

WATER LICENCE INSPECTION FORM

☒ Original

☐ Follow-Up Report

Licensee	Licensee Representative
Hamlet of Resolute Bay	Gord Marinic , Ken Timlin
Licence No. / Expiry	Representative's Title
3BM-YRB2126	Regional Engineer
Land / Other Authorizations	Land / Other Authorizations
Date of Inspection	Inspector
July 7, 2022	Joseph Monteith
Activities Inspected	

☐ Camp☐ Drilling☐ Mining☐ Construction☐ Reclamation☐ Fuel Storage

☐ Roads/Hauling☒ Other: Sewage Disposal Facility☐ Other:

Conditions:

A- Acceptable

U-Unacceptable

C-Concern

NI-Not Inspected

NA- Not applicable

PART:	Item No.*	Condition	Observation No.*
A: SCOPE, DEFINITIONS AND ENFORCEMENT		A	
B: GENERAL CONDITIONS		C	
C: CONDITIONS APPLYING TO SECURITY		NI	
D: CONDITIONS APPLYING TO WATER USE		A	
E: CONDITIONS APPLYING TO WASTE DISPOSAL AND MANAGEMENT		C	1-6
F: CONDITIONS APPLYING TO MODIFICATIONS		NI	
G: CONDITIONS APPLYING TO CONSTRUCTION		C	
H: CONDITIONS APPLYING TO EMERGENCY RESPONSE AND CONTINGENCY PLANNING		C	
I: CONDITIONS APPLYING TO ABANDONMENT, RECLAMATION AND CLOSURE PLANNING		NI	
J: CONDITIONS APPLYING TO MONITORING		C	
SCHEDULES		NI	
<i>*The item number corresponds with specific conditions within the licence and the observation number corresponds with specific comments provided below.</i>			
Samples taken by Inspector:	Location(s):		
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	N74° 42' 00" ,W94° 50' 00"		

SECTION 1

☒ Comments (s. \_\_)

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

☐ Action Required (s. \_\_)

**BACKGROUND**

Application is by the Government of Nunavut – Community and Government Services (GN-CGS or the Applicant), on behalf of the Government of Nunavut – Department of Economic Development and Transportation (GN-EDT or Licensee), for the renewal, for a term of five (5) years, of Type “B” Water Licence No: 3BM-YRB1621 to allow for the continued operation of a Sewage Disposal Facility located within the municipal boundaries of the Hamlet of Resolute Bay in the Qikiqtani Region, Nunavut.

**Inspector Statement**

On July 7, 2022, A Water Licence Inspection was conducted by Water Resource Officer(WRO) Joseph Monteith at the Resolute Bay ATCO Sewage Disposal Facility at the Resolute Bay Airport, NU.

**General Condition**

On January 27, 2021 Robin Ikkutisluk, Nunavut Water Board, emailed Water Resource Officer(WRO) Monteith a copy of Resolute Bay Airport’s 2020 Annual Report. Satisfying Part B: Item 1 of the Water Licence. The annual report can be reviewed off the hyperlink.

<ftp://ftp.nwb-oen.ca/registry/3%20MUNICIPAL/3B/3BM%20-%20Municipality/3BM->

[YRB1621/3%20TECH/B%20GENERAL/2%20ANNUAL%20RPT/2020/](#)

Sewage Disposal Facility

1. The Sewage Disposal Facility is a non-engineered 3 cell lagoon(photo 1 - 3).
2. )A yellow triangle signs were observed as per Part B: Item 5(photo 3).
3. The sewage lagoon was partially empty at the time of the inspection.(See Photo 1-3).
4. Signs of historical over flow were observed, and observable from satellite photo (photo 1).
5. Signs of Slumping and Erosion were observed. The state of the walls appears to have gone into further decline.
6. On December 1, 2022 RES, Frontdesk (Belinda) Frontdesk.RES@atco.com emailed WRO Monteith the water usage records for the Hamlet of Resolute Bay. In the Excel Spreadsheet, below the bordered recordings, is the ATCO Frontec record of water withdrawal. Zero Litres withdrawn in 2022. Typically this is the record of deposit into the sewage lagoon (photo 6).

☐ 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:

-articulate how you calculate the amount of waste deposited into the Sewage Disposal Facility.

-label the two monitoring posts as listed in the water licence

-provide all requirements for submission of Annual Reports

-repair the walls of the Sewage Disposal Facility

-notify WRO Monteith at Joseph.Monteith@rcaanc-cirnac.gc.ca when decanting the Sewage Disposal Facility.

-report to the Spill Line when overflow is observed at the Sewage Disposal Facility within 24 hrs of noticing occurrence

-the Licensee is reminded to remain diligent to prevent wastes from entering water, the environment, and to adhere to the discharge criteria listed in the licence.

SECTION 3

☐ Comments

☒ Non-Compliance with Act or Licence

☐ Action Required

Part B: Item 5


The Licensee shall, within ninety (90) days after the first visit by an Inspector, following issuance of the Licence, post the necessary signs to identify the stations of the “Monitoring Program”. All signage postings shall be in the Official Languages of Nunavut.

Part D: Item 5

The Licensee shall advise an Inspector at least ten (10) days prior to initiating any decant of the Sewage Disposal Facility.

Part D: Item 6

The Sewage Disposal Facilities shall be maintained to the satisfaction of an Inspector, and operated in such a manner as to prevent erosion and structural failure.

Licensee or Representative	Inspector’s Name
Gord Marinic, Ken Timlin	Joseph Monteith
Signature	Signature
	
Date	Date
	December 13, 2022

CC: Licensing Department, NWB  
Jeremy Fraser, Manager of Field Operations, CIRNAC

Photo Log

Date	Camera	Inspector
July 7, 2022	Galaxy S9	Joseph Monteith

Photo Log #1	Location
Photo 1	ATCO sewage Lagoon, Resolute Bay, NU

3BM-YRB2126

Resolute Bay Waste Water Treatment Lagoon

Legend

📌 Deposit Points, Decant Location and Monitoring Station



Description: Discharge point for non-engineered sewage lagoon.

Photo Log #	Location
Photo 2	ATCO Sewage Lagoon, Resolute Bay, NU



Description: November 24, 2021 Frozen over sewage lagoon. Ice ontop



Photo Log	Location
Photo 3	ATCO Sewage Lagoon, Resolute Bay, NU
	
Description: Sign does not have monitoring station label.	

Photo Log #	Location
Photo 4	ATCO Sewage Lagoon, Resolute Bay, NU
	
Description: Whitening across the walls of sewage lagoon walls, is signs of overflow of sewage lagoon.	



Photo Log #

Location

Photo 5

ATCO Sewage Lagoon, Resolute Bay, NU



Description: Water body requires fording for vehicles to deposit waste into the sewage lagoon.

Photo Log #

Location

Photo 6

ATCO Sewage Lagoon, Resolute Bay, NU

2022 WATER CONSUMPTION

	January	February	March	April	May	June	July	August	September	October	November	December
1	730,945	516,564	891,187	639,482	779,075	184,420	683,877	863,069	796,124	703,632	685,500	
2	546,653	632,785	719,866	675,499	664,410	748,815	732,925	868,211	757,373	673,003	684,686	
3	633,783	725,533	857,771	725,571	732,502	726,253	642,366	892,598	735,833	613,249	686,768	
4	630,601	621,897	782755	658,011	742,140	749,005	794,022	937,906	770,072	709,331	693,164	
5	623,216	676,196	826681	653,791	705,532	739,578	1,024,909	873,217	721,648	672,498	742,141	
6	645,747	655,456	685,479	671,839	688,255	709,392	989,180	835,396	732,653	742,942	662,018	
7	612,049	657,390	726,323	648,025	763,555	739,973	896,751	887,981	726,974	617,989	693,998	
8	689,579	634,293	656,000	687,994	759,972	728,022	899,769	759,306	835,245	618,560	680,184	
9	570,455	649,374	725,501	653,342	3,673,796	717,854	892,326	811,385	726,974	878,995	721,547	
10	628,491	638,528	685,875	681,255	2,312,207	707,673	958,457	790,048	713,408	667,948	648,970	
11	643,627	644,522	713,360	693,882	758,751	730,510	877,565	781,851	677,038	289,821	740,426	
12	645,639	666,560	660,379	707,611	711,284	759,537	917,291	765,586	722,510	1,031,760	684,778	
13	622,713	602,681	684,516	695,249	751,415	769,576	779,175	763,862	585,861	708,383	788,885	
14	651,410	671,114	686,335	691,821	836,113	714,917	881,288	1,001,349	688,307	794,565	534,331	
15	698,890	630,780	702,990	708,369	534,482	682,879	881,864	501,275	672,615	540,752	730,170	
16	607,844	637,425	700,211	701,175	784,798	732,097	1,002,967	752,319	665,874	672,122	681,923	
17	656,608	654,507	711,954	758,883	756,339	738,086	939,636	766,976	646,119	612,444	671,975	
18	648,414	643,853	665,211	686,801	692,810	735,874	898,072	765,147	730,029	682,173	700,036	
19	646,234	716,210	649,866	692,693	763,127	774,514	864,075	743,261	624,018	680,546	728,367	
20	648,373	641,468	726,399	701,805	698,450	741,435	935,000	810,820	649,824	641,349	686,255	
21	639,214	656,541	667,397	712,223	793,428	695,043	901,376	699,304	624,456	682,351	731,253	
22	658,512	636,775	673,347	714,168	763,089	825,444	907,776	725,264	685,461	726,910	652,482	
23	671,402	660,087	679,937	711,000	699,107	41,542	881,014	777,774	619,548	833,134	711,556	
24	647,531	650,183	685,908	726,876	748,070	661,027	964,030	768,958	635,928	690,821	722,570	
25	647,259	674,630	668,430	736,388	751,046	666,915	855,154	723,847	883,223	676,391	809,078	
26	643,002	620,892	728,210	685,018	731,307	737,603	716,184	770,892	525,274	691,307		
27	668,792	639,648	642,668	691,762	725,373	707,682	873,887	1,399,195	682,166	648,717		
28	683,249	844,942	510,438	806,583	741,107	626,692	894,088	773,891	694,152	676,203		
29	719,965		840,236	666,452	1,244,873	641,742	856,750	825,491	694,152	676,203		
30	696,663		685,542		184,420		881,125	857,212		643,768		
31	779,409											
Total Imp G	20,177,309	18,302,834	21,042,140	20,928,890	27,143,671	20,916,615	27,141,800	25,257,307	20,698,138	20,976,411	18,181,032	0
Total Liters	91,728,064	83,206,514	95,659,673	95,144,827	123,397,843	95,089,023	123,389,337	114,822,243	94,095,805	Yearly Total Imp. G	240,766,147	
										95,360,862	82,652,790	0
										Yearly Total Liters	1,094,546,981	

ATCO Truck  
Liters

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Description: ATCO recordings on the below the 2022 water consumption report for the hamlet of Resolute Bay. Zero Litres consumed.

