

ANNUAL REPORT FOR THE HAMLET OF ARCTIC BAY

YEAR BEING REPORTED: 2021

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water Licence No. **3BM-ARC1924** issued to the **Hamlet of Arctic Bay**.

- 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 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 (m ³)
January	2,255.9074	Same
February	2,112.4895	Same
March	2,236.6165	Same
April	2,879.9203	Same
May	2,305.1432	Same
June	1,966.3882	Same
July	2,162.8992	Same
August	1,847.1766	Same
September	2,510.3658	Same
October	2,267.3332	Same
November	2,341.8430	Same
December	1,218.8256	Same
ANNUAL TOTAL	26,104.9085	Same

Note: The water consumption volume is considered equal to the sewage discharge volume because there is no meter at the end of the discharge pipe.

ANNUAL REPORT FOR THE HAMLET OF ARCTIC BAY

- 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:
- During the reporting period, no modification and/or major maintenance works were carried out on any Water Licensed Facilities.
- V. A list of unauthorized discharges and summary of follow-up action taken:
- No unauthorized discharges for the infrastructure under license 3BM-ARC1924 occurred in 2021.
- 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 2021.
- 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:
- A business case is being developed for the water treatment plant upgrade and will be completed April 2022.
- 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

ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

- CGS will work with the Municipality during summer 2022 to ensure all sampling requirements under the water license are met.

FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

- The Municipality will work to improve hazardous waste segregation and storage within the solid waste site during summer 2022, including battery storage in a seacan.

**ANNUAL REPORT
FOR THE HAMLET OF ARCTIC BAY**

Appendix A: ARC-4 Effluent Quality Limits

**Appendix B: Certificate of Analysis September 21, 2021
Certificate of Analysis September 29, 2021**

Appendix C: Hazardous Materials Spill Database, Arctic Bay 2021

Appendix D: Arctic Bay 2021 CIRNAC Inspection Report

**ANNUAL REPORT
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Appendix A

**ANNUAL REPORT
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3BM-ARC1924 Arctic Bay Monitoring Program Results 2021
ARC-4 Effluent Quality limits

Parameter	Maximum Concentration of any Grab Sample
BOD₅	120 mg/L
Total Suspended Solids	180 mg/L
Fecal Coliform	1x10⁶ CFU/100 mL
Oil and Grease	No visible sheen
pH	Between 6 and 9

No ARC-4 Effluent Quality Limit values were received by CGS

**ANNUAL REPORT
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Appendix B

C.O.C.: G101168

REPORT No. B21-31549

Report To:

Hamlet of Arctic Bay

Box 150,
Arctic Bay NU X0A 0A0 Canada

Attention: Sam Willie

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 30-Sep-21

JOB/PROJECT NO.: 2021 Landfill Leachate

DATE REPORTED: 07-Oct-21

P.O. NUMBER: 18993

SAMPLE MATRIX: Leachate

WATERWORKS NO.

			Client I.D.	ARC-6			
			Sample I.D.	B21-31549-1			
			Date Collected	29-Sep-21			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Hardness (as CaCO ₃)	mg/L	1	SM 3120	04-Oct-21/O	695		
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	01-Oct-21/O	212		
pH @25°C	pH Units		SM 4500H	01-Oct-21/O	7.63		
Conductivity @25°C	µmho/cm	1	SM 2510B	01-Oct-21/O	2770		
Total Suspended Solids	mg/L	3	SM2540D	04-Oct-21/K	17		
Chloride	mg/L	0.5	SM4110C	04-Oct-21/O	511		
Nitrite (N)	mg/L	0.1	SM4110C	04-Oct-21/O	< 1		
Nitrate (N)	mg/L	0.1	SM4110C	04-Oct-21/O	< 1		
Sulphate	mg/L	1	SM4110C	04-Oct-21/O	532		
Aluminum	mg/L	0.01	SM 3120	04-Oct-21/O	0.06		
Arsenic	mg/L	0.0005	EPA 200.8	06-Oct-21/O	0.0009		
Cadmium	mg/L	0.000070	EPA 200.8	06-Oct-21/O	< 0.000070		
Calcium	mg/L	0.02	SM 3120	04-Oct-21/O	141		
Chromium	mg/L	0.002	SM 3120	04-Oct-21/O	< 0.002		
Cobalt	mg/L	0.005	SM 3120	04-Oct-21/O	0.007		
Copper	mg/L	0.002	SM 3120	04-Oct-21/O	< 0.002		
Iron	mg/L	0.005	SM 3120	04-Oct-21/O	3.27		
Lead	mg/L	0.0001	EPA 200.8	06-Oct-21/O	< 0.0001		
Manganese	mg/L	0.001	SM 3120	04-Oct-21/O	2.88		
Mercury	mg/L	0.00002	SM 3112 B	05-Oct-21/O	< 0.00002		
Nickel	mg/L	0.01	SM 3120	04-Oct-21/O	< 0.01		
Potassium	mg/L	0.1	SM 3120	04-Oct-21/O	54.7		
Zinc	mg/L	0.005	SM 3120	04-Oct-21/O	0.037		
Ammonia (N)-Total	mg/L	0.01	SM4500-NH ₃ -H	04-Oct-21/K	0.56		
Phosphorus-Total	mg/L	0.01	E3199A.1	05-Oct-21/K	0.10		
Phenolics	mg/L	0.002	MOEE 3179	04-Oct-21/K	< 0.002		
BOD(5 day)	mg/L	3	SM 5210B	01-Oct-21/K	5		



Greg Clarkin , BSc., C. Chem
Lab Manager - Ottawa District

R.L. = Reporting Limit

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

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from

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			Sample I.D.	B21-31549-1			
			Date Collected	29-Sep-21			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Total Organic Carbon	mg/L	0.2	EPA 415.2	30-Sep-21/O	6.7		
Oil & Grease-Total	mg/L	1.0	SM 5520	06-Oct-21/K	1.4		
Fecal Coliform	cfu/100mL	1	MOE E3371	30-Sep-21/O	< 2		
Benzene	µg/L	0.5	EPA 8260	04-Oct-21/R	< 0.5		
Toluene	µg/L	0.5	EPA 8260	04-Oct-21/R	< 0.5		
Ethylbenzene	µg/L	0.5	EPA 8260	04-Oct-21/R	< 0.5		
Xylene, m,p-	µg/L	1.0	EPA 8260	04-Oct-21/R	< 1.0		
Xylene, o-	µg/L	0.5	EPA 8260	04-Oct-21/R	< 0.5		
Xylene, m,p,o-	µg/L	1.1	EPA 8260	04-Oct-21/R	< 1.1		
Toluene-d8 (SS)	% rec.		EPA 8260	04-Oct-21/R	105		
PHC F1 (C6-C10)	µg/L	25	MOE E3421	04-Oct-21/R	< 25		
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	04-Oct-21/K	< 50		
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	04-Oct-21/K	< 400		
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	04-Oct-21/K	< 400		
Acenaphthene	µg/L	0.05	EPA 8270	06-Oct-21/K	< 0.2		
Acenaphthylene	µg/L	0.05	EPA 8270	06-Oct-21/K	< 0.1		
Anthracene	µg/L	0.05	EPA 8270	06-Oct-21/K	< 0.1		
Benzo(a)anthracene	µg/L	0.05	EPA 8270	06-Oct-21/K	< 0.3		
Benzo(a)pyrene	µg/L	0.01	EPA 8270	06-Oct-21/K	< 0.07		
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	06-Oct-21/K	< 0.1		
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	06-Oct-21/K	< 0.2		
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	06-Oct-21/K	< 0.1		
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	06-Oct-21/K	< 0.1		
Chrysene	µg/L	0.05	EPA 8270	06-Oct-21/K	< 0.1		
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	06-Oct-21/K	< 0.1		
Fluoranthene	µg/L	0.05	EPA 8270	06-Oct-21/K	< 0.1		
Fluorene	µg/L	0.05	EPA 8270	06-Oct-21/K	< 0.1		



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Box 150,
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Attention: Sam Willie

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 30-Sep-21

JOB/PROJECT NO.: 2021 Landfill Leachate

DATE REPORTED: 07-Oct-21

P.O. NUMBER: 18993

SAMPLE MATRIX: Leachate

WATERWORKS NO.

			Client I.D.	ARC-6			
			Sample I.D.	B21-31549-1			
			Date Collected	29-Sep-21			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	06-Oct-21/K	< 0.1		
Methylnaphthalene, 1-	µg/L	0.05	EPA 8270	06-Oct-21/K	< 0.1		
Methylnaphthalene, 2-	µg/L	0.05	EPA 8270	06-Oct-21/K	< 0.2		
Naphthalene	µg/L	0.05	EPA 8270	06-Oct-21/K	< 0.3 ¹		
Phenanthrene	µg/L	0.05	EPA 8270	06-Oct-21/K	< 0.2		
Pyrene	µg/L	0.05	EPA 8270	06-Oct-21/K	< 0.10		
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	06-Oct-21/K	65.0		

¹ NOTE: Elevated RLs due to sample matrix interferences.



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Lab Manager - Ottawa District

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Appendix C

List of spills reported to the NT-NU Spill Report Line and are listed on the Hazardous Materials Spills Database of Arctic Bay in 2021

Spill	Occurrence Date	Location Description	Product Spilled	Quantity
2021386	24-August-2021	Arctic Bay, NU Latitude: 73 degrees 02 minutes 34 seconds Longitude: 85 degrees 09 minutes 33 seconds	Petroleum - fuel oil (jet A, diesel, turbo A, heat)	5.00 L
2021213	27-May-2021	Taqqut Co-op Arctic Bay	Petroleum - fuel oil (jet A, diesel, turbo A, heat)	1.00 L
2021118	19-May-2021	Unit 31 Artic Bay	Petroleum - fuel oil (jet A, diesel, turbo A, heat)	Unknown
2021052	01-March-2021	Arctic Bay, Sewage lagoo	Wastewater (sewage, mine tailings)	2500.00 L

C.O.C.: G095540

REPORT No. B21-30682

Report To:

Hamlet of Arctic Bay

Box 150,
Arctic Bay NU X0A 0A0 Canada

Attention: Sam Willie

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 23-Sep-21

JOB/PROJECT NO.: Annual Decant

DATE REPORTED: 29-Sep-21

P.O. NUMBER: 18973

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.		ARC-8 - End of Decant			
			Sample I.D.		B21-30682-1			
			Date Collected		21-Sep-21			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Hardness (as CaCO ₃)	mg/L	1	SM 3120	24-Sep-21/O	79			
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	23-Sep-21/O	360			
pH @25°C	pH Units		SM 4500H	23-Sep-21/O	7.73			
Conductivity @25°C	µmho/cm	1	SM 2510B	23-Sep-21/O	1070			
Total Suspended Solids	mg/L	3	SM2540D	24-Sep-21/K	60			
Chloride	mg/L	0.5	SM4110C	27-Sep-21/O	58.0			
Nitrite (N)	mg/L	0.1	SM4110C	27-Sep-21/O	< 0.1			
Nitrate (N)	mg/L	0.1	SM4110C	27-Sep-21/O	0.1			
Sulphate	mg/L	1	SM4110C	27-Sep-21/O	< 1			
Aluminum	mg/L	0.01	SM 3120	24-Sep-21/O	0.31			
Arsenic	mg/L	0.0005	EPA 200.8	28-Sep-21/O	0.0012			
Cadmium	mg/L	0.005	SM 3120	24-Sep-21/O	< 0.005			
Calcium	mg/L	0.02	SM 3120	24-Sep-21/O	14.7			
Chromium	mg/L	0.002	SM 3120	24-Sep-21/O	< 0.002			
Cobalt	mg/L	0.005	SM 3120	24-Sep-21/O	< 0.005			
Copper	mg/L	0.002	SM 3120	24-Sep-21/O	0.072			
Iron	mg/L	0.005	SM 3120	24-Sep-21/O	1.51			
Lead	mg/L	0.02	SM 3120	24-Sep-21/O	< 0.02			
Magnesium	mg/L	0.02	SM 3120	24-Sep-21/O	10.3			
Manganese	mg/L	0.001	SM 3120	24-Sep-21/O	0.324			
Mercury	mg/L	0.00002	SM 3112 B	29-Sep-21/O	0.00005			
Nickel	mg/L	0.01	SM 3120	24-Sep-21/O	< 0.01			
Potassium	mg/L	0.1	SM 3120	24-Sep-21/O	25.8			
Sodium	mg/L	0.2	SM 3120	24-Sep-21/O	51.3			
Zinc	mg/L	0.005	SM 3120	24-Sep-21/O	0.116			

NOTE: Fecal Coliform passed acceptable holding time of 48 hrs upon arrival at Lab.



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Lab Manager - Ottawa District

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C.O.C.: G095540

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Box 150,
Arctic Bay NU X0A 0A0 Canada

Attention: Sam Willie

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 23-Sep-21

JOB/PROJECT NO.: Annual Decant

DATE REPORTED: 29-Sep-21

P.O. NUMBER: 18973

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.		ARC-8 - End of Decant			
			Sample I.D.		B21-30682-1			
			Date Collected		21-Sep-21			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Ammonia (N)-Total	mg/L	0.01	SM4500- NH3-H	24-Sep-21/K	92.7			
Phenolics	mg/L	0.002	MOEE 3179	27-Sep-21/K	0.976			
BOD(5 day)	mg/L	3	SM 5210B	24-Sep-21/K	39			
Total Organic Carbon	mg/L	0.2	EPA 415.2	24-Sep-21/O	84.9			
Oil & Grease-Total	mg/L	1.0	SM 5520	28-Sep-21/K	16.6			
Fecal Coliform	cfu/100mL	1	MOE E3371	23-Sep-21/O	70000			

NOTE: Fecal Coliform passed acceptable holding time of 48 hrs upon arrival at Lab.



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Appendix D

WATER LICENCE INSPECTION FORM

☒ Original

☐ Follow-Up Report

Licensee	Licensee Representative
Hamlet of Arctic Bay	Bhabesh Roy
Licence No. / Expiry	Representative's Title
3BM-ARC1924	Municipal Engineer
Land / Other Authorizations	Land / Other Authorizations
Date of Inspection	Inspector
July 21, 2021	Joseph Monteith
Activities Inspected	

☐ Camp

☐ Drilling

☐ Mining

☐ Construction

☐ Reclamation

☐ Fuel Storage

☐ Roads/Hauling

☒ Other: Potable water, Sewage, and Solid Waste

☐ Other:

Conditions:	A- Acceptable	U-Unacceptable	C-Concern	NI-Not Inspected	NA- Not applicable
PART:				Condition	Observation No.*
A: SCOPE, DEFINITIONS AND ENFORCEMENT				A	
B: GENERAL CONDITIONS				A	
C: CONDITIONS APPLYING TO SECURITY				NI	
D: CONDITIONS APPLYING TO WATER USE				A	1-3
E: CONDITIONS APPLYING TO WASTE DISPOSAL AND MANAGEMENT				C	4-15
F: CONDITIONS APPLYING TO MODIFICATIONS				NA	
G: CONDITIONS APPLYING TO CONSTRUCTION				NA	
H: CONDITIONS APPLYING TO EMERGENCY RESPONSE AND CONTINGENCY PLANNING				A	
I: CONDITIONS APPLYING TO ABANDONMENT, RECLAMATION AND CLOSURE PLANNING				NA	
J: CONDITIONS APPLYING TO MONITORING				A	
SCHEDULES				A	
*The licence and the observation number corresponds with specific comments provided below.					
Samples taken by Inspector:			Location(s): Latitude: 73° 02’ N Longitude: 83° 05’ W (Project Extents)		
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					

SECTION 1

☒ Comments (s.____)

☐ Non-Compliance with Act or Licence (s.____)

☐ Action Required (s.____)

BACKGROUND

The community was issued Water Licence 3AM-ARC1924 in 2019, which is set to expire in August of 2024. They are permitted to withdraw 299 cubic metres of water per day for an annual total of 109,135 cubic metres. The way they calculate the amount of sewage waste discharged is by duplicating the water withdrawal amounts.

Inspector Statement

On July 21, 2021, a water licence inspection was conducted by Water Resource Officer(WRO) Joseph Monteith at the Hamlet of Arctic Bay, Qiqiktani Region, Nunavut to verify compliance with the terms and conditions of 3BM-ARC1924.

Water Use and Related structures

1. Water is being withdrawn from pump house at Marcil Lake(photo 1), as approved by the Water Licence. They were withdrawing water from Marcil Lake using trucks when the water pump from the pump house was broken.

2. The flow meter in the pump house isn't working(photo 2). The municipality records the amount withdrawn from trucks, and that information is recorded in a log book (photo 3).

3. At the time of the inspection the Hamlet of Arctic Bay's Water Usage Report, from January 2021, to October 2021. 22, 476 m³ withdrawn from the water source(photo 4).

Waste Water Treatment Facility

4. At the time of the inspection, the sewage lagoon was in-use and operating as intended. The walls were retaining the sewage as intended. A Sewage truck was observed at the time of inspection discharging into the sewage lagoon.

5. The berm walls surrounding the lagoon did have a pool of water on the west side of the lagoon, with minor migration of raw water from the pool into the lagoon. This could create erosion on the walls, Bhabesh Roy

actioned for some soil to be placed down to mitigate the potential for erosion.

6. The freeboard was sufficient and estimated to be between 4-6 metres.
7. Discharge is syphoned over the berm wall, and takes 2 weeks to decant. To create a seal tight fit for the decanting of the lagoon, the foreman uses farmers grease at the connection points. The hose does not have heat tracing to encourage unfreezing of the pipe.
8. The lagoon has 1 monitoring station at the lagoon titled ARC-8, 4 Thermistors, 4 Stan Pipes, and 1 overflow canal. The thermistors access box appears to be damaged.
9. The concerns of this site would be the pooling of water on the west side of the lagoon wall, and the damage to the access box for the thermistors, which were noted by Bhabesh Roy at the time of the inspection.
10. It was observed that signs of large spills, or accumulated small spills had drenched the location of the discharge. No spill reports have come out of this site to date (photo 5 & 6)

Solid Waste Facility

11. The licensee segregates their waste into Burn and Cap, Bulk Metal, Tires, and hazardous waste.
12. It was observed that a small stream flow through the existing metal storage area and then flows through the hazardous waste facility (photo 7).
13. Hazardous Waste batteries were observed throughout the metals section of the land fill. Any rain that gets in contact with the batteries has the potential to carry with it the hazardous waste into water.
14. At the time of the inspection it was observed that a lot of the hazardous waste found throughout the solid waste facility was not in secondary containment, and not encapsulated, which runs contrary to Part D: Subsection 7 which is to prevent the deposit of deleterious substances into any water. Hazardous waste exposed to the elements poses a significant risk of migration of the hazardous waste into water.
15. The burn and cap section of the solid waste facility had a pool of water in the middle of the facility (photo 8).

SECTION 2



Comments



Non-Compliance with Act or Licence



Action Required

The following information is a summary of the actions Required by the licensee to promote and ensure compliance:

- It was encouraged at the time of the inspection to consolidate all the hazardous waste such as batteries found throughout the bulk metal section of the Solid Waste section to segregate them to the hazardous waste sea can.
- Articulate how you calculate water usage.
- The Licensee is reminded to remain diligent to prevent wastes from entering water, and the environment.
- Stop all the water from interacting with the hazardous waste facility, and the burn and cap from migrating off site.
- Submit spill reports for all spills regardless of size and quantity, from all hamlet facilities.
- Submit a spill report for the observed spills at the Sewage Lagoon, and clean it up as per the license.

SECTION 3



Comments



Non-Compliance with Act or Licence

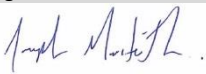


Action Required

Please review the subsections of the water license:

- Part D: Subsection 7:
The Licensee shall segregate and store all hazardous materials and/or hazardous waste within the Solid Waste Disposal Facility and in such a manner as to prevent the deposit of deleterious substances into any Water and until such time that proper disposal arrangements are made;
- Part B: Subsection 5:
The Licensee shall install flow meters or other such devices, or implement suitable methods required for the measuring of Water volumes as required under Part I, Item 3
- Part B: Subsection 11
The Licensee shall immediately report any spills of Waste, which are reported to, or observed by the Licensee, within the municipal boundaries or in the areas of the Water Supply or Waste Disposal Facilities, to the NWT/NU 24-Hour Spill Line at (867) 920-8130 and to the Inspector at (867) 975-4295.
*Inspector telephone number 1 867 975-1787
- Part G: Subsection 4
If, during the term of this Licence, an unauthorized discharge of Waste occurs, or if such a discharge is foreseeable, the Licensee shall:
 - employ the appropriate contingency measures outlined in the Spill Contingency Plan referred to in Part G, Item1;
 - report the incident immediately to the NWT/NU 24-Hour Spill Line at (867) 920-8130 and to the Inspector at (867) 975-4295; and
 - for each spill occurrence, submit to the Inspector, within thirty (30) days after initially reporting the event, a detailed report 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 any preventative measures to be implemented.

Licensee or Representative	Inspector's Name
Bhabesh Roy	Joseph Monteith
Signature	Signature
	
Date	Date
	November 10, 2021

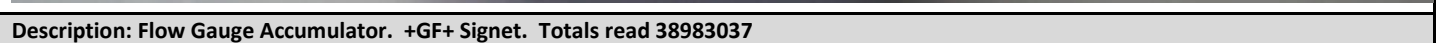
CC: Licensing Department, NWB
Justin Hack, Manager of Field Operations, CIRNAC

PHOTO LOG

Date	Camera	Inspector	Location
July 21, 2021	Nikon Coolpix 52000738	Joseph Monteith	Arctic Bay
Photo Log # 1			
Photo 1			
			
Description: Site of water withdrawal – water meter broken.			

Location

Arctic Bay, Qikiqtani Region, Nunavut

**Location**

Arctic Bay, Qikiqtani Region, Nunavut



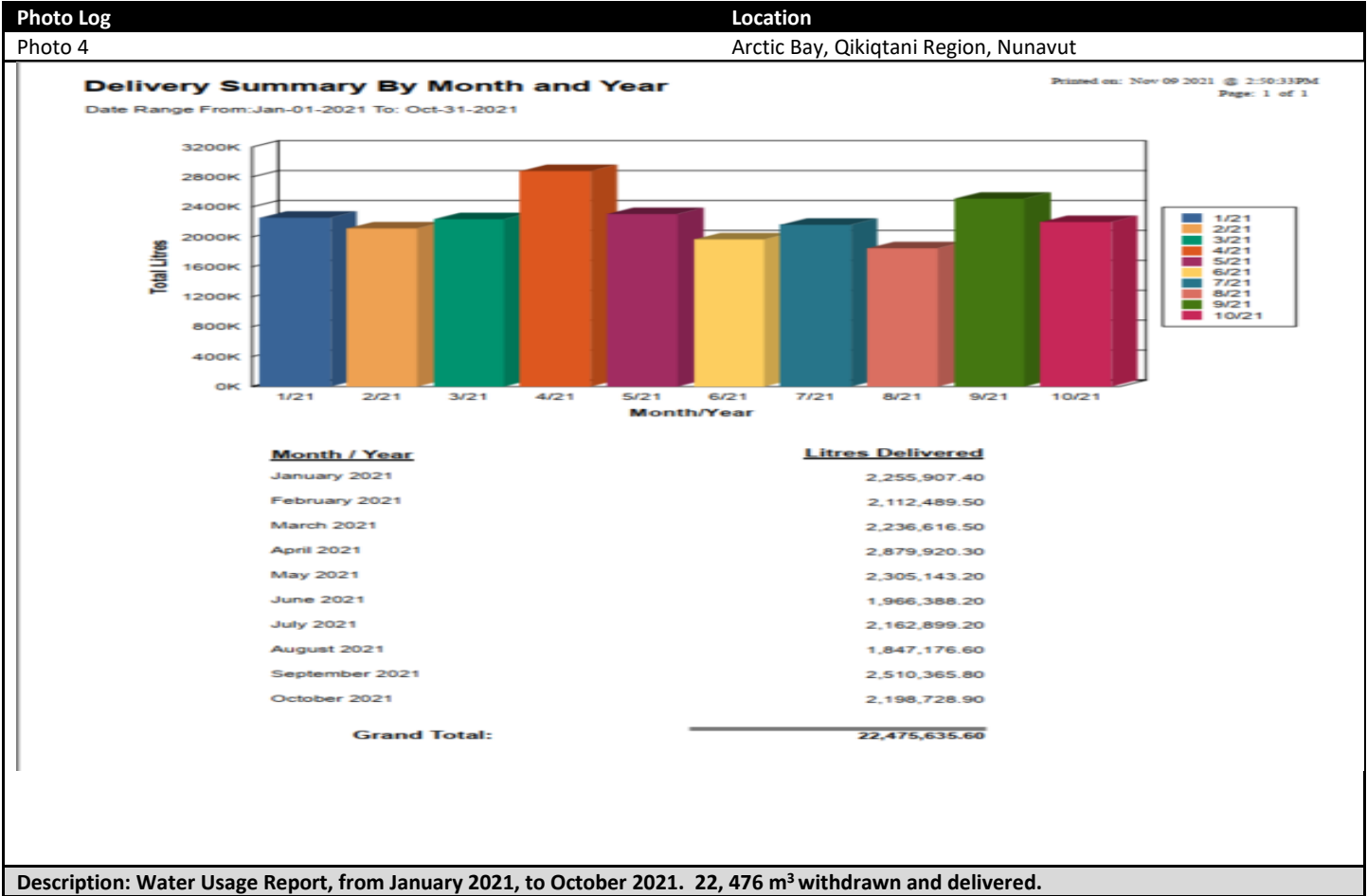


Photo Log	Location
Photo 6	Arctic Bay, Qikiqtani Region, Nunavut



Description: Sewage Truck discharging sewage into the sewage lagoon. Foreground coloration. Signs of spills

Photo Log #	Location
Photo 7	Arctic Bay, Qikiqtani Region, Nunavut



Description: Hazardous Waste exposed to the elements. Water puddles in the lower foreground of photo.



Photo Log #	Location
Photo 8	Arctic Bay, Qikiqtani Region, Nunavut
	
Description: Burn and cap section of the solid waste facility. Standing water	