YEAR BEING REPORTED: 2023

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water Licence No. 3BM-HAL2025 issued to the Municipality of Sanirajak.

I – III. Tabular summaries of all data generated under the "Monitoring Program"; monthly and annual quantities in cubic metres of freshwater obtained from all sources; monthly and annual quantities in cubic metres of each and all wastes discharged;

Attached are the quantities of water used and the estimated discharge of waste. The water consumption volume is considered equal to the sewage discharge volume because there is no meter at the end of the discharge pipe.

Month Reported	Quantity of Water Obtained from all sources (m³)	Quantity of Sewage Waste Discharged (m ³)	Quantity of Hazardous Waste Accepted (m³)	Quantity of Non-Hazardous Waste Accepted – Uncompacted (m³)
January	3,051.25	Same	0.98	887.73
February	2,596.25	Same	0.98	887.73
March	3,386.41	Same	0.98	887.73
April	3,391.08	Same	0.98	887.73
May	3,418.99	Same	0.98	887.73
June	3,427.51	Same	0.98	887.73
July	3,418.03	Same	0.98	887.73
August	3,527.70	Same	0.98	887.73
September	3,416.84	Same	0.98	887.73
October	3,483.21	Same	0.98	887.73
November	3,407.62	Same	0.98	887.73
December	3,422.86	Same	0.98	887.73
ANNUAL TOTAL	39,947.74	Same	11.78	10,652.74

IV. A summary of modifications and/or major maintenance work carried out on the Water Supply and Waste Disposal Facilities, including all associated structures and facilities:

No modifications or major maintenance work carried out in 2023.

V. A list of unauthorized discharges and summary of follow-up action taken:

No spills to report in 2023.

VI. A summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year:

There was no abandonment and restoration work completed during 2023. There is no abandonment and restoration work anticipated for 2024.

VII. A summary of any studies requested by the Board that relate to waste disposal, water use or reclamation, and a brief description of any future studies planned:

Wastewater

Contractor and consultant were on site during summer 2021 to determine the issue of the leaking lagoon, which is a deficient issue from construction. Data analysis and a report is ongoing.

Solid Waste

The initial planning study for a new solid waste facility was completed in 2020/21. The cost estimates have indicated that the current funding cannot support the construction of a new state-of-the-art 20-year landfill. The focus of the project has shifted to making improvements to the current site. A second planning contract to assess and prioritize the improvements to the current site is expected to be completed in 2025.

VIII. Any other details on water use or waste disposal requested by the Board by November 1st of the year being reported; and

No other details on water use or waste disposal requested by the Board by November 1st of 2023.

IX. Updates or revisions to the approved Operation and Maintenance Plans:

None.

X. ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

- No sludge was removed from the Wastewater Treatment Facility
- No modifications to the Monitoring Program, however, only one round of sampling was completed in 2023. See **Appendix B**.

XI. FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

A CIRNAC Inspection took place on August 1, 2023. The Inspection Report is attached to **Appendix C**.

The municipality has completed the following actions to comply with the Inspector's Report:

- Hazardous wastes were re-sorted and placed into the hazardous waste area of the facility
- Bulky metals were re-sorted and placed into the bulky metals area of the facility
- The municipality has engaged with the Government of Nunavut Department of Community and Government Services to ensure that new signage to ensure proper sorting of wastes is included in the solid waste facility upgrade project

The municipality aims to complete the following actions to comply with the Inspector's Report:

- Test the stream downhill from the Hazardous Waste Berm for hydrocarbons
- Report and clean up the oil spill as well as any future spills at Licensed Facilities

An updated Compliance Plan will be submitted with the 2025 Application for Water Licence Amendment and Renewal.

APPENDICES:

Appendix A: Summary and Interpretation of Monitoring Data

Appendix B: Certificate of Analyses

Appendix C: 2023 CIRNAC Inspection Report

Appendix A

Tabular Summary of Monitoring Data

Parameter	Maximum Concentratio n of any Grab Sample for HAL-4	Units	Sep. 14, 2023 HAL-4	Sep. 14, 2023 HAL-5	Sep. 14, 2023 HAL-4	Sep. 14 2023 HAL-5
BOD ₅	120	mg/L	<3	<3	<3	<3
Total Suspended Solids	180	mg/L	23	24	<3	21
		CFU/				
Fecal Coliform	$1x10^{6}$	100 mL	0	<2	8	<2
	No visible					1.8
Oil and Grease	sheen	N/A	2.1 mg/L	5.9 mg/L	2.6 mg/L	mg/L
	Between 6					
pН	and 9	N/A	7.83	7.90	8.27	7.92

Based on the results, compliance with the effluent quality limits at HAL-4 was achieved. However, the sampling locations may not have been representative of the intended effluent, and the locations will be reviewed.

Appendix B

CERTIFICATE OF ANALYSIS



Final Report

C.O.C.: G 107437 REPORT No: 23-024915 - Rev. 0

Report To:

Hamlet of Sanirajak (Municipality of Hall Beach)

P.O. Box 198

Sanirajak, NU K0A 0K0

CADUCEON Environmental Laboratories

2378 Holly Lane

Ottawa, ON K1V 7P1

Attention: Jeela Apak

DATE RECEIVED: 2023-Sep-18 CUSTOMER PROJECT:

DATE REPORTED: 2023-Sep-27 P.O. NUMBER:

SAMPLE MATRIX: Waste Water

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Anions (Liquid)	2	OTTAWA	PCURIEL	2023-Sep-19	A-IC-01	SM 4110B
BOD5 (Liquid)	2	KINGSTON	JYEARWOOD	2023-Sep-25	BOD-001	SM 5210B
Cond/pH/Alk Auto (Liquid)	2	OTTAWA	SBOUDREAU	2023-Sep-18	COND-02/PH-02/A	SM 2510B/4500H/
					LK-02	2320B
Fecal Coliforms (Liquid)	2	OTTAWA	HALIPDA	2023-Sep-18	FC-001	SM 9222D
ICP/MS Total (Liquid)	2	OTTAWA	AOZKAYMAK	2023-Sep-19	D-ICPMS-01	EPA 6020
ICP/OES Total (Liquid)	2	OTTAWA	NHOGAN	2023-Sep-19	D-ICP-01	SM 3120B
Mercury (Liquid)	2	OTTAWA	TBENNETT	2023-Sep-19	D-HG-02	SM 3112B
Ammonia & o-Phosphate (Liquid)	2	KINGSTON	AMANIYA	2023-Sep-22	NH3-001	SM 4500NH3
Oil & Grease (Liquid)	2	KINGSTON	MLANE	2023-Sep-22	O&G-001	SM 5520
Phenols (Liquid)	2	KINGSTON	JMACINNES	2023-Sep-26	PHEN-01	MECP E3179
Total Organic Carbon (TOC)	2	OTTAWA	VKASYAN	2023-Sep-19	C-OC-01	EPA 415.2
TSS (Liquid)	2	KINGSTON	KKHUTSYYEVA	2023-Sep-21	TSS-001	SM 2540D

R.L. = Reporting Limit

NC = Not Calculated

Test methods may be modified from specified reference method unless indicated by an *

REPORT No: 23-024915 - Rev. 0

		ent I.D. ple I.D.	HAL-4 Waste Water 23-024915-1	HAL-5 Waste Water 23-024915-2
	Date Co		2023-09-14	2023-09-14
Parameter	Units	R.L.	-	-
Fecal Coliform	CFU/100mL	1	0	<2
Alkalinity(CaCO3) to pH4.5	mg/L	5	160	163
рН @25°C	pH units	-	7.82	7.90
Conductivity @25°C	uS/cm	1	27400	27500
Chloride	mg/L	0.5	9520	9910
Nitrate (N)	mg/L	0.05	<1.00	<1.00
Nitrite (N)	mg/L	0.05	<1.00	<1.00
Sulphate	mg/L	1	1410	1450
BOD5	mg/L	3	<3	<3
Total Suspended Solids	mg/L	3	23	24
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05	0.07	<0.05
Total Organic Carbon	mg/L	0.2	<0.2	<0.2
Phenolics	mg/L	0.001	<0.001	<0.001
Hardness (as CaCO3)	mg/L	-	3000	3000
Aluminum (Total)	mg/L	0.01	0.13	0.11
Cadmium (Total)	mg/L	0.005	<0.005	<0.005
Calcium (Total)	mg/L	0.02	237	229
Chromium (Total)	mg/L	0.002	<0.002	<0.002
Cobalt (Total)	mg/L	0.005	<0.005	<0.005
Copper (Total)	mg/L	0.002	<0.002	<0.002
Iron (Total)	mg/L	0.005	0.184	0.175

REPORT No: 23-024915 - Rev. 0

	Client I.D.		HAL-4 Waste Water	HAL-5 Waste Water
	Sam	ple I.D.	23-024915-1	23-024915-2
	Date Co		2023-09-14	2023-09-14
Parameter	Units	R.L.	-	-
Lead (Total)	mg/L	0.02	<0.02	<0.02
Magnesium (Total)	mg/L	0.02	588	573
Manganese (Total)	mg/L	0.001	0.005	0.004
Nickel (Total)	mg/L	0.01	<0.01	<0.01
Potassium (Total)	mg/L	0.1	218	210
Sodium (Total)	mg/L	0.2	5950	5630
Zinc (Total)	mg/L	0.005	0.014	0.010
Arsenic (Total)	mg/L	0.0005	0.0020	0.0019
Mercury	mg/L	0.00002	<0.00002	<0.00002
	Cli	ent I.D.	HAL-4 Waste Water	HAL-5 Waste Water
Sample I.D.		23-024915-1	23-024915-2	
	Date Co	llected	2023-09-14	2023-09-14
Parameter	Units	R.L.	-	-
Oil & Grease (Total)	mg/L	1.0	2.1	5.9

Bacteria passed holding time.
Elevated RLs due to sample matrix interferences

CERTIFICATE OF ANALYSIS



Final Report

C.O.C.: G 107353 REPORT No: 23-024953 - Rev. 0

Report To:

Hamlet of Sanirajak (Municipality of Hall Beach)

P.O. Box 198

Sanirajak, NU K0A 0K0

CADUCEON Environmental Laboratories

2378 Holly Lane

Ottawa, ON K1V 7P1

Attention: Jeela Apak

DATE RECEIVED: 2023-Sep-18 CUSTOMER PROJECT:

DATE REPORTED: 2023-Oct-04 P.O. NUMBER:

SAMPLE MATRIX: Waste Water

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Anions (Liquid)	2	OTTAWA	PCURIEL	2023-Sep-19	A-IC-01	SM 4110B
BOD5 (Liquid)	2	KINGSTON	JWOLFE	2023-Sep-21	BOD-001	SM 5210B
Cond/pH/Alk Auto (Liquid)	2	OTTAWA	SBOUDREAU	2023-Sep-19	COND-02/PH-02/A	SM 2510B/4500H/
					LK-02	2320B
Fecal Coliforms (Liquid)	2	OTTAWA	HALIPDA	2023-Sep-18	FC-001	SM 9222D
ICP/MS Total (Liquid)	2	OTTAWA	AOZKAYMAK	2023-Sep-19	D-ICPMS-01	EPA 6020
ICP/OES Total (Liquid)	2	OTTAWA	NHOGAN	2023-Sep-19	D-ICP-01	SM 3120B
Mercury (Liquid)	2	OTTAWA	TBENNETT	2023-Sep-19	D-HG-02	SM 3112B
Ammonia & o-Phosphate (Liquid)	2	KINGSTON	AMANIYA	2023-Sep-22	NH3-001	SM 4500NH3
Oil & Grease (Liquid)	2	KINGSTON	MLANE	2023-Sep-22	O&G-001	SM 5520
PHC F1 (Liquid)	2	RICHMOND_HILL	FLENA	2023-Sep-23	C-VPHW-01	MECP E3421
PHC F2-4 (Liquid)	2	KINGSTON	STHOMPSON	2023-Sep-22	PHC-W-001	MECP E3421
Phenols (Liquid)	2	KINGSTON	JMACINNES	2023-Sep-26	PHEN-01	MECP E3179
SVOC - Semi-Volatiles (Liquid)	2	KINGSTON	PRANA	2023-Sep-22	NAB-W-001	EPA 8270D
Total Organic Carbon (TOC)	2	OTTAWA	VKASYAN	2023-Sep-19	C-OC-01	EPA 415.2
TP & TKN (Liquid)	2	KINGSTON	KDIBBITS	2023-Sep-29	TPTKN-001	MECP E3516.2
TSS (Liquid)	2	KINGSTON	KKHUTSYYEVA	2023-Sep-21	TSS-001	SM 2540D
VOC-Volatiles Full (Water)	2	RICHMOND_HILL	FLENA	2023-Sep-23	C-VOC-02	EPA 8260

 $\mu g/g$ = micrograms per gram (parts per million) and is equal to mg/Kg

F1 C6-C10 hydrocarbons in $\mu g/g$, (F1-btex if requested)

F2 C10-C16 hydrocarbons in μ g/g, (F2-napth if requested)

F3 C16-C34 hydrocarbons in µg/g, (F3-pah if requested)

F4 C34-C50 hydrocarbons in $\mu g/g$

This method complies with the Reference Method for the CWS PHC and is

validated for use in the laboratory.

Any deviations from the method are noted and reported for any particular sample.

nC6 and nC10 response factor is within 30% of response factor for toluene:

nC10,nC16 and nC34 response factors within 10% of each other:

C50 response factors within 70% of nC10+nC16+nC34 average:

Linearity is within 15%:

All results expressed on a dry weight basis.

Unless otherwise noted all chromatograms returned to baseline by the retention

time of nC50.

R.L. = Reporting Limit

NC = Not Calculated

Test methods may be modified from specified reference method unless indicated by an $\,^{\star}$

Unless otherwise noted all extraction, analysis, QC requirements and limits for holding time were met. If analyzed for F4 and F4G they are not to be summed but the greater of the two numbers are to be used in application to the CWS PHC

QC will be made available upon request.

REPORT No: 23-024953 - Rev. 0

		ent I.D.	HAL-4 Leachate	Hal-5 Leachate
	Sam _l Date Co	ple I.D. Ilected	23-024953-1 2023-09-14	23-024953-2 2023-09-14
Parameter	Units	R.L.	-	-
Fecal Coliform	CFU/100mL	1	8	<2
Alkalinity(CaCO3) to pH4.5	mg/L	5	171	162
рН @25°C	pH units	-	8.27	7.92
Conductivity @25°C	uS/cm	1	619	27500
Chloride	mg/L	0.5	72.0	9840
Nitrate (N)	mg/L	0.05	0.83	<4.00
Nitrite (N)	mg/L	0.05	<0.05	<4.00
Sulphate	mg/L	1	45	1360
BOD5	mg/L	3	<3	<3
Total Suspended Solids	mg/L	3	<3	21
Phosphorus (Total)	mg/L	0.01	0.33	0.08
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05	1.32	0.06
Total Organic Carbon	mg/L	0.2	<0.2	<0.2
Phenolics	mg/L	0.001	<0.001	<0.001
Hardness (as CaCO3)	mg/L	-	214	2930
Aluminum (Total)	mg/L	0.01	0.04	0.12
Cadmium (Total)	mg/L	0.005	<0.005	<0.005
Calcium (Total)	mg/L	0.02	64.4	228
Chromium (Total)	mg/L	0.002	<0.002	<0.002
Cobalt (Total)	mg/L	0.005	<0.005	<0.005
Copper (Total)	mg/L	0.002	<0.002	<0.002

REPORT No: 23-024953 - Rev. 0

	-	ient I.D.	HAL-4 Leachate 23-024953-1	Hal-5 Leachate 23-024953-2
	Date Co		2023-09-14	2023-09-14
Parameter	Units	R.L.	-	-
Iron (Total)	mg/L	0.005	0.160	0.168
Lead (Total)	mg/L	0.02	<0.02	<0.02
Manganese (Total)	mg/L	0.001	0.011	0.004
Nickel (Total)	mg/L	0.01	<0.01	<0.01
Potassium (Total)	mg/L	0.1	5.7	212
Zinc (Total)	mg/L	0.005	<0.005	0.011
Arsenic (Total)	mg/L	0.0001	0.0011	0.0020
Mercury	mg/L	0.00002	<0.00002	<0.00002

REPORT No: 23-024953 - Rev. 0

	Client I.D. Sample I.D. Date Collected		HAL-4 Leachate 23-024953-1 2023-09-14	Hal-5 Leachate 23-024953-2 2023-09-14
Parameter	Units	R.L.	-	-
Benzene	μg/L	0.5	<0.5	<0.5
Ethylbenzene	μg/L	0.5	<0.5	<0.5
Toluene	μg/L	0.5	<0.5	<0.5
Xylene, m,p-	μg/L	1	<1	<1
Xylene, m,p,o-	μg/L	1.1	<1.1	<1.1
Xylene, o-	μg/L	0.5	<0.5	<0.5
PHC F1 (C6-C10)	μg/L	25	<25	<25
PHC F2 (>C10-C16)	μg/L	50	<50	<50
PHC F3 (>C16-C34)	μg/L	400	<400	<400
PHC F4 (>C34-C50)	μg/L	400	<400	<400
Oil & Grease (Total)	mg/L	1.0	2.6	1.8

	CI	ient I.D.	HAL-4 Leachate	Hal-5 Leachate
		ple I.D.	23-024953-1	23-024953-2
Parameter	Date Co Units	ollected R.L.	2023-09-14	2023-09-14
Acenaphthene	μg/L	0.05	<0.05	<0.05
Acenaphthylene	μg/L	0.05	<0.05	<0.05
Anthracene	μg/L	0.05	<0.05	<0.05
Benzo[a]anthracene	μg/L	0.05	<0.05	<0.06
Benzo(a)pyrene	μg/L	0.01	<0.01	<0.01
Benzo(b)fluoranthene	μg/L	0.05	<0.05	<0.05
Benzo(b+k)fluoranthene	μg/L	0.1	<0.1	<0.1
Benzo(g,h,i)perylene	μg/L	0.05	<0.05	<0.05
Benzo(k)fluoranthene	μg/L	0.05	<0.05	<0.05
Chrysene	μg/L	0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	μg/L	0.05	<0.05	<0.05
Fluoranthene	μg/L	0.05	<0.05	<0.05
Fluorene	μg/L	0.05	<0.05	<0.05
Indeno(1,2,3,-cd)Pyrene	μg/L	0.05	<0.05	<0.05
Methylnaphthalene,1-	μg/L	0.05	<0.05	<0.05
Methylnaphthalene,2-(1-)	μg/L	1	<1	<1
Methylnaphthalene,2-	μg/L	0.05	<0.05	<0.05
Naphthalene	μg/L	0.05	<0.05	<0.06
Phenanthrene	μg/L	0.05	<0.05	<0.05
Pyrene	μg/L	0.05	<0.05	<0.05
Total PAH	μg/L	0.1	<0.1	<0.1

Bacteria analyzed past holding time

Appendix C





Water Licence Inspection Report

⊠Original	
☐Follow-Up I	Report

Authorization			Representative	2			
3BM-HAL202	25		Louis Prim	meau			
Authorization No. / Ex	cpiry		Representative's				
202, June 20			Chief Adm	ninistrative Offi	icer		
Other Authorization/s							
Activities Inspected							
☐ Camp, Comme	rcial 🗆 Drilling 🗆	Mining ☐ Construction ☐	Reclamation	☐ Fuel Storage ☐ Ro	ads/Hauling 🗆 Winter Hauling		
☐ Camp, Private	☑ Other ,Potable	Water source, Solid Waste	e facility, hazar	dous waste facility, D	omestic waste/sewage		
Conditions:	A- Acceptable	U-Unacceptable C-	Concern N	I-Not Inspected	NA- Not applicable		
PART:				Condition	Observation No.*		
A: SCOPE, DEFINIT	TONS AND ENFORC	CEMENT		А			
B: GENERAL COND	DITIONS			А	1		
C: CONDITIONS AF	PPLYING TO SECURI	ITY		NI			
D: CONDITIONS A	PPLYING TO WATE	R USE		А	27-30		
E: CONDITIONS A	PPLYING TO WASTE	E DISPOSAL AND MANAGE	MENT	С	2-26		
F: CONDITIONS AF	PLYING TO MODIF	ICATIONS		NI			
G: CONDITIONS A	PPLYING TO CONST	TRUCTION		NI			
H: CONDITIONS A	PPLYING TO EMER	GENCY RESPONSE AND CO	NTINGENCY	С			
PLANNING							
I: CONDITIONS AF	PPLYING TO ABAND	ONMENT, RECLAMATION	AND	NA			
CLOSURE PLANNIN							
J: CONDITIONS APPLYING TO MONITORING				A			
SCHEDULES				А			
	*The licence and th	he observation number cor	responds with s	pecific comments pro	vided below.		
Samples taken by	Inspector:	Location(s): Latitud	le: N 68.79075	7°, W81.236942°			
🗌 Yes 🔀 No							

Section 1 Comments

Background

On April 23, 2020, The Nunavut Water Board(NWB) issued 3BM-HAL2025. The Type "B" water license authorizes the use of 40,000m³ per annum or maximum of 299m³ per day. Effective as of April 30, 2020, and expiry April 29, 2025.

The Hamlet of Hall Beach owns and operates several municipal facilities aimed at providing relevant services to the residents of the community including a potable Water Supply Facility (WSF), Solid Waste Disposal Facility (SWDF), and a Sewage Disposal Facility (SDF). The Hamlet shares the same Potable Water Source with the Department of National Defence – North Warning Sites.

Inspector Statement

On June 20th, 2023, I, Isaiah James Bolt, Inspector with the Crown Indigenous Relations and Northern Affairs Canada, (CIRNAC and for the purpose of this report hereafter referred to as the "Inspector") Along with fellow Inspector Joseph Monteith, who is also with CIRNAC, conducted a water license inspection to verify compliance with the water license 3BM-HAL2025 terms and conditions.



[2023-QIK-02-JB] Page 1 of 14

^{*}refers to specific terms and conditions found in the permit/lease in question.





General Condition

1. The Nunavut Water Board acknowledges receipt on March 31, 2023 of the 2022 Annual Report.

Bolt and Monteith Arrived at bulk metal facility at 3:31pm.

Bulk Metal Dump/Burn and Cap - 3:31PM

- 2. Propane tanks observed in the metal dump. (photo #1)
- 3. Batteries found in bulk metal pile, buckets of Resin & Paste as well as gear oil (Photo #2)
- 4. White waste is not being segregated
- 5. Oil spills/Leaks observed around the metal dump. (Photo #3)
- 6. Fire extinguishers observed in the metal dump
- 7. Damaged/fallen fencing around the Burn and Cap facility (Photo #4)
- 8. Old garbage burn pile not capped, and is in contact with a pool of water (photo #5)
- 9. Buckets of Aqualock 100% acrylic water based primer and other types of paint found in the burn pit (Photo #6)
- 10. Signs of oil spills in the burn and cap area (sheening)
- 11. A 4 stroke generator was observed in the burn and cap area
- 12. A freezer was found in the burn and cap area

Sewage Lagoon - 3:45PM

- 13. Cell 1 is very full (freeboard approx. 2M) Cell 2 looks ok.
- 14. No debris in or around both cells
- 15. Sewage truck discharge location was clean, no signs of spillage or leaking with good erosion control (Photo #7)
- 16. Decanting/effluent line area clean, no signs of erosion, large boulders in place as erosion control
- 17. Old sewage spillover (breakage of the lagoon wall) appears to contain sewage at time of inspection. (Photo #8)

Hazardous Waste Berm – 3:53PM

- 18. Loose debris in the Hazardous Waste Berms (wood and other garbage) (photo #9)
- 19. Many signs of leaks/spills inside the berm (photo #10)
- 20. Possible signs of outflowing water
- 21. Walls seem stable, and the 2021 berm wall gap noted by Joseph Monteith is fixed
- 22. Signs of underground water up welling from under hazardous waste berm (down hill side) (Photo #11)
- 23. Active Leak in Haz waste Berm (Photo#13) as well as signs of large oil staining. (Photo#12)
- 24. Standing water in the HWB. (photo #14)

2nd bulk metal facility - 4:03PM

- 25. 1 compressed oxygen tank found discarded in the facility. (Photo #15)
- 26. Signs of domestic garbage in the dump, Oil bottles, silicone, plastics (Photo #16)

Potable Water Facility/Pump House - 5:28PM

- 27. 5:28pm Bolt and Monteith Arrive at the Dam. The Dam structure is meant to manage water flow into South Lake to maintain the water level. (photo #17) The new water storage reservoir is elevated from the surrounding waters, it is a lined berm, and holding water. The Storage Reservoir can hold 60,00m³. Water used to be taken from South Lake but now is taken from the reservoir. The Reservoir is recharged with water pumped from South Lake.
- 28. 2 pump houses are situated right beside the reservoir, 1 is none operational and the other is being shared between Hall Beach and the Department of National Defense. (photo #18) DnD and the Community do not differentiate between themselves as to who is taking water from the pump house.
- 29. Water log photo taken (Photo # 19)
- 30. Chlorine is used to treat the water, that happens inside the operational pump house. (Photo #20)

Spill Reports

spill-2020198 June 2020 (7843869.00 Litres of Sewage) a breakage in the Sewage lagoon.

spill-2021289 July 2021 (18152793.00 Litres of Sewage) breakage in sewage lagoon wall.

No other reports to date.



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and Northern Affairs Canada



Section 2 Non-Compliance with Choose an item.

- 1. Hazardous Waste found in Metal dumps and in the burn & cap facility as well as improper sorting of white waste.
- 2. Improperly sorted metals/white waste in burn and cap facility.
- 3. Old burn has not been capped, & is in contact with standing water
- 4. Oil spills and staining observed in the burn and cap facility
- 5. Oil leaks and stains in the hazardous waste storage facility. An active leak was observed, as well as various windblown debris in the berm.
- 6. Ensure upwelling (Photo #11) isn't berm water seeping through the Hazardous Waste Berm wall.
- 7. Proper signage missing

Section 3 Action Required

1. Ensure designated areas have proper signage to ensure proper sorting of wastes.

Hazardous wastes should be collected from Metal Dumps, Burn & Cap facility then brought to the Hazardous Waste Berm and sorted. As Per part D, Item 9 of the 3BM-HAL2025 license: "The Licensee shall segregate and store all hazardous materials and/or hazardous waste within the Solid Waste Disposal Facility in a manner as to prevent the deposit of deleterious substances into any water until such a time as proper disposal arrangements are made".

- 2.
- 3. Bulk metal waste should be removed from burn and cap and sorted appropriately
- 4. Mitigate burning of hazardous materials in the burn and cap
- 5. Report oil leaks within the facilities, store contaminated soil appropriately
- 6. Stop, and clean up oil leak in the Hazardous Waste Berm Facility (Photo #12), treat any water within the berm before discharging to the environment
- 7. Sample stream for hydrocarbons, downhill from the Hazardous Waste Berm (upwelling, Photo #11) to ensure Berm wall and liner isn't compromised.

Please address these non compliance issues within 30 days of receipt of this report and issue follow up photos as proof of mitigation and compliance.

Licensee or Representative	Inspector's Name
	Isaiah James Bolt
Signature	Signature
	01/08/2023
Date	Date





Office Use Only: Follow-up report to be issued by Inspector

 \square Yes \square No

PHOTO LOG				
Date:	Authorization Number:	Camera/Model:	Inspector	
Tuesday, June 20, 2023	3BM-HAL2025	Sony (DSC-HX50V)	Isaiah Bolt	
Photo No. Lat/Long (DD.MM.SS.SS, NAD83)				
Photo #1	Click or tap here to enter text.			



Description:

Photo Shows Propane, domestic waste, and white waste all together in the Bulk Metal facility.



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Description:

Gear oil amongst white waste in the bulk metal dump





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Crown-Indigenous Relations and Northern Affairs Canada



Lat/Long (DD.MM.SS.SS, NAD83) Photo No. Photo #4



Description:

Photo Showing the fallen Burn and Cap facility fence

Photo No. Lat/Long (DD.MM.SS.SS, NAD83) Photo #5 Click or tap here to enter text.



Photo shows Old Burn, no cap and sitting in the water.



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Photo No.Lat/Long (DD.MM.SS.SS, NAD83)Photo #6Click or tap here to enter text.



Description:

Buckets of primer and paint in the burn pile, along with a hot water heater, a generator and Freeezer was also found in the Burn and Cap

Photo No.Lat/Long (DD.MM.SS.SS, NAD83)Photo #7Click or tap here to enter text.



Description:

Photo showing cell 1, showing the truck discharge location and the erosion mitigation.



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Photo No.Lat/Long (DD.MM.SS.SS, NAD83)Photo #8Click or tap here to enter text.



Description:

Photo showing Cell 1 spillage area repair. spill-2021289

Photo No. Lat/Long (DD.MM.SS.SS, NAD83) Photo #9 Click or tap here to enter text.



Description:

Loose batteries, wood, oil cans, trash



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Photo No.

Lat/Long (DD.MM.SS.SS, NAD83)

Photo #11

Click or tap here to enter text.



Description:

Photo Showing downhill side of HWB. Unground water upwelling from under the berm. Potential drainage from inside the berm



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Photo No.Lat/Long (DD.MM.SS.SS, NAD83)Photo #12Click or tap here to enter text.



Description:

Signs of leaks and staining. Darkest Barrel in the photo is leaking actively.

Photo #13

Click or tap here to enter text.

Description:

Upclose photo of an active leak inside the HWB.



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Photo No.Lat/Long (DD.MM.SS.SS, NAD83)Photo #14Click or tap here to enter text.



Description:

Photo showing standing water inside the Hazardous Waste Berm





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Photo No.
Photo #16

Lat/Long (DD.MM.SS.SS, NAD83)
Click or tap here to enter text.

Description:

Domestic waste found at 2nd metal dump.

Photo No. Photo #17 Click or tap here to enter text. Photo #17 Description: Photo of the Dam that regulates flow into South Lake.



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Photo No.Lat/Long (DD.MM.SS.SS, NAD83)Photo #18Click or tap here to enter text.



Description:

Photo of the Pump House, truck fill pipe, and Storage Reservoir in the background.

Photo No.Lat/Long (DD.MM.SS.SS, NAD83)Photo #19Click or tap here to enter text.

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Tacker to 19 21 Mos 312.5 q Nos 312.5 q Nos 312.5 q 117.2 q

Subsection to 12 d Nos 312.5 q Nos 312

Description:

Photo shows the June 2023 water logs. June 18 to 20th.



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Photo No.Lat/Long (DD.MM.SS.SS, NAD83)Photo #20Click or tap here to enter text.



Description:

Photo shows the treatment of raw water. Hoses are hooked up with a large tank of chlorine and a chlorine pump to feed into the system.



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