WATER LICENCE INSPECTION FORM

☒ Original
☐ Follow-Up Report

Licensee	Licensee Representative
Tower Arctic Ltd.	Simon-Pier Laberge
Licence No. / Expiry	**Representative's Title**
8BW-PIM2122	Project Manager
Land / Other Authorizations	**Land / Other Authorizations**
N2019X0012	03QN074
Date of Inspection	**Inspector**
July 23, 2021	Joseph Monteith

Activities Inspected

☒ Camp ☐ Drilling ☐ Mining ☒ Construction ☒ Reclamation ☒ Fuel Storage
☒ Roads/Hauling ☒ Other: Spill Report sites ☐ Other:

Conditions: **A- Acceptable** **U-Unacceptable** **C-Concern** **NI-Not Inspected** **NA- Not applicable**

PART:	Condition	Observation No.*
A: SCOPE, DEFINITIONS AND ENFORCEMENT		
B: GENERAL CONDITIONS	A	
C: CONDITIONS APPLYING TO SECURITY	NI	
D: CONDITIONS APPLYING TO WATER USE	A	1-11
E: CONDITIONS APPLYING TO WASTE DISPOSAL AND MANAGEMENT	A	12-13
F: CONDITIONS APPLYING TO MODIFICATIONS	NI	
G: CONDITIONS APPLYING TO CONSTRUCTION	NI	
H: CONDITIONS APPLYING TO EMERGENCY RESPONSE AND CONTINGENCY PLANNING	A	14
I: CONDITIONS APPLYING TO ABANDONMENT, RECLAMATION AND CLOSURE PLANNING	NA	
J: CONDITIONS APPLYING TO MONITORING	A	
SCHEDULES	A	

**The observation number corresponds with specific comments provided below.*

Samples taken by Inspector:	Location(s):
☐ Yes ☐ No	NW: Latitude: 72° 42' 02.7" N Longitude: 77° 59' 27.6" W NE: Latitude: 72° 42' 08.3" N Longitude: 77° 52' 12.0" W SE: Latitude: 72° 40' 53.9" N Longitude: 77° 52' 12.0" W SW: Latitude: 72° 40' 54.7" N Longitude: 77° 59' 58.0" W

SECTION 1 ☐ **Comments** (s.__) ☐ **Non-Compliance with Act or Licence** (s.__) ☐ **Action Required** (s.__)

BACKGROUND

Construction of the Pond Inlet Marine Infrastructure Project was underway through three open-water seasons, which initiated in 2018. The project was complete by September 2021.

On July 12, 2021, The Nunavut Water Board issued 8BW-PIM2122 to Tower Arctic Ltd. The licence was issued for the purposes of watercourse crossings. No direct water use was authorized.

Led by the Government of Nunavut (GN) - Community and Government Services (CGS), ownership and responsibility will transfer to the GN - Economic Development and Transportation (EDT) once operational.

A map of the construction of the Pond Inlet Marine Infrastructure Project (photo 1)

Inspector Statement

On July 23, 2021, a Water License inspections were conducted by Water Resource Officer(WRO) Joseph Monteith at the site of the Pond Inlet Infrastructure Project, Pond Inlet, Qikiqtani Region, Nunavut, to verify compliance with the terms and conditions of the Water Licence 8BW-PIM2122.

General Condition

1. On Tuesday, April 07, 2021, the Nunavut Water Board uploaded to their FTP site a copy of Tower Arctic's 2020 Annual Report.
ftp://ftp.nwb-oen.ca/registry/8%20MISCELLANEOUS/8B/8BW%20-%20Watercourse/8BW-PIM1821%20Tower%20Arctic%20Ltd/3%20TECH/1%20GENERAL%20(B)/2%20ANNUAL%20RPT/

2. A copy of the Water License was contained in a binder with tabulated with other authorizations at the time of the inspection

Conditions Applying to the Protection of Water

A map of the Stream Crossings – (See photo 2)

3. A total of 7 water crossings along the hauling road from the municipal quarry to the site of the Pond Inlet Infrastructure Project (Photo 2).
4. CS-07 Water Crossing (Photo 3)
5. CS-06 Water Crossing (Photo 4)
6. CS-05 Water Crossing (Photo 5)
7. CS-01 Water Crossing (Photo 6)
8. CS-02 Water Crossing (Photo 7)

Quarry Site

9. Top of the Quarry Pit, looking in (photo 8,9)
10. Inside the Quarry Pit (Photo 8, 9)
11. Quarry Stock Pile, was observed to be inland and 31 metres away from any water body. Located between CS-07 and CS-06 (Photo 13).

Waste

12. An agreement with the community of Pond Inlet was struck to receive all waste from the construction to the community landfill
13. All hazardous waste is contained in sea cans, in secondary containment. To be shipped to an approved Hazardous Waste Storage Facility (Photos 10, 11).

Spill Reports

14. A total of 23 Spill Reports reported for 2021 that Crown Indigenous Relations and Northern Affairs Canada (CIRNAC) is the lead on. The majority of the spills will be closed as they are below the reportable threshold of the NT/NU Spills working Group Agreement. As per the water license, all spills, regardless of size and quantity will be reported; with a follow up written report.

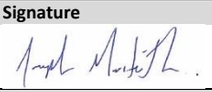
SECTION 2	☐ Comments	☐ Non-Compliance with Act or Licence	☒ Action Required

The following information is a summary of the Actions Required by the licensee to promote and ensure compliance. Please provide a response to the following Actions Required within 30 days of receiving this report proposing timelines to address the concerns noted:

- As per the water license, all spills, regardless of size and quantity will be reported; with a follow up report after 30 days on the status can be summarized in one report for the minor spills to satisfy the requirements of the license, to follow up with a written report. The larger spills which go over the reportable limit will individually require proper follow up, with individual reports.
- Follow the CCME guidelines for proper remediation of a hazardous waste spill.

SECTION 3	☐ Comments	☒ Non-Compliance with Act or Licence	☐ Action Required

Part G: Conditions Applying to Spill Contingency Planning
Item 4;
If during the term of this License, an unauthorized discharge of Waste occurs, or if such a discharge is foreseeable, the Licensee shall:
a. Employ the Spill Contingency Plan;
b. Report the spill immediately to the 24-Hour Spill Line at (867) 920-8130 and to the Inspector at (867) 975-4295; and
c. **For each spill occurrence, submit to the Inspector, no later than thirty (30) days after initially reporting the event, a detailed report that will include the amount and type of spilled product, the GPS location of the spill, and the measures taken to contain and clean-up the spill site.**

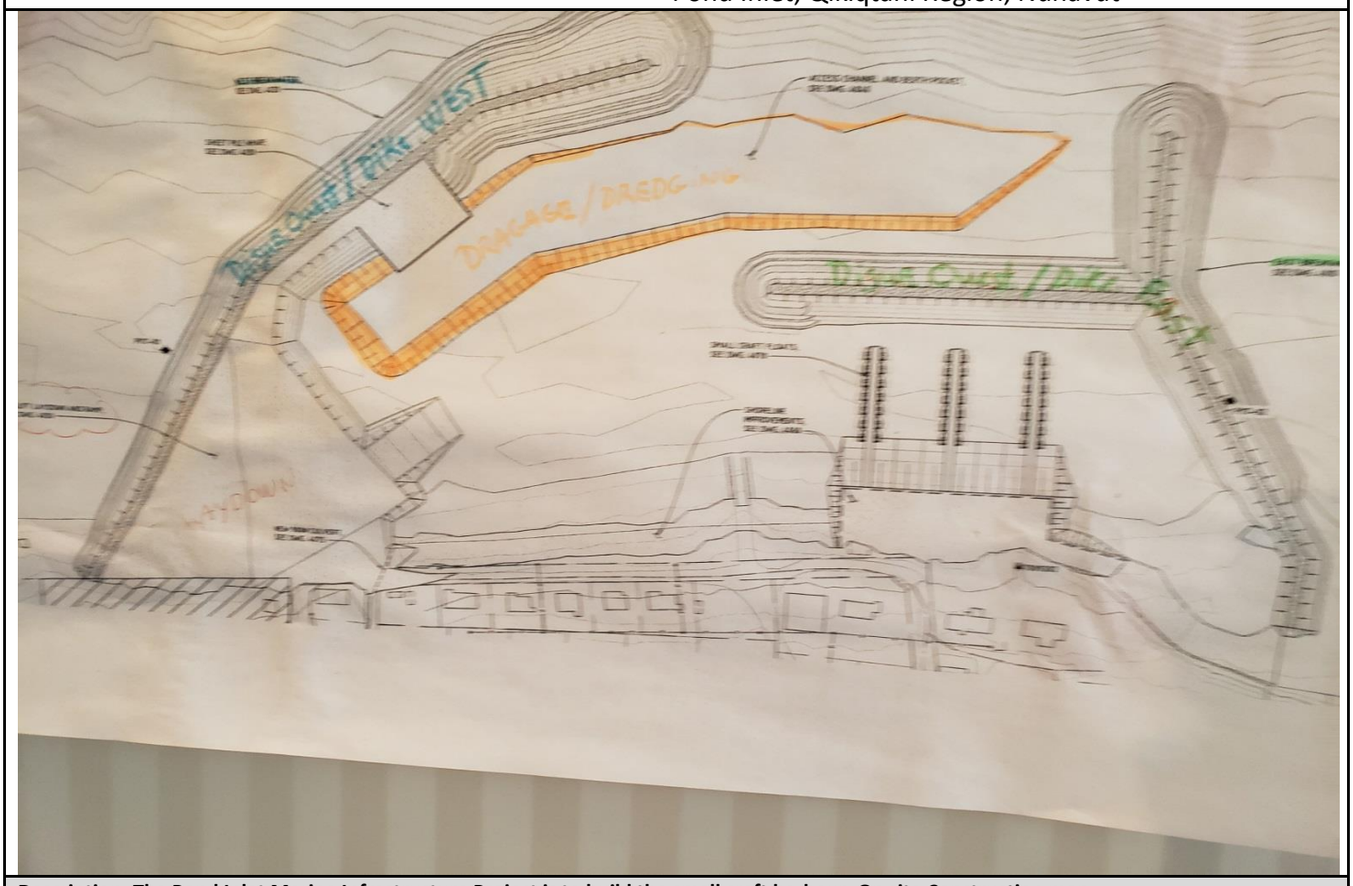
Licensee or Representative	Inspector's Name
	Joseph Monteith
Signature	**Signature**
	
Date	**Date**
	November 29, 2021

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

PHOTO LOG

Date	Camera	Inspector	
July 2021,	Nikon Coolpix	Joseph Monteith	8BW-PIM1821

Photo Log #	Location
Photo 1	Pond Inlet, Qikiqtani Region, Nunavut



Description: The Pond Inlet Marine Infrastructure Project is to build the small craft harbour. On site Construction map.

Photo Log #1	Location
Photo 2	Pond Inlet, Qikiqtani Region, Nunavut

Description: CS-01, and CS-02 were not observed in the 2020 inspection. They were inspected in 2021.

Photo Log #1	Location
Photo 3	Pond Inlet, Qikiqtani Region, Nunavut

Description: Culvert CS-07. The last culvert between the quarry and the construction site.

Photo Log #1	Location
Photo 4	Pond Inlet, Qikiqtani Region, Nunavut

Description: CS-06 Culvert on haul road. Stick protruding out of side of road is location of culvert. No Parallel ditches on downward slope side of road. Parallel ditches observed on higher elevated road.

Photo Log #1	Location
Photo 5	Pond Inlet, Qikiqtani Region, Nunavut

Description: CS-05 Culvert located where the stick is protruding up from the road. Road widened, possibly to allow other heavy equipment to pass. Widened road width approximately 9 metres wide. Culvert is covered by Rip Rap to mitigate any damage to the culvert, and to mitigate warm air melting permafrost.

Photo Log #1	Location
Photo 6	Pond Inlet, Qikiqtani Region, Nunavut

Description: CS-02

Photo Log #1	Location
Photo 7	Pond Inlet, Qikiqtani Region, Nunavut

Description: CS-01

Photo Log #1	Location
Photo 8	Pond Inlet, Qikiqtani Region, Nunavut

Description: Quarry Pit. Raw Water interaction in the pit.

Photo Log #1	Location
Photo 9	Pond Inlet, Qikiqtani Region, Nunavut

Description: At the bottom of the Quarry Pit. Active site of excavation and hauling. Naturally gravity would accumulate raw water in the depression, and interact with heavy equipment. The water undergoes monthly testing, if water exceeds certain parameters . Tower Arctic is obligated to monitor run off and discharges from the quarry sites.

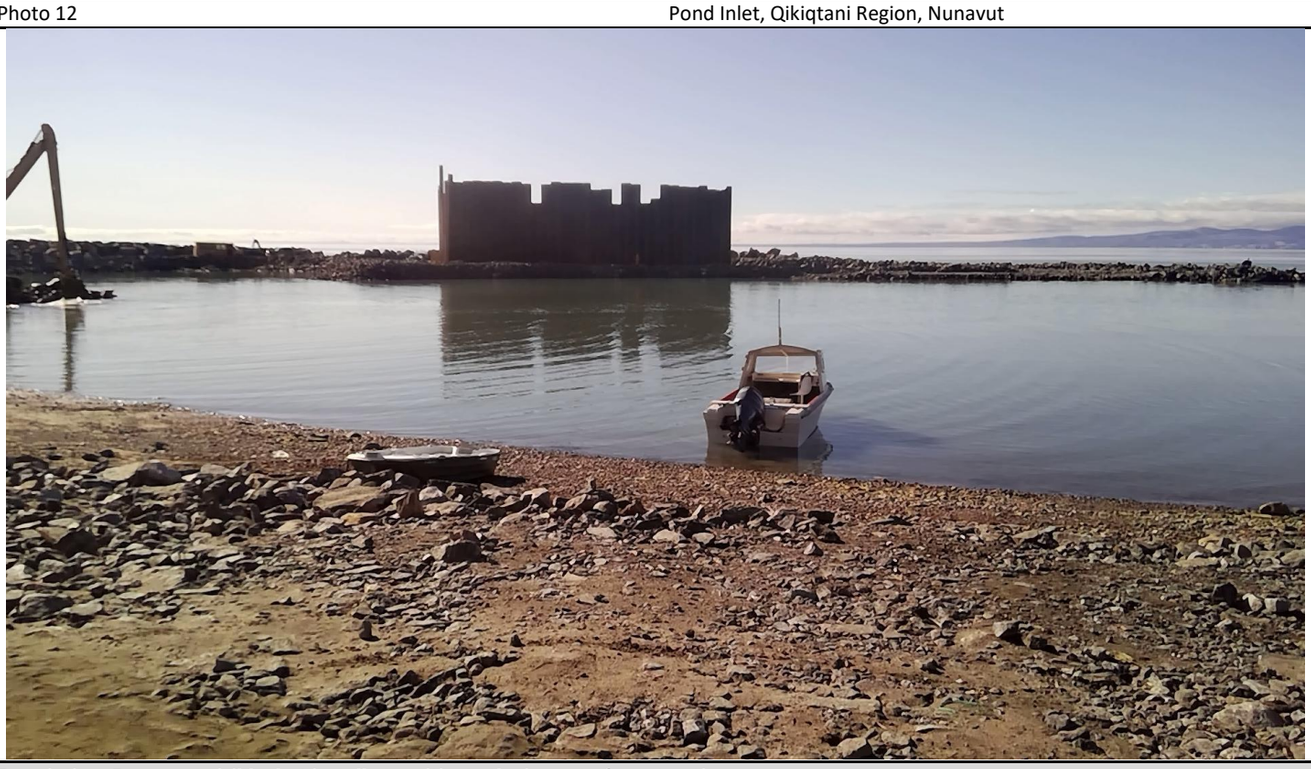
Photo Log #1	Location
Photo 10	Pond Inlet, Qikiqtani Region, Nunavut

Description: Hazardous Waste Disposal facility

Photo Log #1	Location
Photo 11	Pond Inlet, Qikiqtani Region, Nunavut

Description: Hazardous Material transfer station, and temporary storage location.

Photo Log #1	Location
Photo 12	Pond Inlet, Qikiqtani Region, Nunavut



Description: Boom not visible, but installe to mitigate the impact of construction.

Photo Log #1	Location
Photo 13	Pond Inlet, Qikiqtani Region, Nunavut

Description: Quarry Pitt Stock Pile