE	N	8:12	0/0	
09-Apr-2025	NE	E	15:57	0/0	
09-Apr-2025	NE	S	16:00	0/0	
09-Apr-2025	NE	W	16:02	0/0	
09-Apr-2025	NE	N	16:05	0/0	
10-Apr-2025	N	E	7:47	0/0	
10-Apr-2025	N	S	7:51	0/0	
10-Apr-2025	N	W	7:53	0/0	
10-Apr-2025	N	N	7:55	0/0	
10-Apr-2025	N	E	14:22	0/0	
10-Apr-2025	N	S	14:26	0/0	
10-Apr-2025	N	W	14:28	0/0	
10-Apr-2025	N	N	14:30	0/0	
11-Apr-2025	NW	E	7:31	0/0	
11-Apr-2025	NW	S	7:34	0/0	
11-Apr-2025	NW	W	7:36	0/0	
11-Apr-2025	NW	N	7:40	0/0	
11-Apr-2025	NW	E	1:57	0/0	
11-Apr-2025	NW	S	2:00	0/0	
11-Apr-2025	NW	W	2:03	0/0	
11-Apr-2025	NW	N	2:07	0/0	
12-Apr-2025	NW	E	17:06	0/0	

Table G2
Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
12-Apr-2025	NW	S	17:08	0/0	
12-Apr-2025	NW	W	17:10	0/0	
12-Apr-2025	NW	N	17:12	0/0	
13-Apr-2025	E	E	11:03	0/0	
13-Apr-2025	E	S	11:05	0/0	
13-Apr-2025	E	W	11:08	0/0	
13-Apr-2025	E	N	11:11	0/0	
13-Apr-2025	E	E	17:51	0/0	
13-Apr-2025	E	S	17:53	0/0	
13-Apr-2025	E	W	17:55	0/0	
13-Apr-2025	E	N	17:58	0/0	
14-Apr-2025	S	E	11:51	0/0	
14-Apr-2025	S	S	11:53	0/0	
14-Apr-2025	S	W	11:56	0/0	
14-Apr-2025	S	N	11:58	0/0	
14-Apr-2025	S	E	18:03	0/0	
14-Apr-2025	S	S	18:05	0/0	
14-Apr-2025	S	W	18:07	0/0	
14-Apr-2025	S	N	18:10	0/0	
15-Apr-2025	N	E	10:13	0/0	
15-Apr-2025	N	S	10:16	0/0	
15-Apr-2025	N	W	10:17	0/0	
15-Apr-2025	N	N	10:19	0/0	
15-Apr-2025	N	E	18:21	0/0	
15-Apr-2025	N	S	18:24	0/0	
15-Apr-2025	N	W	18:27	0/0	
15-Apr-2025	N	N	18:31	0/0	
16-Apr-2025	NW	E	11:17	0/0	
16-Apr-2025	NW	S	11:19	0/0	
16-Apr-2025	NW	W	11:23	0/0	
16-Apr-2025	NW	N	11:27	0/0	
16-Apr-2025	NW	E	14:11	0/0	
16-Apr-2025	NW	S	14:13	0/0	
16-Apr-2025	NW	W	14:17	0/0	
16-Apr-2025	NW	N	14:19	0/0	
01-Jul-2025	S	E	8:49	0/0	
01-Jul-2025	S	S	8:51	0/0	
01-Jul-2025	S	W	8:53	0/0	
01-Jul-2025	S	N	8:55	0/0	
01-Jul-2025	S	E	18:17	0/0	
01-Jul-2025	S	S	18:19	0/0	
01-Jul-2025	S	W	18:21	0/0	
01-Jul-2025	S	N	18:24	0/0	
02-Jul-2025	S	E	8:11	0/0	
02-Jul-2025	S	S	8:14	0/0	
02-Jul-2025	S	W	8:16	0/0	
02-Jul-2025	S	N	8:20	0/0	
02-Jul-2025	S	E	17:07	0/0	

Table G2
Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
02-Jul-2025	S	S	17:13	0/0	
02-Jul-2025	S	W	17:15	0/0	
02-Jul-2025	S	N	17:17	0/0	
03-Jul-2025	N	E	7:52	0/0	
03-Jul-2025	N	S	7:54	0/0	
03-Jul-2025	N	W	7:57	0/0	
03-Jul-2025	N	N	7:59	0/0	
03-Jul-2025	N	E	17:15	0/0	
03-Jul-2025	N	S	17:19	0/0	
03-Jul-2025	N	W	17:22	0/0	
03-Jul-2025	N	N	17:25	0/0	
04-Jul-2025	NW	E	7:51	0/0	
04-Jul-2025	NW	S	7:56	0/0	
04-Jul-2025	NW	W	7:58	0/0	
04-Jul-2025	NW	N	7:59	0/0	
04-Jul-2025	NW	E	15:56	0/0	
04-Jul-2025	NW	S	16:00	0/0	
04-Jul-2025	NW	W	16:03	0/0	
04-Jul-2025	NW	N	16:05	0/0	
05-Jul-2025	N	E	7:48	0/0	
05-Jul-2025	N	S	7:52	0/0	
05-Jul-2025	N	W	7:54	0/0	
05-Jul-2025	N	N	7:58	0/0	
05-Jul-2025	N	E	17:13	0/0	
05-Jul-2025	N	S	17:16	0/0	
05-Jul-2025	N	W	17:19	0/0	
05-Jul-2025	N	N	17:22	0/0	
06-Jul-2025	S	E	7:55	0/0	
06-Jul-2025	S	S	7:58	0/0	
06-Jul-2025	S	W	7:59	0/0	
06-Jul-2025	S	N	8:02	0/0	
06-Jul-2025	S	E	15:42	0/0	
06-Jul-2025	S	S	15:36	0/0	
06-Jul-2025	S	W	15:47	0/0	
06-Jul-2025	S	N	15:51	0/0	
07-Jul-2025	S	E	8:16	0/0	
07-Jul-2025	S	S	8:19	0/0	
07-Jul-2025	S	W	8:21	0/0	
07-Jul-2025	S	N	8:23	0/0	
07-Jul-2025	S	E	15:30	0/0	
07-Jul-2025	S	S	15:33	0/0	
07-Jul-2025	S	W	15:35	0/0	
07-Jul-2025	S	N	15:37	0/0	
08-Jul-2025	NW	E	8:00	0/0	
08-Jul-2025	NW	S	8:02	0/0	
08-Jul-2025	NW	W	8:04	0/0	
08-Jul-2025	NW	N	8:06	0/0	
08-Jul-2025	NW	E	15:30	0/0	

Table G2
Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
08-Jul-2025	NW	S	15:33	0/0	
08-Jul-2025	NW	W	15:35	0/0	
08-Jul-2025	NW	N	15:37	0/0	
09-Jul-2025	NW	E	8:10	0/0	
09-Jul-2025	NW	S	8:12	0/0	
09-Jul-2025	NW	W	8:14	0/0	
09-Jul-2025	NW	N	8:16	0/0	
09-Jul-2025	NW	E	15:30	0/0	
09-Jul-2025	NW	S	15:32	0/0	
09-Jul-2025	NW	W	15:34	0/0	
09-Jul-2025	NW	N	15:36	0/0	
10-Jul-2025	SW	E	7:40	0/0	
10-Jul-2025	SW	S	7:42	0/0	
10-Jul-2025	SW	W	7:44	0/0	
10-Jul-2025	SW	N	7:46	0/0	
10-Jul-2025	SW	E	15:30	0/0	
10-Jul-2025	SW	S	15:32	0/0	
10-Jul-2025	SW	W	15:34	0/0	
10-Jul-2025	SW	N	15:36	0/0	
11-Jul-2025	NW	E	7:40	0/0	
11-Jul-2025	NW	S	7:42	0/0	
11-Jul-2025	NW	W	7:44	0/0	
11-Jul-2025	NW	N	7:46	0/0	
11-Jul-2025	NW	E	15:33	0/0	
11-Jul-2025	NW	S	15:36	0/0	
11-Jul-2025	NW	W	15:38	0/0	
11-Jul-2025	NW	N	15:41	0/0	
12-Jul-2025	NW	E	8:05	0/0	
12-Jul-2025	NW	S	8:07	0/0	
12-Jul-2025	NW	W	8:09	0/0	
12-Jul-2025	NW	N	8:11	0/0	
12-Jul-2025	NW	E	16:00	0/0	
12-Jul-2025	NW	S	16:02	0/0	
12-Jul-2025	NW	W	16:04	0/0	
12-Jul-2025	NW	N	16:06	0/0	
13-Jul-2025	N	E	7:37	0/0	
13-Jul-2025	N	S	7:40	0/0	
13-Jul-2025	N	W	7:42	0/0	
13-Jul-2025	N	N	7:45	0/0	
13-Jul-2025	N	E	16:39	0/0	
13-Jul-2025	N	S	16:41	0/0	
13-Jul-2025	N	W	16:43	0/0	
13-Jul-2025	N	N	16:47	0/0	
14-Jul-2025	NW	E	7:30	0/0	
14-Jul-2025	NW	S	7:32	0/0	
14-Jul-2025	NW	W	7:34	0/0	
14-Jul-2025	NW	N	7:36	0/0	
14-Jul-2025	NW	E	15:30	0/0	

Table G2
Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
14-Jul-2025	NW	S	15:32	0/0	
14-Jul-2025	NW	W	15:34	0/0	
14-Jul-2025	NW	N	15:36	0/0	
15-Jul-2025	NW	E	7:30	0/0	
15-Jul-2025	NW	S	7:32	0/0	
15-Jul-2025	NW	W	7:34	0/0	
15-Jul-2025	NW	N	7:36	0/0	
15-Jul-2025	NW	E	17:30	0/79	Windy, equipment going by
15-Jul-2025	NW	S	17:32	0/27	Windy, equipment going by
15-Jul-2025	NW	W	17:34	0/0	
15-Jul-2025	NW	N	17:36	0/0	
16-Jul-2025	NW	E	8:00	0/0	
16-Jul-2025	NW	S	8:02	0/0	
16-Jul-2025	NW	W	8:04	0/0	
16-Jul-2025	NW	N	8:06	0/0	
16-Jul-2025	NW	E	15:30	0/0	
16-Jul-2025	NW	S	15:32	0/0	
16-Jul-2025	NW	W	15:34	0/0	
16-Jul-2025	NW	N	15:36	0/0	
17-Jul-2025	NW	E	7:30	0/0	
17-Jul-2025	NW	S	7:32	0/0	
17-Jul-2025	NW	W	7:34	0/0	
17-Jul-2025	NW	N	7:36	0/0	
17-Jul-2025	NW	E	15:40	0/0	
17-Jul-2025	NW	S	15:42	0/0	
17-Jul-2025	NW	W	15:44	0/0	
17-Jul-2025	NW	N	15:46	0/0	
18-Jul-2025	S	E	7:30	0/0	
18-Jul-2025	S	S	7:32	0/0	
18-Jul-2025	S	W	7:34	0/0	
18-Jul-2025	S	N	7:36	0/0	
18-Jul-2025	S	E	16:26	0/0	
18-Jul-2025	S	S	16:31	0/0	
18-Jul-2025	S	W	16:33	0/0	
18-Jul-2025	S	N	16:36	0/0	
19-Jul-2025	E	E	7:30	0/0	
19-Jul-2025	E	S	7:32	0/0	
19-Jul-2025	E	W	7:34	0/0	
19-Jul-2025	E	N	7:36	0/0	
19-Jul-2025	E	E	15:30	0/0	
19-Jul-2025	E	S	15:32	0/0	
19-Jul-2025	E	W	15:34	0/0	
19-Jul-2025	E	N	15:36	0/0	
20-Jul-2025	SE	E	7:30	0/0	
20-Jul-2025	SE	S	7:32	0/0	
20-Jul-2025	SE	W	7:34	0/0	
20-Jul-2025	SE	N	7:36	0/0	
20-Jul-2025	SE	E	18:03	0/0	

Table G2
Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
20-Jul-2025	SE	S	18:06	0/0	
20-Jul-2025	SE	W	18:08	0/0	
20-Jul-2025	SE	N	18:12	0/20	Wind gusts, movement of contaminated soil to treatment area
21-Jul-2025	SE	E	7:45	0/0	Morning high wind gusts
21-Jul-2025	SE	S	7:47	0/0	
21-Jul-2025	SE	W	7:49	0/0	
21-Jul-2025	SE	N	7:51	0/109	
21-Jul-2025	E	E	16:50	0/70	Afternoon wind: 40 km/h
21-Jul-2025	E	S	16:55	0/70	
21-Jul-2025	E	W	16:57	0/256	Fresh Excavation A soils mixing at Cell 5A
21-Jul-2025	E	N	17:00	0/140	Downwind loader work
22-Jul-2025	n/a	E	7:40	0/0	
22-Jul-2025	n/a	S	7:42	0/0	
22-Jul-2025	n/a	W	7:44	0/0	
22-Jul-2025	n/a	N	7:46	0/0	
22-Jul-2025	n/a	E	15:28	0/0	
22-Jul-2025	n/a	S	15:31	0/0	
22-Jul-2025	n/a	W	15:32	0/0	
22-Jul-2025	n/a	N	15:34	0/0	
23-Jul-2025	n/a	E	7:38	0/0	
23-Jul-2025	n/a	S	7:40	0/0	
23-Jul-2025	n/a	W	7:41	0/0	
23-Jul-2025	n/a	N	7:43	0/0	
23-Jul-2025	n/a	E	16:11	0/0	
23-Jul-2025	n/a	S	16:12	0/0	
23-Jul-2025	n/a	W	16:14	0/0	
23-Jul-2025	n/a	N	16:16	0/0	
24-Jul-2025	N	E	8:07	0/0	
24-Jul-2025	N	S	8:09	0/0	
24-Jul-2025	N	W	8:13	0/0	
24-Jul-2025	N	N	8:16	0/0	
24-Jul-2025	N	E	17:58	0/0	
24-Jul-2025	N	S	18:00	0/0	
24-Jul-2025	N	W	18:02	0/0	
24-Jul-2025	N	N	18:03	0/0	
25-Jul-2025	N	E	7:46	0/0	
25-Jul-2025	N	S	7:49	0/0	
25-Jul-2025	N	W	7:50	0/0	
25-Jul-2025	N	N	7:52	0/0	
25-Jul-2025	N	E	16:20	0/0	
25-Jul-2025	N	S	16:22	0/0	
25-Jul-2025	N	W	16:24	0/0	
25-Jul-2025	N	N	16:26	0/0	
26-Jul-2025	W	E	8:09	0/0	Morning wind: 25 to 30 km/h
26-Jul-2025	W	S	8:11	0/0	
26-Jul-2025	W	W	8:13	0/0	
26-Jul-2025	W	N	8:20	0/0	
26-Jul-2025	W	E	16:56	0/0	

Table G2
Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
26-Jul-2025	W	S	16:58	0/0	
26-Jul-2025	W	W	17:01	0/0	
26-Jul-2025	W	N	17:03	0/0	
27-Jul-2025	SE	E	8:01	0/0	Wind: 10 km/h
27-Jul-2025	SE	S	8:05	0/0	
27-Jul-2025	SE	W	8:07	0/0	
27-Jul-2025	SE	N	8:11	0/0	
27-Jul-2025	SE	E	17:05	0/0	Wind: 20 km/h gusts
27-Jul-2025	SE	S	17:08	0/0	
27-Jul-2025	SE	W	17:11	0/0	
27-Jul-2025	SE	N	17:13	0/0	
28-Jul-2025	n/a	E	8:06	0/0	Calm
28-Jul-2025	n/a	S	8:08	0/0	
28-Jul-2025	n/a	W	8:10	0/37	
28-Jul-2025	n/a	N	8:12	0/0	
28-Jul-2025	n/a	E	15:30	0/0	
28-Jul-2025	n/a	S	15:33	0/0	
28-Jul-2025	n/a	W	15:36	0/0	
28-Jul-2025	n/a	N	15:39	0/0	
29-Jul-2025	N	E	7:45	0/0	Wind: 15 km/h
29-Jul-2025	N	S	7:47	0/0	
29-Jul-2025	N	W	7:49	0/0	
29-Jul-2025	N	N	7:51	0/0	
29-Jul-2025	N	E	15:40	0/0	
29-Jul-2025	N	S	15:42	0/0	
29-Jul-2025	N	W	15:44	0/0	
29-Jul-2025	N	N	15:46	0/0	Odour from TecZero noted
30-Jul-2025	N	E	7:45	0/0	
30-Jul-2025	N	S	7:47	0/0	
30-Jul-2025	N	W	7:49	0/0	
30-Jul-2025	N	N	7:51	0/0	
30-Jul-2025	N	E	15:40	0/0	
30-Jul-2025	N	S	15:42	0/0	
30-Jul-2025	N	W	15:45	0/0	
30-Jul-2025	N	N	15:47	0/0	Odour from TecZero noted
31-Jul-2025	NW/calm	E	7:30	0/53	Downwind of quench tower
31-Jul-2025	NW/calm	S	7:32	0/0	
31-Jul-2025	NW/calm	W	7:34	0/0	
31-Jul-2025	NW/calm	N	7:36	0/0	
31-Jul-2025	Calm	E	15:30	0/0	
31-Jul-2025	Calm	S	15:32	0/0	
31-Jul-2025	Calm	W	15:34	0/0	
31-Jul-2025	Calm	N	15:36	0/0	
01-Aug-2025	Calm	E	7:40	0/0	
01-Aug-2025	Calm	S	7:42	0/0	
01-Aug-2025	Calm	W	7:44	0/0	
01-Aug-2025	Calm	N	7:46	0/0	
01-Aug-2025	S	E	15:30	0/0	Wind: 20 km/h

Table G2
Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
01-Aug-2025	S	S	15:32	0/0	
01-Aug-2025	S	W	15:34	0/0	
01-Aug-2025	S	N	15:36	0/0	
02-Aug-2025	SSE	E	7:30	0/0	Wind: 9 km/h
02-Aug-2025	SSE	S	7:32	0/0	
02-Aug-2025	SSE	W	7:34	0/0	
02-Aug-2025	SSE	N	7:36	0/0	
02-Aug-2025	SSE	E	15:30	0/0	
02-Aug-2025	SSE	S	15:32	0/0	
02-Aug-2025	SSE	W	15:34	0/0	
02-Aug-2025	SSE	N	15:36	0/0	
03-Aug-2025	SW	E	8:00	0/0	Wind: 5 km/h
03-Aug-2025	SW	S	8:02	0/0	
03-Aug-2025	SW	W	8:04	0/0	
03-Aug-2025	SW	N	8:06	0/0	
03-Aug-2025	SW	E	15:40	0/0	
03-Aug-2025	SW	S	15:42	0/0	
03-Aug-2025	SW	W	15:44	0/0	
03-Aug-2025	SW	N	15:46	0/0	
04-Aug-2025	Calm	E	7:40	0/0	
04-Aug-2025	Calm	S	7:42	0/0	
04-Aug-2025	Calm	W	7:44	0/0	
04-Aug-2025	Calm	N	7:46	0/0	
04-Aug-2025	Calm	E	16:33	0/0	
04-Aug-2025	Calm	S	16:35	0/0	
04-Aug-2025	Calm	W	16:37	0/0	
04-Aug-2025	Calm	N	16:39	0/0	
05-Aug-2025	N	E	7:55	0/0	Wind: 5 km/h
05-Aug-2025	N	S	7:57	0/0	
05-Aug-2025	N	W	7:59	0/0	
05-Aug-2025	N	N	8:01	0/0	
05-Aug-2025	N	E	18:38	0/0	
05-Aug-2025	N	S	18:40	0/0	
05-Aug-2025	N	W	18:42	0/0	
05-Aug-2025	N	N	18:44	0/0	
06-Aug-2025	N	E	7:30	0/0	Wind: 15 km/h
06-Aug-2025	N	S	7:32	0/0	
06-Aug-2025	N	W	7:34	0/0	
06-Aug-2025	N	N	7:36	0/0	
06-Aug-2025	N	n/a	Afternoon readings not collected due to site stand down (wind)		
07-Aug-2025	NW	E	10:00	0/0	Wind: 20 km/h
07-Aug-2025	NW	S	10:02	0/0	
07-Aug-2025	NW	W	10:04	0/0	
07-Aug-2025	NW	N	10:06	0/0	
07-Aug-2025	NW	E	17:57	0/0	Wind: 15 km/h
07-Aug-2025	NW	S	17:59	0/0	
07-Aug-2025	NW	W	18:01	0/0	
07-Aug-2025	NW	N	18:03	0/0	

Table G2
Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
08-Aug-2025	SE	E	7:30	0/0	Wind: 20 km/h
08-Aug-2025	SE	S	7:32	0/0	
08-Aug-2025	SE	W	7:34	0/0	
08-Aug-2025	SE	N	7:36	0/0	
08-Aug-2025	S	E	15:30	0/0	Wind: 40 km/h gusts
08-Aug-2025	S	S	15:32	0/0	
08-Aug-2025	S	W	15:34	0/0	
08-Aug-2025	S	N	15:36	0/0	
09-Aug-2025	S	E	8:01	0/0	Wind: 10 km/h
09-Aug-2025	S	S	8:03	0/0	
09-Aug-2025	S	W	8:05	0/0	
09-Aug-2025	S	N	8:07	0/0	
09-Aug-2025	S	E	18:20	0/0	
09-Aug-2025	S	S	18:22	0/0	
09-Aug-2025	S	W	18:24	0/0	
09-Aug-2025	S	N	18:26	0/0	
10-Aug-2025	Calm	E	8:10	0/0	
10-Aug-2025	Calm	S	8:12	0/0	
10-Aug-2025	Calm	W	8:14	0/0	
10-Aug-2025	Calm	N	8:16	0/0	
10-Aug-2025	Calm/S to N	E	16:34	0/0	Wind: 10 km/h
10-Aug-2025	Calm/S to N	S	16:39	0/0	
10-Aug-2025	Calm/S to N	W	16:40	0/0	
10-Aug-2025	Calm/S to N	N	1642	0/0	
11-Aug-2025	Calm	E	7:43	0/0	Wind: 10 km/h
11-Aug-2025	Calm	S	7:45	0/0	
11-Aug-2025	Calm	W	7:47	0/0	
11-Aug-2025	Calm	N	7:49	0/0	
11-Aug-2025	NW to SE	E	17:05	0/0	Wind: 18 km/h
11-Aug-2025	NW to SE	S	17:07	0/0	
11-Aug-2025	NW to SE	W	17:10	0/0	
11-Aug-2025	NW to SE	N	17:12	0/0	
12-Aug-2025	NE to SW	E	7:30	0/0	Wind: 11 km/h
12-Aug-2025	NE to SW	S	7:52	0/0	
12-Aug-2025	NE to SW	W	7:55	0/0	
12-Aug-2025	NE to SW	N	7:58	0/0	
12-Aug-2025	NE to SW	E	15:30	0/0	Wind: 18 km/h
12-Aug-2025	NE to SW	S	15:32	0/0	
12-Aug-2025	NE to SW	W	15:35	0/0	
12-Aug-2025	NE to SW	N	15:37	0/0	
13-Aug-2025	NE to SW	n/a	Air monitoring not done due to wildlife sighting on site		
13-Aug-2025	SE to NW	E	16:45	0/0	Wind: 14 km/h
13-Aug-2025	SE to NW	S	16:48	0/0	
13-Aug-2025	SE to NW	W	16:50	0/0	
13-Aug-2025	SE to NW	N	16:55	0/0	
14-Aug-2025	Calm	E	8:02	0/0	
14-Aug-2025	Calm	S	8:04	0/0	
14-Aug-2025	Calm	W	8:06	0/0	

Table G2
Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
14-Aug-2025	Calm	N	8:08	0/0	
14-Aug-2025	NE to SW	E	16:40	0/0	Wind: 21 km/h
14-Aug-2025	NE to SW	S	16:42	0/0	
14-Aug-2025	NE to SW	W	16:45	0/0	
14-Aug-2025	NE to SW	N	16:47	0/0	
15-Aug-2025	Gust	E	8:30	0/0	Wind: 35 km/h
15-Aug-2025	Gust	S	8:32	0/0	
15-Aug-2025	Gust	W	8:34	0/0	
15-Aug-2025	Gust	N	8:36	0/0	
15-Aug-2025	NE to SW	E	16:44	0/0	Wind: 29 km/h
15-Aug-2025	NE to SW	S	16:46	0/0	
15-Aug-2025	NE to SW	W	16:48	0/0	
15-Aug-2025	NE to SW	N	16:50	0/0	
16-Aug-2025	Gust	E	8:10	0/0	Wind: 28 km/h
16-Aug-2025	Gust	S	08:!2	0/0	
16-Aug-2025	Gust	W	8:14	0/0	
16-Aug-2025	Gust	N	16-Aug	0/0	
16-Aug-2025	NW To SE	E	15:45	0/0	Wind: 24 km/h
16-Aug-2025	NW To SE	S	15:47	0/0	
16-Aug-2025	NW To SE	W	15:49	0/0	
16-Aug-2025	NW To SE	N	15:51	0/0	
17-Aug-2025	NE to SW	E	7:54	0/0	Wind: 8 km/h
17-Aug-2025	NE to SW	S	7:56	0/0	
17-Aug-2025	NE to SW	W	7:58	0/0	
17-Aug-2025	NE to SW	N	8:00	0/0	
17-Aug-2025	NE to SW	E	15:30	0/0	Wind: 13 km/h
17-Aug-2025	NE to SW	S	15:32	0/0	
17-Aug-2025	NE to SW	W	15:34	0/0	
17-Aug-2025	NE to SW	N	15:36	0/0	
18-Aug-2025	NW to SE	E	7:45	0/0	Wind: 5 km/h
18-Aug-2025	NW to SE	S	7:47	0/0	
18-Aug-2025	NW to SE	W	7:49	0/0	
18-Aug-2025	NW to SE	N	7:51	0/0	
18-Aug-2025	NW to SE	E	15:30	0/0	Wind: 7 km/h
18-Aug-2025	NW to SE	S	15:32	0/0	
18-Aug-2025	NW to SE	W	15:34	0/0	
18-Aug-2025	NW to SE	N	15:36	0/0	
19-Aug-2025	SW to NE	E	7:50	0/0	Wind: 10 km/h
19-Aug-2025	SW to NE	S	7:52	0/0	
19-Aug-2025	SW to NE	W	7:54	0/0	
19-Aug-2025	SW to NE	N	7:56	0/0	
19-Aug-2025	SW to NE	E	16:53	0/0	Wind: 10 km/h
19-Aug-2025	SW to NE	S	16:55	0/0	
19-Aug-2025	SW to NE	W	16:57	0/0	
19-Aug-2025	SW to NE	N	16:59	0/0	
20-Aug-2025	NE to SW	E	8:00	0/0	Wind: 5 km/h
20-Aug-2025	NE to SW	S	8:02	0/0	
20-Aug-2025	NE to SW	W	8:04	0/0	

Table G2
Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
20-Aug-2025	NE to SW	N	8:06	0/0	
20-Aug-2025	SE to NW	E	15:45	0/0	Wind: 16 km/h
20-Aug-2025	SE to NW	S	15:47	0/0	
20-Aug-2025	SE to NW	W	15:49	0/0	
20-Aug-2025	SE to NW	N	15:51	0/0	
21-Aug-2025	S to N	E	8:40	0	Wind: 13 km/h, No gas reading due to failed instrument
21-Aug-2025	S to N	S	8:42	0	
21-Aug-2025	S to N	W	8:44	0	
21-Aug-2025	S to N	N	8:46	0	
21-Aug-2025	SW to NE	E	15:23	0	Wind: 40 km/h, No gas reading due to failed instrument
21-Aug-2025	SW to NE	S	15:25	0	
21-Aug-2025	SW to NE	W	15:27	0	
21-Aug-2025	SW to NE	N	15:02	0	
22-Aug-2025	W to E	E	8:15	0/0	Wind: 7 km/h
22-Aug-2025	W to E	S	8:17	0/0	
22-Aug-2025	W to E	W	8:19	0/0	
22-Aug-2025	W to E	N	8:21	0/0	
22-Aug-2025	SW to NE	E	16:27	0/0	Wind: 17 km/h
22-Aug-2025	SW to NE	S	16:29	0/0	
22-Aug-2025	SW to NE	W	16:31	0/0	
22-Aug-2025	SW to NE	N	16:33	0/0	
23-Aug-2025	S to N	E	8:35	0/0	Wind: 13 km/h
23-Aug-2025	S to N	S	8:37	0/0	
23-Aug-2025	S to N	W	8:39	0/0	
23-Aug-2025	S to N	N	8:41	0/0	
23-Aug-2025	SW to NE	E	15:30	0/0	Wind: 22 km/h
23-Aug-2025	SW to NE	S	15:32	0/0	
23-Aug-2025	SW to NE	W	15:34	0/0	
23-Aug-2025	SW to NE	N	15:36	0/0	
24-Aug-2025	W to E	E	10:05	0/0	Wind: 21 km/h
24-Aug-2025	W to E	S		0/0	
24-Aug-2025	W to E	W		0/0	
24-Aug-2025	W to E	N		0/0	
24-Aug-2025	NW To SE	E	15:33	0/0	Wind: 14 km/h
24-Aug-2025	NW To SE	S	15:35	0/0	
24-Aug-2025	NW To SE	W	15:37	0/0	
24-Aug-2025	NW To SE	N	15:39	0/0	
25-Aug-2025	n/a	E	7:45	0/0	Wind: 10 km/h
25-Aug-2025	n/a	S	7:47	0/0	
25-Aug-2025	n/a	W	7:49	0/0	
25-Aug-2025	n/a	N	7:51	0/0	
25-Aug-2025	n/a	E	17:04	0/0	Wind: 12 km/h
25-Aug-2025	n/a	S	17:06	0/0	
25-Aug-2025	n/a	W	17:08	0/0	
25-Aug-2025	n/a	N	17:10	0/0	
26-Aug-2025	n/a	E	7:45	0/0	
26-Aug-2025	n/a	S	7:47	0/0	
26-Aug-2025	n/a	W	7:49	0/0	

Table G2
Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
26-Aug-2025	n/a	N	7:51	0/0	
26-Aug-2025	n/a	E	17:04	0/0	Unable to collect data due to site shutdown @ 14:00
26-Aug-2025	n/a	S	17:06	0/0	
26-Aug-2025	n/a	W	17:08	0/0	
26-Aug-2025	n/a	N	17:10	0/0	
27-Aug-2025	NW	E	7:45	0/0	Wind: 5 km/h
27-Aug-2025	NW	S	7:47	0/0	
27-Aug-2025	NW	W	7:49	0/0	
27-Aug-2025	NW	N	7:51	0/0	
27-Aug-2025	N	E	17:04	0/38	Wind: 10 km/h; downwind of passing loader
27-Aug-2025	N	S	17:06	0/88	
27-Aug-2025	N	W	17:08	0/0	
27-Aug-2025	N	N	17:10	0/0	
28-Aug-2025	W	E	8:10	0/0	Wind: 5 km/h
28-Aug-2025	W	S	8:12	0/0	
28-Aug-2025	W	W	8:14	0/0	
28-Aug-2025	W	N	8:16	0/0	
28-Aug-2025	Calm	E	15:20	0/0	
28-Aug-2025	Calm	S	15:22	0/0	
28-Aug-2025	Calm	W	15:24	0/0	
28-Aug-2025	Calm	N	15:26	0/0	
29-Aug-2025	Calm	E	8:02	0/0	
29-Aug-2025	Calm	S	8:04	0/0	
29-Aug-2025	Calm	W	8:06	0/0	
29-Aug-2025	Calm	N	8:08	0/0	
29-Aug-2025	Calm	E	18:10	0/0	
29-Aug-2025	Calm	S	18:12	0/0	
29-Aug-2025	Calm	W	18:14	0/0	
29-Aug-2025	Calm	N	18:16	0/0	
30-Aug-2025	N	E	8:00	0/0	Wind: 20 km/h
30-Aug-2025	N	S	8:02	0/0	
30-Aug-2025	N	W	8:04	0/0	
30-Aug-2025	N	N	8:06	0/0	
30-Aug-2025	N	n/a	Not collected due to site shutdown (wind)		
31-Aug-2025	Calm	E	7:50	0/0	
31-Aug-2025	Calm	S	7:52	0/0	
31-Aug-2025	Calm	W	7:54	0/0	
31-Aug-2025	Calm	N	7:56	0/0	
31-Aug-2025	Calm	E	15:30	0/0	
31-Aug-2025	Calm	S	15:32	0/0	
31-Aug-2025	Calm	W	15:34	0/0	
31-Aug-2025	Calm	N	15:36	0/0	
01-Sep-2025	West	E	8:00	0/0	Wind: 5 km/h
01-Sep-2025	West	S	8:02	0/0	
01-Sep-2025	West	W	8:04	0/0	
01-Sep-2025	West	N	8:06	0/0	
01-Sep-2025	West	E	15:20	0/0	Wind: 5 km/h
01-Sep-2025	West	S	15:22	0/0	

Table G2
Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
01-Sep-2025	West	W	15:24	0/0	
01-Sep-2025	West	N	15:26	0/0	
02-Sep-2025	NW	E	7:30	0/0	Wind: 20 km/h
02-Sep-2025	NW	S	7:32	0/0	
02-Sep-2025	NW	W	7:34	0/0	
02-Sep-2025	NW	N	7:36	0/0	
02-Sep-2025	NW	E	18:42	0/78	Wind: 20 km/h
02-Sep-2025	NW	S	18:44	0/0	
02-Sep-2025	NW	W	18:46	0/0	
02-Sep-2025	NW	N	18:48	0/0	
03-Sep-2025	NW	E	7:38	0/0	Wind: 15 km/h
03-Sep-2025	NW	S	7:40	0/0	
03-Sep-2025	NW	W	7:42	0/0	
03-Sep-2025	NW	N	7:44	0/0	
03-Sep-2025	NW	E	16:30	0/0	
03-Sep-2025	NW	S	16:32	0/0	
03-Sep-2025	NW	W	16:34	0/0	
03-Sep-2025	NW	N	16:36	0/0	
04-Sep-2025	S	E	7:40	0/0	Wind: 15 km/h
04-Sep-2025	S	S	7:42	0/0	
04-Sep-2025	S	W	7:44	0/0	
04-Sep-2025	S	N	7:46	0/0	
04-Sep-2025	S	E	17:15	0/0	Wind: 15 km/h
04-Sep-2025	S	S	17:17	0/0	
04-Sep-2025	S	W	17:19	0/0	
04-Sep-2025	S	N	17:21	0/0	
05-Sep-2025	W	E	8:20	0/0	Wind: 20 km/h
05-Sep-2025	W	S	8:22	0/0	
05-Sep-2025	W	W	8:24	0/0	
05-Sep-2025	W	N	8:26	0/0	
05-Sep-2025	W	E	17:20	0/0	Wind: 20 km/h
05-Sep-2025	W	S	17:22	0/0	
05-Sep-2025	W	W	17:24	0/0	
05-Sep-2025	W	N	17:26	0/0	
06-Sep-2025	S	E	7:50	0/0	Wind: 15 km/h
06-Sep-2025	S	S	7:52	0/0	
06-Sep-2025	S	W	7:54	0/0	
06-Sep-2025	S	N	7:56	0/0	
06-Sep-2025	S	E	17:04	0/0	Wind: 15 km/h
06-Sep-2025	S	S	17:06	0/0	
06-Sep-2025	S	W	17:08	0/0	
06-Sep-2025	S	N	17:10	0/0	
07-Sep-2025	S	E	8:30	0/0	Wind: 25 km/h
07-Sep-2025	S	S	8:32	0/0	
07-Sep-2025	S	W	8:34	0/0	
07-Sep-2025	S	N	8:36	0/0	
07-Sep-2025	S	E	18:10	0/0	Wind: 15 km/h
07-Sep-2025	S	S	18:12	0/0	

Table G2
Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
07-Sep-2025	S	W	18:14	0/0	
07-Sep-2025	S	N	18:16	0/0	
08-Sep-2025	S	E	8:30	0/0	Wind: ~10 km/h
08-Sep-2025	S	S	8:32	0/0	
08-Sep-2025	S	W	8:34	0/0	
08-Sep-2025	S	N	8:36	0/0	
08-Sep-2025	Calm	E	18:12	0/0	
08-Sep-2025	Calm	S	18:14	0/0	
08-Sep-2025	Calm	W	18:16	0/0	
08-Sep-2025	Calm	N	18:18	0/0	
09-Sep-2025	N	E	8:00	0/0	Wind: 15 km/h
09-Sep-2025	N	S	8:02	0/0	
09-Sep-2025	N	W	8:04	0/0	
09-Sep-2025	N	N	8:06	0/0	
09-Sep-2025	N	E	15:50	0/0	Wind: 15 km/h
09-Sep-2025	N	S	15:52	0/0	
09-Sep-2025	N	W	15:54	0/159	
09-Sep-2025	N	N	15:56	0/114	
10-Sep-2025	N	E	7:40	0/0	Wind: 10 km/h
10-Sep-2025	N	S	7:42	0/0	
10-Sep-2025	N	W	7:44	0/0	
10-Sep-2025	N	N	7:46	0/0	
10-Sep-2025	N	E	15:30	0/0	Wind: 5 km/h
10-Sep-2025	N	S	15:32	0/0	
10-Sep-2025	N	W	15:34	0/0	
10-Sep-2025	N	N	15:36	0/0	
11-Sep-2025	N	E	10:39	0/0	Wind: 15 km/h
11-Sep-2025	N	S	10:41	0/0	
11-Sep-2025	N	W	10:43	0/0	
11-Sep-2025	N	N	10:45	0/0	
11-Sep-2025	N	E	15:30	0/0	Wind: 20 km/h
11-Sep-2025	N	S	15:32	0/0	
11-Sep-2025	N	W	15:34	0/0	
11-Sep-2025	N	N	15:36	0/0	
12-Sep-2025	N	E	7:30	0/0	Wind: 20 km/h
12-Sep-2025	N	S	7:32	0/0	
12-Sep-2025	N	W	7:34	0/0	
12-Sep-2025	N	N	7:36	0/0	
12-Sep-2025	calm	E	17:10	0/0	
12-Sep-2025	calm	S	17:12	0/0	
12-Sep-2025	calm	W	17:14	0/0	
12-Sep-2025	calm	N	17:16	0/0	
13-Sep-2025	calm	E	9:00	0/0	
13-Sep-2025	calm	S	9:02	0/0	
13-Sep-2025	calm	W	9:04	0/0	
13-Sep-2025	calm	N	9:06	0/0	
13-Sep-2025	calm	E	16:30	0/0	
13-Sep-2025	calm	S	16:32	0/0	

Table G2
Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
13-Sep-2025	calm	W	16:34	0/0	
13-Sep-2025	n/a	N	16:46	0/0	
14-Sep-2025	n/a	E	8:00	0/0	
14-Sep-2025	n/a	S	8:02	0/0	
14-Sep-2025	n/a	W	8:04	0/0	
14-Sep-2025	n/a	N	8:06	0/0	
14-Sep-2025	n/a	E	14:30	0/0	
14-Sep-2025	n/a	S	14:32	0/0	
14-Sep-2025	n/a	W	14:34	0/0	
14-Sep-2025	n/a	N	14:36	0/0	
15-Sep-2025	n/a	E	8:00	0/0	
15-Sep-2025	n/a	S	8:02	0/0	
15-Sep-2025	n/a	W	8:04	0/0	
15-Sep-2025	n/a	N	8:06	0/0	
16-Sep-2025	n/a	E	8:00	0/0	
16-Sep-2025	n/a	S	8:02	0/0	
16-Sep-2025	n/a	W	8:04	0/0	
16-Sep-2025	n/a	N	8:06	0/0	
16-Sep-2025	n/a	E	14:30	0/0	
16-Sep-2025	n/a	S	14:32	0/0	
16-Sep-2025	n/a	W	14:34	0/0	
16-Sep-2025	n/a	N	14:36	0/0	
17-Sep-2025	n/a	E	8:00	0/0	
17-Sep-2025	n/a	S	8:02	0/0	
17-Sep-2025	n/a	W	8:04	0/0	
17-Sep-2025	n/a	N	8:06	0/0	
17-Sep-2025	n/a	E	14:30	0/0	
17-Sep-2025	n/a	S	14:32	0/0	
17-Sep-2025	n/a	W	14:34	0/0	
17-Sep-2025	n/a	N	14:36	0/0	
18-Sep-2025	n/a	E	8:00	0/0	
18-Sep-2025	n/a	S	8:02	0/0	
18-Sep-2025	n/a	W	8:04	0/0	
18-Sep-2025	n/a	N	8:06	0/0	
18-Sep-2025	n/a	E	14:30	0/0	
18-Sep-2025	n/a	S	14:32	0/0	
18-Sep-2025	n/a	W	14:34	0/0	
18-Sep-2025	n/a	N	14:36	0/0	
20-Sep-2025	n/a	E	14:30	0/0	
20-Sep-2025	n/a	S	14:32	0/0	
20-Sep-2025	n/a	W	14:34	0/0	
20-Sep-2025	n/a	N	14:36	0/0	
21-Sep-2025	n/a	E	8:00	0/0	
21-Sep-2025	n/a	S	8:02	0/0	
21-Sep-2025	n/a	W	8:04	0/0	
21-Sep-2025	n/a	N	8:06	0/0	
21-Sep-2025	n/a	E	14:30	0/0	
21-Sep-2025	n/a	S	14:32	0/0	

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Perimeter Air Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Date	Wind Direction	Location	Time	Reading (HEX-ppm/IBL-ppb)	Notes
21-Sep-2025	n/a	W	14:34	0/0	
21-Sep-2025	n/a	N	14:36	0/0	
22-Sep-2025	n/a	E	8:00	0/0	
22-Sep-2025	n/a	S	8:02	0/0	
23-Sep-2025	n/a	W	8:04	0/0	
24-Sep-2025	n/a	N	8:06	0/0	
25-Sep-2025	n/a	E	14:30	0/0	
26-Sep-2025	n/a	S	14:32	0/0	
22-Sep-2025	n/a	W	14:34	0/0	
22-Sep-2025	n/a	N	14:36	0/0	
23-Sep-2025	n/a	E	14:30	0/0	
23-Sep-2025	n/a	S	14:32	0/0	
23-Sep-2025	n/a	W	14:34	0/0	
23-Sep-2025	n/a	N	14:36	0/0	

Notes:
HEX - hexane
IBL - isobutylene
km/h - kilometres per hour
n/a - not applicable
ppb - parts per billion
ppm - parts per million

Table G3
Wildlife Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Week	Description
12-Jan-25	A fox (unknown species) was observed walking along the edge of the site. The fox carried on and left the area.
15-Jan-25	Observed a red fox (*Vulpes vulpes*) walking by the river. No work interruption occurred as the fox moved away from the Site, and the wildlife monitors gave the all-clear signal.
23-Jan-25	Observed two foxes (unknown species) walking on the ice road, away from the barge. The wildlife monitors were informed immediately via radio and proceeded to a safe area to confirm sighting and gave an all-clear signal after confirming that the fox walked away from the project site.
10-Feb-25	A fox (unknown species) was observed passing around the edge of Site. The fox was monitored until it moved on and left the Site.
12-Feb-25	Observed a red fox on the southern side of the Wurmlinger barge. Wildlife monitors were notified immediately and monitored the fox. There was no interruption to work, and the wildlife monitors provided an all-clear after the fox moved away from the Site.
18-Feb-25	Wildlife monitors observed a weasel (unknown species) by access ramp on Site. No work interruptions sustained.
13-Mar-25	Observed a red fox on the ice road heading towards the Site. No work interruption sustained. Wildlife monitors monitored the fox until it moved away from the Site.
24-Mar-25	Wildlife monitor reported a red fox sighting. No work interruption sustained as the fox walked away from the Site.
15-Apr-25	A fox was sighted on northwest side of the barge and making its way towards barge on the river. Wildlife monitor was notified and he observed the fox movement to deter it if it moved closer to the barge. No work interruption occurred.
18-Apr-25	Lynx (*Lynx canadensis*) wasobserved on the ice road, no work interruption occurred.
19-Apr-25	Observed a red fox on the ice road at approximately 3:00 PM, no work interruption occurred.
20-Apr-25	Observed a fox on the ice road at approximately 8:30 AM, no work interruption occurred.
14-May-25	Observed three bald eagles (*Haliaeetus leucocephalus*).
15-May-25	Observed a flock of geese (unknown species).
17-May-25	Observed a flock of geese and one bald eagle.
18-May-25	Observed a flock of geese.
22-May-25	Observed a flock of geese and four seagulls (unknown species).
23-May-25	Observed a flock of geese in open water upriver by the riverbank. Observed sparrows (unknown species), two robins (*Turdus migratorius*) and four seagulls (unknown species).
28-May-25	Observed two geese by the shoreline.
29-May-25	Observed a flock of geese.
30-May-25	Observed goose, moose (*Alces alces*).
31-May-25	Observed a flock of geese.
01-Jun-25	Observed a flock of geese.
02-Jun-25	Observedgeese and sparrows (unknown species).
04-Jun-25	Observed geese, sparrows, ducks and four hares/rabbits (unknown species).
05-Jun-25	Observed geese, sparrows, ducks, two hares/rabbits, fox and Arctic terns (*Sterna paradisaea*).
06-Jun-25	Observed geese and sparrows.
07-Jun-25	Observed geese, sparrows and Arctic Terns.
20-Jun-25	Numerous Arctic terns nesting on the shoreline. Plovers (unknown species) and nest found in the excavation area. Personnel delineated the nests and added seback buffer and privacy blind to avoid disturbance. Numerous moose and grizzly bear (*Ursus arctos*) tracks.
24-Jun-25	Observed recent grizzly tracks on site.
26-Jun-25	While walking around equipment wildlife monitor noticed a robins nest with eggs and a hatchling. Personnel delineated the nests and added seback buffer to avoid disturbance and notified all the workers of the location of the birds.
30-Jun-25	Two fish were found to have become stranded in the ponded water in the excavation area. The river flooded this portion of the Site during freshet and has since retreated. A plan was made to move the fish from the ponded water to the river as soon as possible.
01-Jul-25	Plover pair tending nest behind privacy blind. Duck tending nest, six eggs behind a privacy blind, within the treeline. Arctic terns on the beach, no disturbance. Lynx tracks noticed on site possibly several days old. Northern pike / jackfish (*Esox lucius*) in excavation A ponded water to be netted and released to the river. Three northern pike were successfully rescued, however a fourth was later found deceased and subsequently reported to Fisheries and Oceans Canada (as requested in their Letter of Advice issued for the Project).
02-Jul-25	Rabbit observed by the treeline. The rabbit was observed until it left Site into the bush.
03-Jul-25	Continue to monitor nesting birds near the project site behind privacy blind and setback buffer.

Table G3
Wildlife Monitoring
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Week	Description
04-Jul-25	Continue to monitor nesting birds near the project site.
05-Jul-25	Continue to monitor nesting birds near the project site. Privacy blinds were reinforced due to windy conditions.
06-Jul-25	Plover has one live hatchling, three more eggs noticed, two adults tending nest. Arctic terns - additional nests being started closer to excavation away from beach area. Duck - has nine eggs in nest. Robin - hatchling gone from nest overnight or very early in am. Adult robins were seen the previous day taking food to nest. Area around loader searched twice and no hatchling found. Jackfish in ponded water in Excavation A - water level was lowered using pump with fish screen. A sweep net was utilized to capture three juvenile jackfish and they were released into the river.
08-Jul-25	Mother and fledged robin had not been seen near the nest in the 924 loader for a few days. A game camera was set up on 7 July 2025 to ensure the mother and fledgeling had left the nest. Neither were seen on the game camera. The 924 loader was also thoroughly checked by the mechanic. The empty nest was transferred to the brush outside the site footprint and the loader resumed operations.
11-Jul-25	Several Arctic tern chicks have hatched. Some are running around their nesting area and some are still in the nest being brooded. Continue monitoring the nesting area with binoculars from a safe distance as not to disturb and/or agitate the birds.
17-Jul-25	Numerous Arctic tern hatchlings seen on surrounding shorelines. Plover hatchlings seen with parents away from nest.
19-Jul-25	Observed four herring (*Clupea harengu*s) in the water pond at Excavation-A. Workers caught the fish with a net and transferred them to the river safely.
20-Jul-25	Multiple Arctic terns on the end of the fuel barge deck.
24-Jul-25	Observed two jackfish at the excavation. The jackfish were safely caught and transferred to the river.
13-Aug-25	At approximately 6:30 AM, a grizzly bear accompanied by three cubs was observed on site. Work was temporarily suspended until the animals moved away and the all clear to resume work was given. Wildlife monitors consistently inspected the area for any additional wildlife activity. The animals were not seen again.
07-Sep-25	Older tracks from a small young bear were observed on the beach.
11-Sep-25	A moose was seen across the river at approximately 12:30 PM. Site activities were not interrupted. Wildlife monitor consistently observed the wildlife activity.
12-Sep-25	At approximately 8:00 AM, the same moose observed on the previous day was sighted again at the same off-site location. Site activities proceeded without interruption. The wildlife monitor continued to observe throughout the day for any additional wildlife that might be following the moose.
13-Sep-25	At approximately 9:00 AM, the moose observed on the previous days was sighted again across the river. Site activities proceeded without interruption. The wildlife monitor continued to observe throughout the day for any additional wildlife that might be following the moose.
03-Oct-25	Fresh fox tracks in numerous areas on site.

APPENDIX H

Spills

Table H1
Spills
West Channel, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Week	Description
25-Jan-26	A small leak of diesel was observed coming from one of the burner generators. A drip tray was immediately placed under the area and the generator shut off. The fitting was repaired and spill cleaned up, with a total of approximately 200 mL of diesel.
21-Feb-25	While the sewage haul truck was parked next to the barge being loaded with sewage, approximately 2 L of coolant dripped onto the ice. The spill was not noticed at 7:00 PM when a worker passed by. Initial containment and cleanup of the spill occurred, with an additional confirmatory cleanup check completed in the daylight on 22 February 2025.
27-Feb-25	While the mechanic was working on a piece of machinery, he noticed a leak coming from the service truck. He immediately called it in on the radio and placed absorbent pads to soak up the leak. The total volume was less than 2 L of hydraulic oil. After the leak was repaired, the soil in the area which came into contact with the hydraulic oil was excavated and placed in an ETC cell for treatment.
02-Mar-25	While transporting contaminated material, one of the loaders developed a hydraulic oil leak. The leak was quickly identified, the operator notified the supervisor, he then shut off the machine and a spill tray was placed under the leak. A total of less than 1 L of hydraulic oil was lost. The oil which dripped onto the ground was soaked up with spill pads, and the soil it came into contact with was excavated and placed in an ETC cell for treatment.
03-Mar-25	While offloading sewage from the Wurmlinger sewage containment tank to a vacuum truck, the truck overflowed 10 L of wastewater onto the ice road. The truck valve was closed to stop the overflow and the spilled sewage was cleaned up and disposed of. Due to the contents of the spills, the spill was reported to the NWT / NU 24-Hour Spill Report Line and a spill report was submitted.
08-Mar-25	A leak from a worn out O-ring connection on a loader was discovered, resulting in a release of under 0.5 L of hydraulic oil. A spill tray was immediately put in place. The release was immediately cleaned up, contaminated ice and soil scraped up and placed into a bucket, then added to an ETC cell for treatment. The loader fitting was tightened to prevent further leaks.
11-Mar-25	Observed an approximately 0.25 L of suspected coolant leak under the CAT IT18 Loader that was parked and being fixed by the mechanic. EGT supervisor was immediately notified, spill tray was placed and the spill cleaned up.
12-Mar-25	Worker observed a small release of liquid on the ground under the excavator after morning break. Worker immediately cleaned up the released fluid and was reminded to put a spill tray under the excavator when it is parked in the future.
22-Mar-25	While offloading wastewater from the Wurmlinger barge camp to a vac truck, the camlock fitting failed resulting in approximately 20 L of wastewater spilling onto the ice. Initial investigations showed that the movement of the hose on the ice caused the fitting to loosen and ultimately fail. Both the operator at the tank and the operator at the truck immediately shut the valve and stopped the flow. The scene was assessed and the clean up commenced by chipping away the contaminated ice for appropriate disposal. While this occurred the site supervisor reported the spill to the NWT / NU 24-Hour Spill Report Line. Going forward the camlock clips will have a secondary securement to ensure that it can not undo itself.
31-Mar-25	During a site walk around, oil blow by was noticed at the 60 kW generator. A spill tray was in place but had been moved, allowing some oil (less than 0.5 L) onto the ground. The release was immediately cleaned up, oily waste removed from the ground and the machine and disposed of. New absorbent pads were placed and secured at the generator.
16-Jul-25	Walking along the fuel line in dry conditions it was noticed that moisture was present on the hose in one location. Upon inspection of the fuel line going to the TecZero, slight moisture from weeping was noticed on the hose. About 20 mL of diesel was released onto the ground. Crew shut down the line, put a spill tray in place and wrapped the hose with absorbent pads. Once the line was drained off it was disconnected and replaced. Contaminated soil was cleaned up and put in an ETC cell for treatment.
19-Jul-25	Approximately 1 L of waste waster was splashed onto the spacer barge deck during routine work. All fluids were contained to deck surface and cleaned up for disposal.
25-Jul-25	During the fuel truck refueling process, a bungee cord that was used to secure the hose into the tank came loose. The hose fell off the truck and released diesel both within the containment and onto the spacer barge where approximately 10 L of diesel spilled between the fuel barge and spacer barge into the water. The pump operator immediately shut the pump off. The crew then immediately deployed the containment booms and absorbent pads to soak up the spilled diesel. After approximately 1 hour, the absorbent pads had soaked up the diesel and the sheen was no longer visible. Site supervisor reported the spill to the NWT / NU 24-Hour Spill Report Line. Additional cleanup completed included scrubbing the barge with soapy water and buckets, removing contaminated sand from the beach, placing absorbent pads at either end of the space between the two barges and regular monitoring for any signs of diesel sheen in the water.
10-Aug-25	Some drops of diesel, approximately 20 mL, were found on the ground at a location that a loader had been parked. The area was cleaned up with a shovel and placed into an ETC cell to be treated.
20-Aug-25	During the sewage transfer process, the sewage tank on the spacer barge overflowed and spilled approximately 20 L of sewage onto the spacer barge. The pump operator immediately shutoff the pump to limit the spill. Spill containment materials were deployed immediately however approximately 10 L of sewage entered the river. The crew then immediately deployed the containment booms and absorbent pads to soak up the spilled wastewater. After approximately 5 hours, the absorbent pads had soaked up the wastewater and it was no longer visible in the water. Spill was reported to the NWT / NU 24-Hour Spill Report Line. Transport Canada and Fisheries and Oceans Canada contacted WSP as a follow up on the Spill Report The additional cleanup completed included scrubbing the barge with soapy water and buckets, placing absorbent pads at either end of the space between the two barges and regular monitoring for any signs in the water.
05-Sep-25	A small sheen was observed on a small amount of mud near the site trailers. No equipment was observed nearby the sheen. The sheen was cleaned with an absorbent pad by removing the affected mud. The absorbent pad was then disposed in the correct container.

Notes:
kW - kilowatt
L - litre
mL - millilitres
NU - Nunavut
NWT - Northwest Territories

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