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May 27, 2023

Licensing
Nunavut Water Board
P.O. Box 119
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Re: April 2023 – Monthly Monitoring Report for Water License 2BE-HOP2232

This report is comprised of monitoring requirements as set out in Part J, Items 2 through 8, and 10 of water license 2BE-HOP2232. Some monitoring requirements stipulated in this Part refer to facilities that have not been constructed, facilities that no longer exist, or facilities where activity is seasonal. Water levels in Windy Lake will be monitored in accordance with Part J, Item 9 during open water season. Sampling locations monitored under this license (seasonally or when facilities are operational) are provided in Figure 1 at the end of this report.

During the period of this report, the focus of activities under the Windy Regional Exploration license was on-land surface exploration drilling, on-ice exploration drilling, water management and environmental compliance.

Part I Conditions Applying to Abandonment and Restoration

No abandonment or restoration work was conducted during the month.

Part J Items 2, 3, 4, 5, 6, 10: Sewage Treatment Effluent, Bulk Fuel Containments, and Quarries

Windy Camp has been closed for operations since October 23, 2008 and New Windy Camp has not been constructed. Therefore, the license requirements relating to the Wastewater Treatment Facility (HOP-2 and HOP-3) are not applicable at this time. HOP-5 (Bulk Fuel Storage – Windy Camp) and HOP-6 (Bulk Fuel Storage Facility – Patch Lake) were dismantled in 2012. HOP-8 (Bulk Fuel Storage Facility at New Windy Camp) has not been constructed.

Water quality sampling and management was not required at HOP-7A, B or D (quarries A, B and D) as no discharge of water occurred from these areas this month.

Part J Item 7: Under-Ice Drilling Samples

Under-ice water quality sampling was conducted this month as on-ice surface exploration drilling was continued in the license area. Results of water quality monitoring are provided in Appendix B attached to this report.

Part J Item 8: Water Use Volumes

Geographical locations for all water sources and usage are maintained on file. All usage from water sources during the month were metered at the source. Daily water usage for the month is presented in Table 1.

Table 1: Daily water usage in cubic meters, April 2023.

Date	Regional Drill Water Usage (m3)
1-Apr	36.44
2-Apr	27.42
3-Apr	18.62
4-Apr	16.71
5-Apr	16.06
6-Apr	25.94
7-Apr	18.84
8-Apr	39.42
9-Apr	24.27
10-Apr	16.41
11-Apr	31.87
12-Apr	16.84
13-Apr	15.73
14-Apr	28.37
15-Apr	23.43
16-Apr	22.60
17-Apr	15.96
18-Apr	31.58
19-Apr	20.64
20-Apr	11.55
21-Apr	13.62
22-Apr	12.49
23-Apr	16.19
24-Apr	11.26
25-Apr	13.33
26-Apr	26.28
27-Apr	12.74
28-Apr	13.62
29-Apr	15.58
30-Apr	24.49
Monthly Total	618.30
Annual Total	2150.98

Water quality monitoring results and volumes extracted from the Windy Lake freshwater intake (HOP-1) for domestic, industrial, dust suppression and winter tracks are presented in the monthly monitoring report for license 2AM-DOH1335, Schedule I for Station ST-7A.

Incident Reporting

One incident pertaining to this licence occurred this month.

NU Spill #2023-161 - On April 24, 2023, at 6:00 am, a spill of approximately 50L of recirculation water occurred at an exploration drill rig on Patch Lake. (Coordinates: 68o3’30”N, 106o33’46”W).

The spill occurred during the casing switch over when the buffer tank overflowed inside the drill and recirculation water made it out onto the ice. This tank had been emptied due to a recent drill move and was therefore empty of any rock cuttings. No cuttings are seen to have made it to the ice.

Following an investigation, it was concluded that the root cause of the spill was operator error as the operator had not closed the inflow valve to the tank while switching his casing, causing the over-accumulation of water in the tank.

Mitigation measures

Once the spill was noticed by the operators, the valve was immediately closed and the area secured. No fluid entered the water body as it was contained on the surface of the ice. The surface was cleared and scraped, and the resulting ice was disposed of with the regular drill cuttings. As some of the water was beneath the drill rig, it had to be cleaned up after the drill had moved. Once the drill was moved, the pad was scraped and the resulting ice was disposed of with the rest of the cuttings.

In order to reduce the risk of reoccurrence, the standard operating procedure was reviewed, and the language clarified to outline the importance of monitoring the inflow valve during the casing switch. Additionally, the procedure and the incident were reviewed with the drilling teams by their supervisor.

Should there be any questions regarding this monthly report, please contact me at guillaume.dumont@agnicoeagle.com.
Yours sincerely,

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Figure 1. 2BE-HOP2232 SNP Monitoring Locations