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October 31, 2019

Licensing
Nunavut Water Board
P.O. Box 119
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Re: September 2019 – Monthly Monitoring Report for Water Licence 2BB-BOS1727

This report is comprised of monitoring requirements as set out in Part J of water licence 2BB-BOS1727. Boston Camp is used to support surface exploration programs.

During the subject focus of this report, the Boston Camp was used to support a regional surface exploration program conducted in the 2BE-HOP1222 licence area. No surface exploration drilling was conducted under the 2BB-BOS1727 licence this month.

Sampling locations monitored under this licence (seasonally or when facilities are operational) are provided in Figure 1 at the end of this report.

Part J Item 2: Water Use Volumes

In September, water was extracted from Aimaokatalok Lake for domestic use at Boston Camp. All usage from water sources during the month were metered at the source. Daily water usage for the month is presented in Table 1.

Volumes of water used to support the regional surface exploration program are presented in the monthly monitoring report for licence 2BE-HOP1222.

Results of samples collected in September under monitoring station BOS-1A are provided in Appendix A.

Table 1: Daily water usage in cubic meters, September 2019.

Date	Domestic Water Consumption (m³)	Drill Water Usage Total (m³)	Total Daily Usage (m³)
01-Sep	6.4	0	6.4
02-Sep	5.9	0	5.9
03-Sep	4.5	0	4.5
04-Sep	5.5	0	5.5
05-Sep	6.3	0	6.3
06-Sep	5.3	0	5.3
07-Sep	6.8	0	6.8
08-Sep	5.6	0	5.6
09-Sep	7.1	0	7.1
10-Sep	6.0	0	6.0
11-Sep	12.5	0	12.5
12-Sep	6.7	0	6.7
13-Sep	5.7	0	5.7
14-Sep	6.0	0	6.0
15-Sep	13.2	0	13.2
16-Sep	6.5	0	6.5
17-Sep	6.2	0	6.2
18-Sep	5.5	0	5.5
19-Sep	2.0	0	2.0
20-Sep	8.1	0	8.1
21-Sep	1.9	0	1.9
22-Sep	6.6	0	6.6
23-Sep	6.4	0	6.4
24-Sep	6.8	0	6.8
25-Sep	5.5	0	5.5
26-Sep	5.0	0	5.0
27-Sep	5.0	0	5.0
28-Sep	5.5	0	5.5
29-Sep	4.5	0	4.5
30-Sep	5.5	0	5.5
Monthly Total	184.6	0	184.6
Annual Total	398.6	0	398.6

Part J Item 3: Minewater Discharge Volumes

Minewater was not pumped from underground during this period.

Part J Items 4 and 5: Sewage Disposal Facility Daily Effluent Discharge and Sewage Sludge

Notification of discharge from the Sewage Disposal Facility was provided to the Inspector on May 16. Effluent discharge from the Sewage Disposal Facility (BOS-3) began on July 13 after receiving compliant effluent quality results for this facility. These results met the discharge criteria outlined in Part D Item 14 of the licence.

A total of 161 m³ of treated effluent was discharged to tundra this month.

No sludge was removed from the sewage disposal facility in September.

Part J Items 5: Daily Quantities of Effluent Discharged – Containment Pond, Bulk Fuel Storage, Landfarm and Portal Decline

Notification of discharge for the Containment Pond (BOS-2), the Bulk Fuel Storage facility (BOS-5) and the Portal Decline (BOS-9) was provided to the Inspector on May 16. Effluent quality was confirmed to meet discharge criteria prior to discharge from these facilities.

No effluent was discharged to the tundra from the Containment Pond (BOS-2) in September.

No effluent was discharged to tundra from the Bulk Fuel Storage facility (BOS-5) this month.

No effluent was discharged from the Landfarm (BOS-6) this month.

No effluent was discharged to tundra from the Portal Decline (BOS-9) in September.

Part J Items 6 and 7: Water Source and Waste Disposal Coordinates

GPS coordinates of locations of water sources and waste associated with camp and drilling activities are kept on file.

Waste generated at Boston Camp in September was sorted and stored as per the Hazardous and Non-Hazardous Waste Management Plans. This waste will be stored at Boston Camp and transported to the Doris Waste Management Facility via winter track in 2020.

Part J Items 8, 11 and 12 (also Part D Items 6, 17 and 19): Sampling at Containment Pond, Bulk Fuel Storage, Landfarm and Portal Decline

No effluent quality samples were collected from the Containment Pond (BOS-2) in September.

Effluent quality samples collected from the Bulk Fuel Storage Facility (BOS-5) in September exceeded the maximum concentration in a grab sample for Arsenic. This water was transferred to the Containment Pond for treatment, however the onset of

freezing conditions prevented further treatment, sampling and discharge from the containment pond.

No effluent quality samples were collected from the Landfarm (BOS-6) in September.

Effluent quality samples collected from the pooled water at the Portal Decline (BOS-9) in September exceeded the maximum concentration in a grab sample for Arsenic. The onset of freezing conditions prevented treatment, sampling and discharge from the Portal Decline.

Part J Item 9: Sewage Disposal Facility Effluent

Effluent samples were taken on September 11 at monitoring station BOS-3 (Sewage Disposal Facility). Results of this sample were below the discharge criteria outlined in Part D Item 14 of the licence.

No samples were taken at monitoring station BOS-4 as no flow of treated sewage effluent was observed at the point prior to entry into Aimaokatalok Lake. All effluent had effectively been absorbed into the tundra prior to this monitoring station.

Part J Item 11: Seepage Monitoring

Seepage at Boston (BOS-8) is monitored seasonally when water is available to sample. No seepage was observed at the BOS-8 monitoring locations during the month of September and no samples were collected.

Part J Item 14 (also Part F Item 7): Under-Ice Water Quality Sampling

Not applicable as on-ice drilling did not occur pertaining to licence 2BB-BOS1727.

Incident Reporting

No incidents pertaining to this licence occurred this month.

Should there be any questions regarding this monthly report, please contact enviro@tmacresources.com.

Yours sincerely,



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Figure 1. 2BB-BOS1727 SNP Monitoring Locations

