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**Sent by Email**

**January 29, 2020**

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

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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 period of this report, the focus of activities at Boston Camp were on seasonal shutdown of the camp facilities. Boston Camp was shutdown for the remainder of the winter season on December 9, 2019, primarily due to power supply issues. Waste and equipment backhauls were conducted after December 9<sup>th</sup>, with staff based out of Doris Camp.

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 December, water was extracted from Aimaokatalok Lake for domestic use at Boston Camp. As the camp was shut down in early December, water usage was minimal for the month. All usage from water sources during the month were metered at the source. Daily water usage for the month is presented in Table 1.

Due to the unforeseen timing of the camp shutdown and limited days of water use, water quality samples were not collected at SNP station BOS-1a.

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

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

<b>Date</b>	<b>Domestic Water Consumption (m<sup>3</sup>)</b>	<b>Drill Water Usage Total (m<sup>3</sup>)</b>	<b>Total Daily Usage (m<sup>3</sup>)</b>
01-Dec	5.1	0	5.1
02-Dec	5.0	0	5.0
03-Dec	3.1	0	3.1
04-Dec	0.0	0	0.0
05-Dec	0.0	0	0.0
06-Dec	0.0	0	0.0
07-Dec	0.0	0	0.0
08-Dec	0.0	0	0.0
09-Dec	0.0	0	0.0
10-Dec	0.0	0	0.0
11-Dec	0.0	0	0.0
12-Dec	0.0	0	0.0
13-Dec	0.0	0	0.0
14-Dec	0.0	0	0.0
15-Dec	0.0	0	0.0
16-Dec	0.0	0	0.0
17-Dec	0.0	0	0.0
18-Dec	0.0	0	0.0
19-Dec	0.0	0	0.0
20-Dec	0.0	0	0.0
21-Dec	0.0	0	0.0
22-Dec	0.0	0	0.0
23-Dec	0.0	0	0.0
24-Dec	0.0	0	0.0
25-Dec	0.0	0	0.0
26-Dec	0.0	0	0.0
27-Dec	0.0	0	0.0
28-Dec	0.0	0	0.0
29-Dec	0.0	0	0.0
30-Dec	0.0	0	0.0
31-Dec	0.0	0	0.0
<b>Monthly Total</b>	<b>13.2</b>	<b>0</b>	<b>13.2</b>
<b>Annual Total</b>	<b>721.5</b>	<b>0</b>	<b>721.5</b>

**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 effluent quality results compliant with the criteria outlined in Part D Item 14 of the licence. Treated effluent discharge ceased on December 2, 2019.

A total of 5.3 m<sup>3</sup> of treated effluent was discharged to tundra this month.

A total of 9 m<sup>3</sup> of sludge was removed from the sewage disposal facility in December.

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

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

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) this month.

**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 December 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.

During the camp shutdown, liquid waste was prioritized for transportation to Doris Camp for disposal. 9 m<sup>3</sup> of sewage sludge and 13 m<sup>3</sup> of brine water was backhauled to the Doris Camp for disposal.

**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) this month.

No effluent quality samples were collected from the Bulk Fuel Storage Facility (BOS-5) this month.

No effluent quality samples were collected from the Landfarm (BOS-6) this month.

No effluent quality samples were collected from the pooled water at the Portal Decline (BOS-9) this month.

**Part J Item 9: Sewage Disposal Facility Effluent**

Due to the unforeseen timing of the camp shutdown, water quality samples were not collected at SNP station BOS-3. Treated effluent discharge ceased on December 2, 2019.

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 December 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](mailto:enviro@tmacresources.com).

Yours sincerely,



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**Figure 1. 2BB-BOS1727 SNP Monitoring Locations**

