ANNUAL REPORT FOR THE HAMLET OF GRISE FIORD

YEA	RE	BEING	REP	OR	TED:	2023	

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water Licence #3BM-GRI2025 issued to the Hamlet of Grise Fiord.

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.

Our monitoring stations are as follows:

- GRI-1 Raw water supply intake at the Water Supply Facility prior to treatment
- GRI-2 Effluent discharge from the Final Discharge Point at the Solid Waste Facility
- GRI-3 Raw sewage at the truck offload point
- GRI-4 Effluent discharge from the Final Discharge Point at the Sewage Disposal Facility

These samples are sent to the Caduceon Lab in Ottawa.

Results of recent testing is attached at Appendix "A"

Month Reported	Quantity of Water Obtained from all sources (litres)	Quantity of Sewage Waste Discharged (litres)
January	473,346	same
February	403,215	same
March	482,570	same
April	451,757	same
May	517,234	same
June	437,281	same
July	434,124	same
August	450,752	same

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September	467,593	same
October	476,367	same
November	424,987	same
December	424,759	same
ANNUAL TOTAL	5,443,985	Same

Volumes have been provided in litres.

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;
	There was no modifications/major maintenance work in 2023
	All 3 water tanks were in full capacity by the middle of August
	For 2024 we will have new water and sewage trucks arriving on sealift
v.	a list of unauthorized discharges and summary of follow-up action taken; There were no unauthorized discharges in 2023

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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 or restoration work completed during 2023
	For 2024 we anticipate lowering the intake pipe at the water reservoir to help increase the supply and gravity-flow of water from the reservoir to the water tanks
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;
	No studies requested or planned in 2023 Important to note: We were recently advised by the Government of Nunavut (CGS) that the construction of the new Water Treatment Plant will be delayed, with completion
	2027/28
viii	any other details on water use or waste disposal requested by the Board by November 1st of the year being reported; and None
ix.	updates or revisions to the approved Operation and Maintenance Plans. None
DDI'	TIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:
OLL	OW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

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GRI-4 Effluent Quality Limits

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Grise Fiord 2023 CIRNAC Inspection Report

Appendix A

GRI-4 Effluent Quality Limits

Grise Fiord does not have Effluent Limits

Appendix B

Certificate of Analysis

A SA 200% Surcharge 100% Surcharge 7 50% Surcharge 25% Surcharge * Must be arranged in advance 23-018496 5-7 days 23/07/2 ō Bronze Page 3 X Not applicable Laboratory Analysis will not commence until all Notification information is received and the Submission form is appropriately completed × Private Drinking Wate Not in Service Reg. 170/03 Reg 243/07 Reg. 319/08 ature "C: te Received (yy-Train amor PHC 12th Has Lab Service Notification (LSN) Form been completed & submitted to the MECP/PHU? eport by Email voice by Email voice by Mall Report by Fax GW = Raw Groundwater, SW = te of surface water, PR = Plumbi Project Name or 8: 23 597 02:41/b1-60-12 B-07-19 09:30 Jupal Blant .0. Courier (Caduceon account London Barrie Richmond Hill Courier (Client account) Caduceon (Pick-up) Hamlet of Grise Flord Grise Flord, NU PO Box 77 XOA 0JO 0 3 SW SW SW SW 23-19 **DRINKING WATER SUBMISSION FORM** A. Leban two without Note: No field littration for DOC or Dissolved CADUCEZ Metals, please analyze from Gen Chem bottl Settled River (time 24 hours) Settled River (time 48 hours) Settled River (firme 0) Raw River 2 (D/S Airport) Raw River (U/S Airport) Hamelt Of Grise Fiord Treated Truck Spare Set LEFMAN SAO Fex: Sqinia.com, qikiqt Sume 867-980-9959 Ž



CERTIFICATE OF ANALYSIS

Final Report

C.O.C.:

REPORT No: 23-018496 - Rev. 0

Report To:

Hamlet of Grise Fiord P.O. Box 77 Grise Fiord Grise Fiord, NU X0X 0J0 **CADUCEON Environmental Laboratories**

2378 Holly Lane

Ottawa, ON K1V 7P1

Attention: Daryl Dibblee

DATE RECEIVED: DATE REPORTED: 2023-Jul-21

2023-Jul-31

SAMPLE MATRIX:

Drinking Water

CUSTOMER PROJECT: 235971

P.O. NUMBER:

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Anions (Liquid)	2	OTTAWA	PCURIEL	2023-Jul-24	A-IC-01	SM 4110B
Colour (Liquid)	2	OTTAWA	MDON	2023-Jul-24	A-COL-01	SM 2120C
Cond/pH/Alk Auto (Liquid)	2,	OTTAWA	SBOUDREAU	2023-Jul-24	COND-02/PH-02/A	SM 2510B/4500H/
					LK-02	2320B
Cyanide Total (Liquid)	2 ·	KINGSTON	KWELCH	2023-Jul-26	CN-001	SM 4500-CN-E
DOC/DIC (Liquid)	2	OTTAWA	VKASYAN	2023-Jul-24	C-OC-01	EPA 415.2
HAA's (Liquid) (Subcontracted)	1	SGS_LAKEFIELD	SISLAM	2023-Jul-28	Subcontracted	Subcontracted
ICP/MS Total (Liquid)	2	OTTAWA	TPRICE	2023-Jul-28	D-ICPMS-01	EPA 6020
ICP/MS (Liquid)	2	OTTAWA	TPRICE	2023-Jul-26	D-ICPMS-01	EPA 200.8
ICP/OES Total (Liquid)	2	OTTAWA	NHOGAN	2023-Jul-25	D-ICP-01	SM 3120B
ICP/OES (Liquid)	2	OTTAWA	NHOGAN	2023-Jul-24	D-ICP-01	SM 3120B
Mercury (Liquid)	2	OTTAWA	TBENNETT	2023-Jul-25	D-HG-02	SM 3112B
Mercury (Liquid) Lab Filtered	2	OTTAWA	TBENNETT	2023-Jul-25	D-HG-02	SM 3112B
Ammonia (Liquid)	2	KINGSTON	AMANIYA	2023-Jul-28	NH3-001	SM 4500NH3
PHC F1 (Liquid)	1	RICHMOND_HILL	FLENA	2023-Jul-29	C-VPHW-01	MECP E3421
PHC F2-4 (Liquid)	2	KINGSTON	STHOMPSON	2023-Jul-27	PHC-W-001	MECP E3421
SVOC - Semi-Volatiles (Liquid)	2	KINGSTON	EASIEDU	2023-Jul-27	NAB-W-001	EPA 8270D
Total Organic Carbon (TOC)	2	OTTAWA	YKASYAN	2023-Jul-24	C-OC-01	EPA 415.2
TSS (Liquid)	2	KINGSTON	AMANIYA	2023-Jul-27	TSS-001	SM 2540D
Turbidity (Liquid)	2	OTTAWA	MDON	2023-Jul-24	A-TURB-01	SM 2130B
UV Trans. (Subcontracted)	2	TESTMARK	SISLAM	2023-Jul-26		Subcontracted

FLENA

RICHMOND_HILL

1

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

F1 C6-C10 hydrocarbons in µg/g, (F1-btex if requested)

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

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

F4 C34-C50 hydrocarbons in µg/g

UV Trans. (Subcontracted)

VOC-Volatiles Full (Water)

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.

Unless otherwise noted all extraction, analysis, QC requirements and fimits 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

C-VOC-02

2023-Jul-29

QC will be made available upon request.

Microbiology Supervisor

EPA 8260

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	·	nt I.D.	-Seitled River (time 24. hours)	Settled River (time 48 hours)
	-	ole I.D.	23-018496-1	23-018496-2
Parameter	Date Col Units	R.L.	2023-07-19	2023-07-19
Alkalinity(CaCO3) to pH4.5	mg/L	5	63	62,
pH @25°C	pH units	_	7.16	7.18
Conductivity @25°C	uS/cm	-1	114	114
TDS (Calc. from Cond.)	mg/L	3	58	58
Colour	TCU	2	<2	<2
Turbidity	ŅTU	0.1	1.2	1:2
Fluoride	mg/L	0.1	<0.1	<0.1
Chloride	mg/L	0.5	1.4	1.4
Nitrate (N)	mg/L	0.05	0:09	0.05
Sulphate	mg/L	1	2	2
Total Suspended Solids	mg/L	3	<3	<3
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05	<0.05	<0.05
Dissolved Organic Carbon	mġ/Ľ	0.2	0.8	<0.2
Total Organic Carbon	mg/Ľ	0.2	0.8	<0.2
Cyanide (Total)	mg/L	0.005	<0.005	<0.005
Hardness (as CaCO3)	mg/L	0.02	-56.7	
Hardness (as CaCO3)	mg/L as CaCO3	0.02		55.3
Aluminum	mg/L	0.01	0.03	0.04
Banum	mg/L	0.001	0.009	0.009
Boron	mg/Ļ	0.005	<0,005	<0.005
Calcium	mg/L	0,02	17,9	17.4

Shelly Lozo
Shelly Lozo
Microbiology Supervisor

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	Cite	nt I.D.	Settled River (time 24 hours)	Settled River (time 48 hours)
		ole I.D.	23-018496-1	23-018496-2
_	Date Col		2023-07-19	2023-07-19
Parameter	Units	R.L.		
Copper	mg/L	0.002	<0.002	<0.002
fron	mg/L	0.005	0.024	0.019
Magnesium	mg/L	0.02	2.90	2:87
Manganese	mg/L	0.001	<0.001	<0.001
Potassium	mg/L	0.1	0.1	<0.1
Sodium	mg/L	0.2	0.7	0.7
Zinc	mg/L	0.005	0.005	<0.005
Aluminum (Tötal)	mg/L	0.01	0.03	0.04
Barium (Total)	mg/L	0.001	0.009	0.009
Boron (Total)	mg/L	0.005	<0.005	<0.005
Calcium (Total)	mg/L	0.02	17.7	17.8
Copper (Total)	ing/L	0.002	<0.002	<0.002
Iron (Total)	mg/L	0.005	0.023	0.025
Manganese (Total)	mg/L	0.001	0,001	0,001
Potassium (Total)	mg/Ĺ	.0,1	<0.1	<0.1
Sodium (Total)	mg/L	0.2	0.9	0.8
Zinc (Total)	mg/L	0.005	<0.005	<0.005
Arsenić	mg/L	0.0001	<0.0001	<0.0001
Cadmium	mg/L	0.00001 5	<0.000015	<0.000015
Chromium	mg/L	0.001	<0.001	<0.0010
Lead	mg/L	0.0000	0.00008	0.00004

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	Client I.D.		Settled River (time 24 hours)	Settled River (time 48 hours)
	Sam	ple I.D.	23-018496-1	23-018496-2
	Date Co	llected	2023-07-19	2023-07-19
Parameter	Units	R.L.		
Selenium	mg/L	0.001	<0.001	<0.001
Uranium	mg/L	0.00005	<0.00005	<0.00005
Arsenic (Total)	.mg/L	0.0001	<0.0001	<0.0001
Cadmium (Total)	mg/L	0.00001 5	<0.000015	<0.000015
Chromium (Total)	mg/L	0.001	<0.001	<0.001
Lead (Total)	mg/L	0.00002	0.00008	0,00006
Selenium (Total)	mg/L	0.001	<0.001	<0.001
Uranium (Total)	mg/L	0,00005	<0.00005	0.00005
Mercury	mg/L	0.00002	<0.00002	0.00002
Mercury (Filtered)	mg/L	0.00002	<0.00002	0:00002

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	Client I.D.		Settled River (time 24 hours)	Settled River (time 48 hours)
		ple I.D.	23-018496-1	23-018496-2
	Date Co	lected	2023-07-19	2023-07-19
Parameter	Units	R.L.		
Benzene	µg/L	0.5		<0.5
Bromodichloromethane	µg/L	2		<2
Bromoform	µg/L	5		<5
Chloroform	µg/L	1		2
Dibromochloromethane	µg/L	2		·<2
Ethylbenzene	µg/L	0.5		<0.5
Total Trihalomethanes	µg/L	.6		<6
Toluëne	hâ\ŗ	0.5		0.6
Xylene, m,p-	hâyr	1		<1
Xylene, m,p,o-	pg/L	1.1		<1.1
Xylene, o-	'µg/L	0.5		<0.5
PHC F1 (C6-C10)	µg/L	25		<25
PHC F2 (>C10-C16)	μg/L	50	<50	<50
PHC F3 (>C16-C34)	μg/Ĺ	400	<400	<400
PHC F4 (>C34-C50)	µg/L	400	<400	<400

		ent I.D.	Settled River (time 24 hours)	Settled River (time 48 hours)
Devenistes	Date Co		2023-07-19	2023-07-19
Parameter	Units	R.L.		
Acenaphthene	µg/L	0.05	<0.05	<0.05
Aceriaphthylene	µg/L	0.05	<0.05	<0.05
Anthracene	µg/L	0.05	<0.05	<0.05
Benzojajanthracene	μ̈g/L	0.05	<0.05	<0.05
Benzó(a)pyrene	hã/r	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	μġ/L	0.05	<0.05	<0.05
Fluorene	μg/Ĺ	0.05	<0.05	<0.05
Indeno(1,2,3,-cd)Pyrene	µg/L	0.05	<0.05	< 0.05
Methylnaphthalene,1-	μg/t:	0.05	<0.05	<0.05
Methylnaphthalene,2-(1-)	hg/r	1	ব	<1
Methylnaphthalene,2-	µg/L	0.05	<0.05	<0.05
Naphthalene	µg/L.	0,05	<0.05	<0.05
Phenanthrene	μg/L	0.05	<0.05	<0.05
Pỳrene	μg/L	0,05	<0.05	<0,05
Total PAH	þg/L	0.1	<0.1	<0.1

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Subcontracted Analyses	CII	ent I.D.	Settled River (time 24 hours)	Settled River (time 48 hours)	
	Sam	ple I.D.	23-018496-1	23-018496-2	
	Date Co	llected	2023-07-19	2023-07-19	
Parameter	Units	R:L:			
Total Haloacetic Acids (HAA5)	'µg/L	-		<5.3	
(Mono) Chloroacetic Acid	μg/L	-		<4.7	
Bromoacetic Acid	μġ/L	-		<2.9	
Dichloroacetic Ácid	hã/r	-		3	
Dibromoacetic Acid	µg/L.	-		<2.0	
Trichforoacetic Acid	μg/Ľ	-		<5.3	
UV Transmittance	%	-	99,3	99.1	

Appendix C

Hazardous Materials Spill Database, Grise Fiord, 2023

No unauthorized spills or discharges in 2023

Appendix D

Grise Fiord 2023 CIRNAC Inspection Report

Affaires autochtones et du Nord Canada

WATER LICENCE INSPECTION FORM

☑ Original☑ Follow-Up Report

Licensee			Licensee Representa	tive		
Hamlet of Grise F	iord		Meghan Lusty			
Licence No. / Expiry			Representative's Tit	le		
3BM-GRI2025						The state of the s
Land / Other Authorizatio	ons		Land / Other Author	izations		
Data of Insuration						
July 10, 2023			Inspector Joseph Monte	ni+h		
Activities Inspected			Joseph Monte			
Camp Roads/Hauling	☐ Drilling ☑ Other: Potable Wate Facility, and Solid Waste	☐ Mining r Source, Waste Treatment Facility	Construction Other:	n Rec	lamation	☐ Fuel Storage
Conditions:	A- Acceptable	U-Unacceptable	C-Concern	NI-Not Inspe	cted	NA- Not applicable
PART:				Condition		Observation No.*
A: SCOPE, DEFINITION	NS AND ENFORCEME	NT		NA		
B: GENERAL CONDITI	ONS			Α		
C: CONDITIONS APPL	YING TO SECURITY			NI		***************************************
D: CONDITIONS APP	LYING TO WATER USI			Α		1-10
E: CONDITIONS APPI	LYING TO WASTE DISI	POSAL AND MANAGEN	1ENT	С	***************************************	11-20
F: CONDITIONS APPL	YING TO MODIFICATI	ONS		NI		21-22
G: CONDITIONS APP	LYING TO CONSTRUC	TION		Α		
H: CONDITIONS APPLYING TO EMERGENCY RESPONSE AND CONTINGENCY			ITINGENCY	Α		
PLANNING						
I: CONDITIONS APPL	YING TO ABANDONN	1ENT, RECLAMATION A	AND	NI		
CLOSURE PLANNING						
J: CONDITIONS APPLYING TO MONITORING				Α		
SCHEDULES				Α		
*The item numbe	r corresponds with sp		n the licence and provided below.	the observation	number (corresponds with specific
		Location(s): N76 25	32.5 W82 54 31.			
Samples taken by Ins	spector:					
☐ Yes ☒ No						
SECTION 1	Comments (s.	Non-Com	pliance with Act	or Licence (s.)	Action Required (s)
BACKGROUND				***************************************		the same of the sa
	a Fiord is a small of	mmunity located or	the southern	in of Ellesmer	s Island a	nt Latitude 76°25'N and
						mately 320 km NE of

The Hamlet of Grise Flord is a small community located on the southern tip of Ellesmere Island at Latitude 76°25'N and Longitude 83° 01'W, within the Qikiqtani Region of Nunavut. The Community is located approximately 320 km NE of Resolute. The Community is situated on a narrow strip of beach near the mouth of Grise Fiord. Surface soils in the area consist of free-draining gravel deposits. The depth of the active layer of permafrost is approximately 0.6m.

The Hamlet is responsible for providing municipal services to its estimated 178 (2020) residents, including potable water supply, sewage treatment, and solid waste management, partly in the context of a water licence issued by the Nunavut Water Board (NWB or Board) to the Hamlet. The potable water source for the community is a stream of glacial runoff which lasts for about 45 to 50 days a year during the summer from mid-June to beginning of August, resupplying two storage tanks through gravity feed. These storage tanks were built in 1986 (Tank A) and 2002 (Tank B) and have a capacity of 4,000 m3 each. The Community has a secondary water source (Airport River) about 300 m away from these tanks.

The Hamlet of Grise Fiord is licenced to withdrawal 7.700 cubic metres per annum, and less than 300 cubic metres per



- 1. Water withdrawal is conducted from a glacier run-off stream that meanders down to the Hamlet of Grise Fiord from the mountain above Grise Fiord. A pond with walls that extend up approximately a metre and a half catches water run-off, and pools up. Fencing was being erected around the ponds at the time of the inspection. No sign of fish mesh screen (photo 1,3,4).
- **2.** At the time of the inspection a yellow triangle sign was observed titled GRI-1. The monitoring station is listed in the water licence(photo 3).
- **3.** The secondary water source at airport river was observed with a water pump and hose (photo 2). The hose from the water pump deposited the water in the water reservoir.
- **4.** A 4 inch HDPE piping with a Fish Mesh Screen extends into the pond through the pond walls.
- **5.** The single walled piping from the water source to the water storage tank has multiple holes in the piping, patched only by screwing in screws with the rubber washers built into the screws. At the time of the inspection no signs of leaks in the pipes were noted. The length of piping from the pond to the water treatment facility is approximately 173 metres. The pipe changes into a flexible hose before it goes into water treatment facility. A green hose was observed.
- 6. The Water Treatment Plant, and its inner pipes (photo 5 &6).
- **7.** No working flow meter in the water treatment plant, truck was not available for observation of water meter readings.
- 8. Water Storage Tank damaged in 2018 was repaired in 2023. Equipment outside of tank (photo 8).
- **9.** A bridge crossing was inspected within the community. No signs of erosion on the banks or sedimentation were observed in the fresh water. Buildup of sand was observed on the bridge. This buildup has the potential to spill over into the fresh water. A containment wall should be fixed onto the bridge, and maintained to prevent sedimentation into the river (photo 17).
- **10.** 2022 annual report shows 5,201,326 m³ withdrawn(photo 18).

Waste Water Treatment Facility

- 11. The amount of waste deposited at the sewage lagoon should match the amount withdrawn from the potable water source, but doesn't take into account the amount water use such as dust suppression, which cannot be calculated as the same amount discharged at the sewage lagoon waste water. At the time of the inspection no record of waste deposited at the lagoon was observed (photo 18).
- **12.** The walls of the sewage lagoon appeared to be working as intended, with no signs of erosion or leaks. The freeboard was below the 1 metre freeboard (photo 10).
- **13.** Two yellow triangle signs titled GRI-3 and GRI-4 was observed. GRI-3 was observed at the sewage lagoon. GRI-4 was observed down slope of the sewage lagoon indicating monitoring sites.
- **14.** Notification of intention for decanting was emailed to WRO Monteith on June 29, 2023. Samples were taken, but no sample results were provided.

Solid Waste Facility

- **15.** The Solid Waste Facility was loosely segregated into Woods, Metals, Hazardous Wastes and Burnable Wastes (photo 14).
- **16.** The burnable waste is open pit burned, pushed off the end of that section then capped with soil. No fencing around the burnable waste.
- **17.** The bulk metals contain white waste, and metal from construction. Hazardous Waste was observed at this site (photo 13).
- **18.** Wood waste was segregated, probably for the purpose of allowing the community help themselves to the wood wastes (photo 11).
- **19.** The Hazardous Waste sea can is mixed with the bulk metal waste. Lots of hazardous waste observed within the bulk metals (photo 14,15,16).
- **20.** A yellow triangle sign titled GRI-2 was observed, which indicated a monitoring site. No Samples were taken on this inspection.

Spill Contingency

21. Spill observed in 2022, not reported and covered in gravel(photo 9).



(photo 8).

- Separate bulk metals, bulk wood, domestic waste, and hazardous waste to be in line with National Standards for the management of Solid Waste Facilities.
- Divert surface water run off away from Solid Waste Facility to mitigate the amount of wastes migrating to the receiving marine environment.
- Email joseph.monteith@rcaanc-cirnac.gc.ca notifying the inspector the intent to decant the sewage lagoon.
- Send WRO Monteith sample results ahead of a decant of the sewage lagoon.
- Maintain a 1 metre freeboard at the sewage lagoon.
- Verify whether there is Fish Mesh Screen on the intake hose at Airport River secondary water source, and the water source with the green hose.

SECTION 3	Comments	Non-Compliance with Act or Licence	Action Required
Part C: Condition	ns Applying to Water Use		

Item 5. The Licensee shall implement sediment and erosion control measures, prior to and during operations, to prevent entry of sediment into Water.

Part D: Conditions Applying to Waste Disposal

Item 2. The Licensee shall provide a minimum of ten (10) days' notice to an Inspector prior to initiating any decant of the Sewage Disposal Facility.

Item 4. The Licensee shall maintain at all times, a Freeboard of at least 1.0 metre, or as recommended by a qualified Geotechnical Engineer and as approved by the Board in writing, for all dams, dykes or other structures intended to contain, withhold, divert or retain Water or Waste.

Item 6. The Licensee shall manage all solid Waste disposed of at the Solid Waste Disposal Facility in accordance with acceptable standard and practices.

Item 8. The Licensee shall segregate and store all hazardous materials and/or hazardous Waste within the Solid Waste Disposal Facility in such a manner as to prevent the deposit of deleterious substances into any Water, until such a time that the materials have been removed for proper disposal at an approved facility.

Part F: Conditions Applying Operation and Maintenance

Item 6. The Licensee shall, during the term of this Licence, undertake the following activities in addition to any other required action should an unauthorized discharge of waste occur or if such a discharge is foreseeable:

- a. Employ the appropriate contingency measures as approved under the Spill Contingency Plan for the Hamlet of Grise Fiord;
- b. Report the incident immediately via the NWT/NU 24-Hour Spill Reporting Line at (867) 920-8130 and to the Inspector at (867) 975-4295; and
- c. Submit to the Inspector, a detailed report on each occurrence, not later than thirty (30) days after initially reporting the event, that provides the necessary information on the location (including the GPS coordinates), initial response action, remediation/clean-up, status of response (ongoing, complete), proposed disposal options for dealing with contaminated materials and preventative measures to be implemented.

Licensee or Representative	Inspector's Name
Gord Marinic	Joseph Monteith
Signature	Signature
	1-pl Mittle.
Date	Date
	December 5, 2023

CC: Licensing Department, NWB

Jeremy Fraser, Manager of Field Operations, CIRNAC

PHOTO LOG

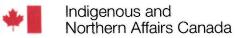




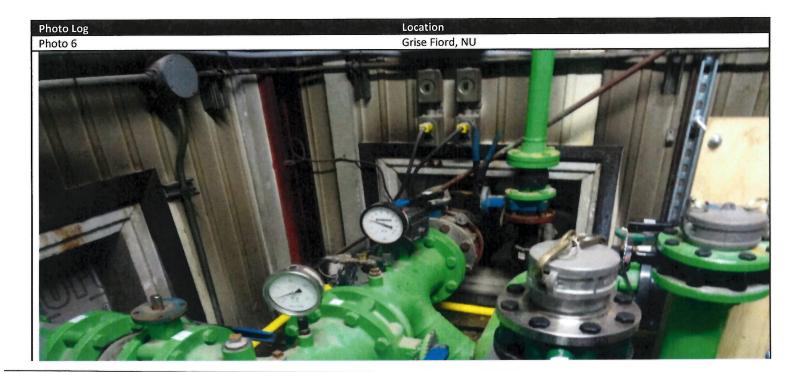














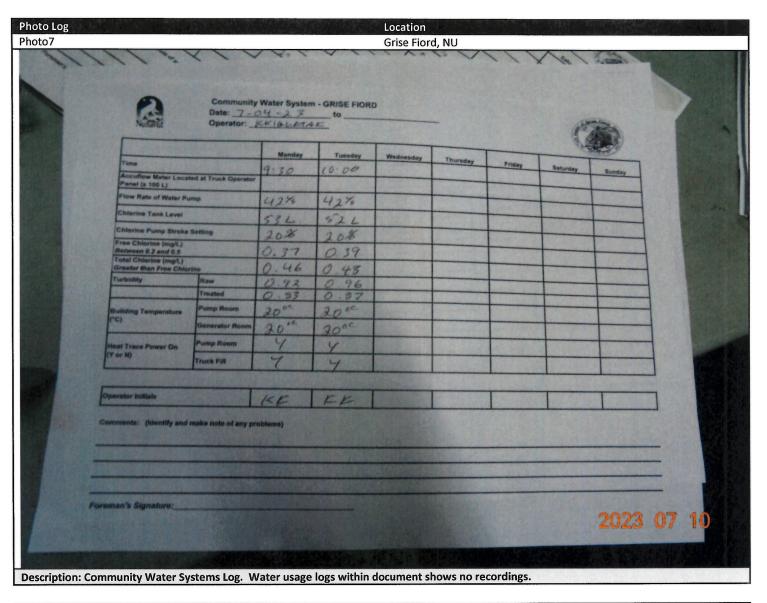
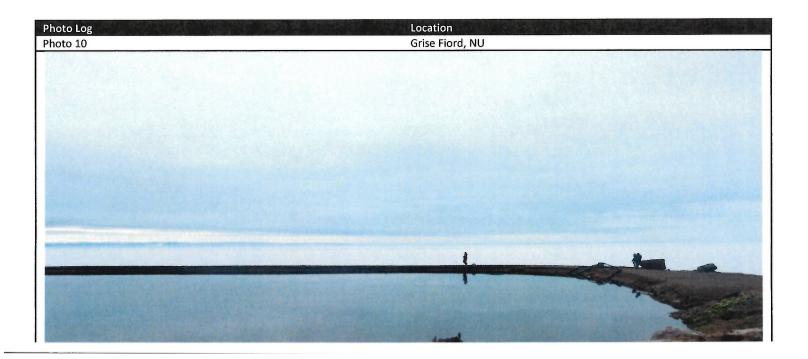


Photo Log Photo 8	Location Grise Fiord, NU

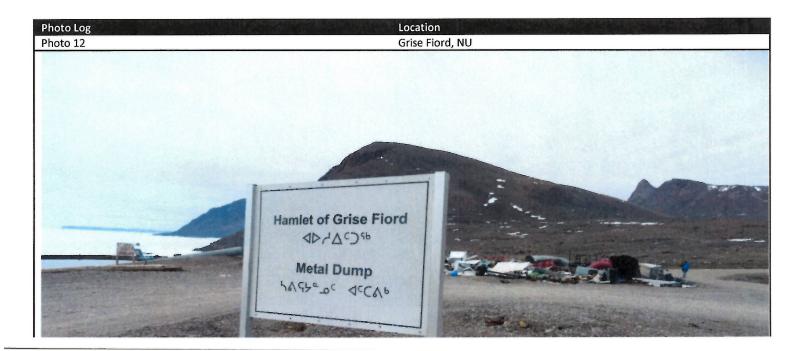


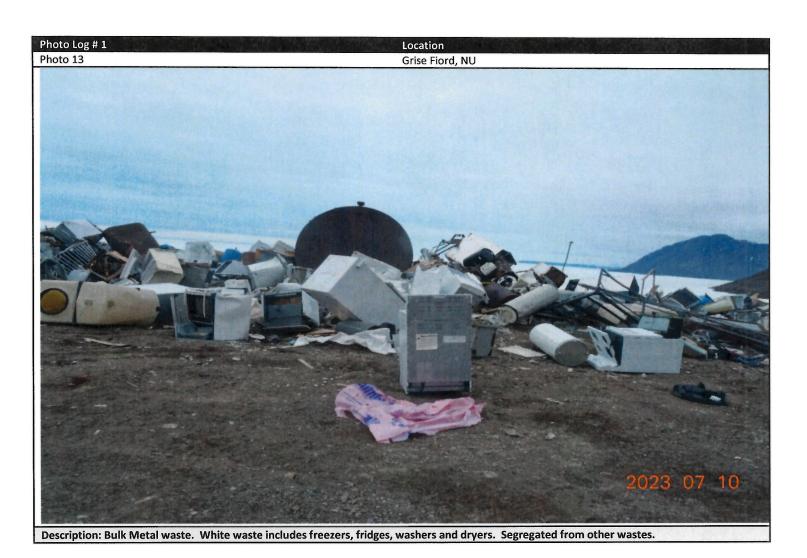


















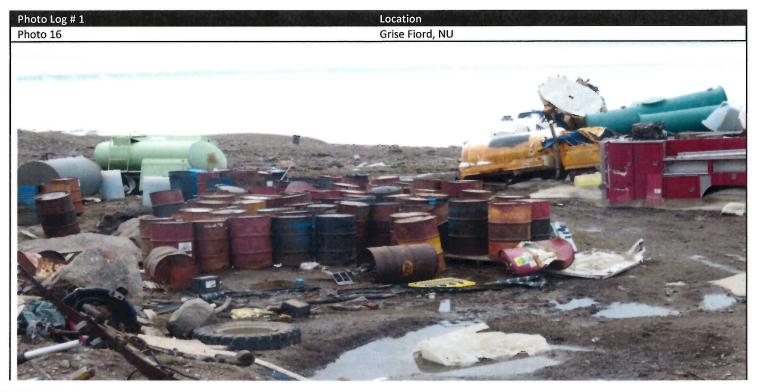






Photo Log	Location	
Photo 18	Grise Fiord, NU	

YEAR BEING REPORTED: 2022

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water License # 3BM-GRI2025 issued to the Municipality of Grise Fiord.

 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 quantities of water used as reported in our On Tap Water Delivery System and the estimated discharge of sewage waste.

Month Reported	Quantity of Water Obtained from all sources (m ³)	Quantity of Sewage Waste Discharged (Estimated)
January	480,628	Same
February	416,732	Same
March	460,233	Same
April	470,910	Same
May	453,718	Same
June	385,958	Same
July	366,799	Same
August	464,775	Same
September	426,054	Same
October	417,637	Same
November	436.221	Same