

95 Wellington Street W Suite 1010 P.O. Box 44 Toronto, Ontario M5J 2N7 416-628-0216

August 28, 2015

Phyllis Beaulieu Manager of Licensing Nunavut Water Board P.O. Box 119 Gjoa Haven, NU X0B 1J0

Re: July 2015 - Monthly Monitoring Report for Water Licence 2BB-BOS1217

This report is comprised of monitoring requirements as set out in Part J of water licence 2BB-BOS1217. Boston Camp was shut down in November 2011 and has not been reopened since that time. Activities at Boston are focussed on seasonal water management and licence compliance; the site remains in a Care and Maintenance status. Sampling locations monitored under this licence (seasonally or when facilities are operational) are provided in Figure 1.

Part J Item 2: Water Use Volumes

No water was used as the camp was not operational.

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

Effluent was not discharged at BOS-3 and no sludge was removed from the sewage disposal facility. The camp was not operational.

<u>Part J Items 5: Daily Quantities of Effluent Discharged – Containment Pond, Bulk Fuel Storage and Landfarm</u>

A discharge notification for these facilities was provided to the Inspector on May 13, 2015. In July, 14.0 m³ of water from the BOS-2C Containment Pond was treated through an oil-water separator and discharged directly to tundra and 52.2 m³ of water was transferred from the Bulk Fuel Storage facility (BOS-5) to the Containment Pond (BOS-2C). No water was discharged from BOS-6 (Landfarm) this month. The total surface runoff discharged directly to tundra from the portal (BOS-2P) was 207.4 m³. Visual observations were made during discharges to tundra and no erosion was noted.

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. At this time, there are no water sources being used and no wastes being produced.

Part J Items 8 and 11 (also Part D Items 9 and 19): Sampling at Containment Pond, Minewater, Bulk Fuel Storage, and Landfarm

Water quality samples were collected from BOS-2C (Containment Pond), BOS-2P (Portal) and BOS-5 (Bulk Fuel Storage) facilities during the month. No samples were collected from BOS-6 (Landfarm); there was no water at this facility to sample. Samples collected from BOS-2C include parameter requirements for monitoring station BOS-5 from Part D, Item 19 of the licence, as the containment pond facility has been utilized as a temporary holding location for effluent from the bulk fuel storage facility. Water quality for discharges of surface runoff accumulated at the portal (BOS-2P) were compared with criteria for discharges from Containment Pond BOS-2C Part D, Item 9 to facilitate direct discharge to tundra when complaint. Results for all July sampling are presented in Tables 1 through 3 below.

Water in the Containment Pond BOS-2C did not meet the more stringent Part D, Item 19 (BOS-5) discharge criteria for lead (0.001mg/L). On July 18th, 2015 the Inspector authorized a discharge from the Containment Pond BOS-2C for water meeting the discharge criteria for lead as outlined in the 2AM-DOH1323 licence (0.01 mg/L) for bulk fuel storage facilities (see the July 2015 AANDC Inspection Report located here: ftp://ftp.nwb-oen.ca/1%20PRUC%20PUBLIC%20REGISTRY/2%20MINING%20MILLING/2B/2BB%20-%20Bulk%20Sampling/2BB-

BOS1217/3%20TECH/0%20SCOPE%20ENFORCE%20%28A%29/1%20INSPECTION/2015/150730%202BB-BOS1217%20Water%20Licence%20Inspection%20Form-IACE.pdf).

14.0 m3 of water was discharged from BOS-2C in July.

Water quality samples collected July 23rd from BOS-5 bulk fuel storage facility indicated this water was slightly higher than the amended discharge criteria for lead. All water in BOS-5 was pumped to Containment Pond BOS-2C for temporary holding. This water will be treated and re-sampled prior to any discharges.

Water in BOS-2P (Portal) was compliant with Part D, Item 9 criteria, and 207.4 m³ was discharged directly to tundra in July.

Table 1: Water Quality Data Summary for BOS-2C (Containment Pond), July 2015

		Sample ID	BOS2C-21JUL15 BOS2C-22JUL15		Part D Item 9	
	ALS ID		L1647871-1	L1647871-2	Maximum Average	Maximum
		Date Sampled	7/21/2015 4:45:00 PM	7/22/2015 11:20:00 AM	Concentration	Concentration in any
Parameter	Units	Detection Limit	Water	Water	(mg/L)	Grab Sample (mg/L)
Conductivity	uS/cm	2	921	928		
Hardness (as CaCO3)	mg/L	0.5	478	480		
pH	рН	0.1	8.25	8.41	6.0 - 9.5	6.0 - 9.5
Total Suspended Solids	mg/L	3	<3.0	<3.0	25	50
Alkalinity, Total (as CaCO3)	mg/L	1	82.3	83.8		
Ammonia, Total (as N)	mg/L	0.005	-	-		
Nitrate (as N)	mg/L	0.25	<0.010 *	<0.010 *		
Nitrite (as N)	mg/L	0.05	<0.0020 *	<0.0020 *		
Sulfate (SO4)	mg/L	5	445	410		
Aluminum (Al)-Total	mg/L	0.005	0.0069	0.0089		
Antimony (Sb)-Total	mg/L	0.0005	0.00332	0.00338		
Arsenic (As)-Total	mg/L	0.0005	0.0584	0.0566	0.5	1.00
Barium (Ba)-Total	mg/L	0.02	< 0.020	< 0.020		
Beryllium (Be)-Total	mg/L	0.001	< 0.0010	< 0.0010		
Boron (B)-Total	mg/L	0.1	< 0.10	<0.10		
Cadmium (Cd)-Total	mg/L	0.00001	0.0000057	0.0000058		
Calcium (Ca)-Total	mg/L	0.1	114	115		
Chromium (Cr)-Total	mg/L	0.001	< 0.0010	< 0.0010		
Cobalt (Co)-Total	mg/L	0.0003	0.00231	0.00165		
Copper (Cu)-Total	mg/L	0.001	< 0.0010	< 0.0010	0.30	0.60
Iron (Fe)-Total	mg/L	0.03	0.065	0.052		
Lead (Pb)-Total	mg/L	0.0005	0.0015	0.00133	0.20	0.4/0.01**
Lithium (Li)-Total	mg/L	0.005	0.014	0.014		
Magnesium (Mg)-Total	mg/L	0.1	46.7	47.1		
Manganese (Mn)-Total	mg/L	0.0003	0.0267	0.00981		
Mercury (Hg)-Total	mg/L	0.00001	< 0.0000050	< 0.0000050		
Molybdenum (Mo)-Total	mg/L	0.001	0.0017	0.0019		
Nickel (Ni)-Total	mg/L	0.001	0.0149	0.0148	0.50	1.00
Potassium (K)-Total	mg/L	2	28	27.6		
Selenium (Se)-Total	mg/L	0.0001	0.000168	0.000167		
Silver (Ag)-Total	mg/L	0.00002	< 0.000020	< 0.000020		
Sodium (Na)-Total	mg/L	2	10	9.9		
Thallium (Tl)-Total	mg/L	0.0002	< 0.00020	< 0.00020		
Tin (Sn)-Total	mg/L	0.0005	< 0.00050	< 0.00050		
Titanium (Ti)-Total	mg/L	0.01	< 0.010	< 0.010		_
Uranium (U)-Total	mg/L	0.0002	0.00058	0.00053		
Vanadium (V)-Total	mg/L	0.001	0.0006	0.00062		
Zinc (Zn)-Total	mg/L	0.005	0.0063	< 0.0050	0.50	1.00

Date Sampled 7/21/2015 4:45:00 PM 7/22/2015 11:20:00 AM Concentration in an Grab Sample (mg/L)		Sample ID		BOS2C-21JUL15	BOS2C-22JUL15	Part D Item 9	
Date Sampled Visit Detection Limit Water Water William Grab Sample (mg/L)		ALS ID		L1647871-1	L1647871-2	Maximum Average	Maximum
Dil and Grease mg/L 5 <5.0 <5.0 No No No visible sheen No visible sheen			Date Sampled	7/21/2015 4:45:00 PM	7/22/2015 11:20:00 AM		Concentration in any Grab Sample (mg/L)
Oil And Grease (Visible sheen) n/a NO NO No visible sheen No visible sheen Phenols (4AAP) mg/L 0.001 <0.0010 <0.0010 0.0010 Benzene mg/L 0.0005 <0.00050 <0.00050 0.037*** Eibtylbenzene mg/L 0.0005 <0.00050 <0.00050 0.009** Methyl t-buyl ether (MTBE) mg/L 0.0005 <0.00050 <0.00050 <0.00050 Foluene mg/L 0.0005 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.000050 <0.000050 <0.000050 <0.000050 <0.000050 <0.000050 <0.000050 <0.000050<	Parameter	Units	Detection Limit	Water	Water	(mg/L)	
Sheen	Oil and Grease	mg/L	5	<5.0	<5.0		15**
Sheen	Oil And Grease (Visible		2/2	NO	NO	No visible sheep	No visible sheep
$\begin{array}{llllllllllllllllllllllllllllllllllll$	Sheen)		·			NO VISIBLE SHEEH	NO VISIBLE SHEEH
Ethylbenzene mg/L 0.0005	Phenols (4AAP)	mg/L	0.001	0.00-0			
Methyl t-buyl ether (MTBE) mg/L 0.0005 <0.00050 <0.00050 0.00050 0.0002*** Toluene	Benzene	mg/L		< 0.00050	< 0.00050		0.37**
Foluene	Ethylbenzene	mg/L	0.0005	< 0.00050	< 0.00050		0.09**
ortho-Xylene mg/L 0.0005 <0.00050 <0.00050 meta-& para-Xylene mg/L 0.0005 <0.00050	Methyl t-butyl ether (MTBE)	mg/L	0.0005	< 0.00050	< 0.00050		
meta	Toluene	mg/L	0.0005	< 0.00050	< 0.00050		0.002**
Xylenes mg/L 0.00075 <0.00075 <0.00075 4-Bromofluorobenzene (SS) % Surrogate 101 98.9 4-Difluorobenzene (SS) % Surrogate 99.8 100.6 1PH10-32 mg/L 1 <1.0	ortho-Xylene	mg/L	0.0005	< 0.00050	< 0.00050		
A-Bromofluorobenzene (SS)	meta- & para-Xylene	mg/L	0.0005	< 0.00050	< 0.00050		
	Xylenes	mg/L	0.00075	< 0.00075	< 0.00075		
PPH10-32	4-Bromofluorobenzene (SS)		Surrogate	101	98.9		
Surrogate 83 75.2	1,4-Difluorobenzene (SS)	%	Surrogate	99.8	100.6		
Acenaphthene mg/L 0.00001 <0.000010 <0.000010 Acenaphtylene mg/L 0.000001 <0.000010	TPH10-32	mg/L	1	<1.0	<1.0		
Acenaphthylene mg/L 0.00001 <0.000010 <0.000010 Acridine mg/L 0.00001 <0.000010	2-Bromobenzotrifluoride	%	Surrogate	83	75.2		
Acridine mg/L 0.00001 <0.000010 <0.000010 Anthracene mg/L 0.00001 <0.000010	Acenaphthene	mg/L	0.00001	< 0.000010	< 0.000010		
Anthracene mg/L 0.00001 <0.000010 <0.000010 Benz(a)anthracene mg/L 0.00001 <0.000010	Acenaphthylene	mg/L	0.00001	< 0.000010	< 0.000010		
Benz(a)anthracene mg/L 0.00001 <0.000010 <0.000010 <0.000010	Acridine	mg/L	0.00001	< 0.000010	< 0.000010		
Benzo(a)pyrene mg/L 0.00001 <0.000010 <0.000010 Benzo(b)fluoranthene mg/L 0.00001 <0.000010	Anthracene	mg/L	0.00001	< 0.000010	< 0.000010		
Benzo(a)pyrene mg/L 0.00001 <0.000010 <0.000010 Benzo(b)fluoranthene mg/L 0.00001 <0.000010	Benz(a)anthracene	mg/L	0.00001	< 0.000010	< 0.000010		
Benzo(b)fluoranthene mg/L 0.00001 <0.000010 <0.000010 Benzo(g,h,i)perylene mg/L 0.00001 <0.000010	Benzo(a)pyrene	0	0.00001	< 0.000010	< 0.000010		
Benzo(g,h,i)perylene mg/L 0.00001 <0.000010 <0.000010 Benzo(k)fluoranthene mg/L 0.00001 <0.000010	Benzo(b)fluoranthene	mg/L	0.00001	< 0.000010	< 0.000010		
Benzo(k)fluoranthene mg/L 0.00001 <0.000010 <0.000010 Chrysene mg/L 0.00001 <0.000010	Benzo(g,h,i)perylene	mg/L	0.00001	< 0.000010	< 0.000010		
Chrysene mg/L 0.00001 <0.000010 <0.000010 Dibenz(a,h)anthracene mg/L 0.00001 <0.000010	Benzo(k)fluoranthene		0.00001	< 0.000010	< 0.000010		
Fluoranthene mg/L 0.00001 <0.000010 <0.000010 Fluorene mg/L 0.00001 <0.000010 <0.000010 Indeno(1,2,3-c,d)pyrene mg/L 0.00001 <0.000010 Naphthalene mg/L 0.00005 <0.000050 <0.000050 Phenanthrene mg/L 0.00002 <0.000020 <0.000020 Pyrene mg/L 0.00001 <0.000010 <0.000010 Quinoline mg/L 0.00001 <0.000050 Acridine d9 % Surrogate 84.8 86 Chrysene d12 % Surrogate 72.3 76.4 Naphthalene d8 % Surrogate 97.4 97.3	Chrysene	0	0.00001	< 0.000010	< 0.000010		
Fluoranthene mg/L 0.00001 <0.000010 <0.000010 Fluorene mg/L 0.00001 <0.000010 <0.000010 Indeno(1,2,3-c,d)pyrene mg/L 0.00001 <0.000010 Naphthalene mg/L 0.00005 <0.000050 <0.000050 Phenanthrene mg/L 0.00002 <0.000020 <0.000020 Pyrene mg/L 0.00001 <0.000010 <0.000010 Quinoline mg/L 0.00001 <0.000050 Acridine d9 % Surrogate 84.8 86 Chrysene d12 % Surrogate 72.3 76.4 Naphthalene d8 % Surrogate 97.4 97.3	Dibenz(a,h)anthracene	mg/L	0.00001	< 0.000010	< 0.000010		
Indeno(1,2,3-c,d)pyrene mg/L 0.00001 <0.000010 <0.000010 Naphthalene mg/L 0.00005 <0.000050	Fluoranthene	U-	0.00001	< 0.000010	< 0.000010		
Indeno(1,2,3-c,d)pyrene mg/L 0.00001 <0.000010 <0.000010 Naphthalene mg/L 0.00005 <0.000050	Fluorene	mg/L	0.00001	< 0.000010	< 0.000010		
Naphthalene mg/L 0.00005 <0.000050 <0.000050 Phenanthrene mg/L 0.00002 <0.000020	Indeno(1,2,3-c,d)pyrene		0.00001	< 0.000010	< 0.000010		
Phenanthrene mg/L 0.00002 <0.000020 <0.000020 Pyrene mg/L 0.00001 <0.000010	Naphthalene	0'	0.00005	< 0.000050	< 0.000050		
Pyrene mg/L 0.00001 <0.000010 <0.000010 Quinoline mg/L 0.00001 <0.000050	Phenanthrene	U-					
Quinoline mg/L 0.00001 <0.000050 <0.000050 Acridine d9 % Surrogate 84.8 86 Chrysene d12 % Surrogate 72.3 76.4 Naphthalene d8 % Surrogate 97.4 97.3	Pyrene	0			I .		
Acridine d9 % Surrogate 84.8 86 Chrysene d12 % Surrogate 72.3 76.4 Naphthalene d8 % Surrogate 97.4 97.3	Quinoline	0					
Chrysene d12 % Surrogate 72.3 76.4 Naphthalene d8 % Surrogate 97.4 97.3	Acridine d9						
Naphthalene d8 % Surrogate 97.4 97.3	Chrysene d12						
	Naphthalene d8						
	Phenanthrene d10		Surrogate	89	92.8		

Bold/shading indicates exceedance of applicable criteria (see footnotes)

* Detection limit adjusted due to sample matrix effects.

** Part D, Item 19 (BOS-5) discharge criteria and amended criteria for lead (0.01mg/L) authorized by the Inspector on July 20, 2015.

Table 2: Water Quality Data Summary for BOS-5 (Bulk Fuel Storage), July 2015

		Sample ID	BOS5-23JUL15	Part D Item 19	
		ALS ID	L1647864-1	Maximum	
		Date Sampled	7/23/2015 1:45:00 PM	Concentration in any	
Parameter	Units	Detection Limit	Water	Grab Sample (mg/L)	
Conductivity	uS/cm	2	976		
Hardness (as CaCO3)	mg/L	0.5	558		
рН	рН	0.1	7.6		
Alkalinity, Total (as CaCO3)	mg/L	1	57.2		
Nitrate (as N)	mg/L	0.25	0.268		
Nitrite (as N)	mg/L	0.05	0.0163		
Sulfate (SO4)	mg/L	5	465		
Aluminum (Al)-Total	mg/L	0.005	0.0812		
Antimony (Sb)-Total	mg/L	0.0005	0.00642		
Arsenic (As)-Total	mg/L	0.0005	0.361		
Barium (Ba)-Total	mg/L	0.02	< 0.020		
Beryllium (Be)-Total	mg/L	0.001	< 0.0010		
Boron (B)-Total	mg/L	0.1	0.26		
Cadmium (Cd)-Total	mg/L	0.00001	0.0000824		
Calcium (Ca)-Total	mg/L	0.1	143		
Chromium (Cr)-Total	mg/L	0.001	< 0.0010		
Cobalt (Co)-Total	mg/L	0.0003	0.0566		
Copper (Cu)-Total	mg/L	0.001	0.0063		
Iron (Fe)-Total	mg/L	0.03	0.295		
Lead (Pb)-Total	mg/L	0.0005	0.031	0.0010/0.01+	
Lithium (Li)-Total	mg/L	0.005	0.0092		
Magnesium (Mg)-Total	mg/L	0.1	48.9		
Manganese (Mn)-Total	mg/L	0.0003	0.103		
Mercury (Hg)-Total	mg/L	0.00001	< 0.0000050		
Molybdenum (Mo)-Total	mg/L	0.001	0.0033		
Nickel (Ni)-Total	mg/L	0.001	0.22		
Potassium (K)-Total	mg/L	2	7.9		
Selenium (Se)-Total	mg/L	0.0001	0.000345		
Silver (Ag)-Total	mg/L	0.00002	< 0.000020		
Sodium (Na)-Total	mg/L	2	7.4		
Thallium (Tl)-Total	mg/L	0.0002	<0.00020		
Tin (Sn)-Total	mg/L	0.0005	< 0.00050		
Titanium (Ti)-Total	mg/L	0.01	< 0.010		
Uranium (U)-Total	mg/L	0.0002	<0.00020		
Vanadium (V)-Total	mg/L	0.001	< 0.00050		
Zinc (Zn)-Total	mg/L	0.005	0.0094		
Oil and Grease	mg/L	5	<5.0	15	
Oil And Grease (Visible Sheen)	,	n/a	NO	No visible sheen	
Phenols (4AAP)	mg/L	0.001	0.0048 *	0.27-	
Benzene	mg/L	0.0005	<0.00050	0.370	
Ethylbenzene	mg/L	0.0005	<0.00050	0.090	
Methyl t-butyl ether (MTBE)	mg/L	0.0005	<0.00050	0.002	
Toluene	mg/L	0.0005	<0.00050	0.002	
ortho-Xylene	mg/L	0.0005	<0.00050		
meta- & para-Xylene	mg/L	0.0005	<0.00050		
Xylenes	mg/L	0.00075	<0.00075		
TPH10-32	mg/L	1	<1.0		
Acenaphthene	mg/L	0.00001	<0.000030 **		
Acenaphthylene	mg/L	0.00001	<0.000010		
Acridine	mg/L	0.00001	<0.000010		
Anthracene	mg/L	0.00001	<0.000010		
Benz(a)anthracene	mg/L	0.00001	<0.000010		
Benzo(a)pyrene	mg/L	0.00001	<0.000010		
Benzo(b)fluoranthene	mg/L	0.00001	<0.000010		
Benzo(g,h,i)perylene	mg/L	0.00001	<0.000010		
Benzo(k)fluoranthene	mg/L	0.00001	<0.000010		
Chrysene Dibenz(a,h)anthracene	mg/L mg/L	0.00001 0.00001	<0.000010 <0.000010		

		Sample ID	BOS5-23JUL15	Part D Item 19
		ALS ID	L1647864-1	Maximum
		Date Sampled	7/23/2015 1:45:00 PM	Concentration in any
Parameter	Units	Detection Limit	Water	Grab Sample (mg/L)
Fluoranthene	mg/L	0.00001	< 0.000010	
Fluorene	mg/L	0.00001	< 0.000010	
Indeno(1,2,3-c,d)pyrene	mg/L	0.00001	< 0.000010	
Naphthalene	mg/L	0.00005	0.000088 ^	
Phenanthrene	mg/L	0.00002	< 0.000020	
Pyrene	mg/L	0.00001	< 0.000010	
Quinoline	mg/L	0.00001	< 0.000050	

Bold/shading indicates exceedance of Part D Item 19 Maximum Concentration in a Grab Sample.

Table 3: Water Quality Data Summary for BOS-2P (Portal), July 2015

Sample ID			BOS2P-21JUL15	BOS2P-22JUL15	Part D Item 9**	
ALS ID			L1647928-1	L1647928-2		
Date Sampled		7/21/2015 4:20:00 PM	7/22/2015 11:28:00 AM	Maximum Average Concentration	Maximum Concentration in any Grab Sample	
Parameter	Units	Detection Limit	Water	Water	(mg/L)	(mg/L)
Hardness (as CaCO3)	mg/L	0.5	134	137		
pН	рΗ	0.1	7.65	7.67	6.0 - 9.5	6.0 - 9.5
Total Suspended Solids	mg/L	3	<3.0	<3.0	25	50
Aluminum (Al)-Total	mg/L	0.005	0.0154	0.0261		
Antimony (Sb)-Total	mg/L	0.0005	0.00117	0.00117		
Arsenic (As)-Total	mg/L	0.0005	0.0444	0.047	0.5	1.0
Barium (Ba)-Total	mg/L	0.02	< 0.020	< 0.020		
Beryllium (Be)-Total	mg/L	0.001	< 0.0010	< 0.0010		
Boron (B)-Total	mg/L	0.1	< 0.10	< 0.10		
Cadmium (Cd)-Total	mg/L	0.00001	0.0000111	0.00001		
Calcium (Ca)-Total	mg/L	0.1	35.4	36.2		
Chromium (Cr)-Total	mg/L	0.001	< 0.0010	< 0.0010		
Cobalt (Co)-Total	mg/L	0.0003	0.0127	0.0131		
Copper (Cu)-Total	mg/L	0.001	0.0022	0.0022	0.30	0.60
Iron (Fe)-Total	mg/L	0.03	0.098	0.114		
Lead (Pb)-Total	mg/L	0.0005	< 0.00050	< 0.00050	0.20	0.4
Lithium (Li)-Total	mg/L	0.005	0.0054	0.0056		
Magnesium (Mg)-Total	mg/L	0.1	11.1	11.4		
Manganese (Mn)-Total	mg/L	0.0003	0.0261	0.0254		
Molybdenum (Mo)-Total	mg/L	0.001	< 0.0010	< 0.0010		
Nickel (Ni)-Total	mg/L	0.001	0.0461	0.047	0.50	1.00
Potassium (K)-Total	mg/L	2	<2.0	<2.0		
Selenium (Se)-Total	mg/L	0.0001	0.000407	0.000429		
Silver (Ag)-Total	mg/L	0.00002	< 0.000020	< 0.000020		
Sodium (Na)-Total	mg/L	2	17.2	17		
Thallium (Tl)-Total	mg/L	0.0002	< 0.00020	< 0.00020		
Tin (Sn)-Total	mg/L	0.0005	< 0.00050	< 0.00050		
Titanium (Ti)-Total	mg/L	0.01	< 0.010	< 0.010		
Uranium (U)-Total	mg/L	0.0002	0.00039	0.0004		
Vanadium (V)-Total	mg/L	0.001	< 0.00050	< 0.00050		
Zinc (Zn)-Total	mg/L	0.005	0.0057	0.0056	0.50	1.00
Oil and Grease	mg/L	5	<5.0	< 5.0		
Oil And Grease (Visible	0	n/a	NO	NO	No visible sheen	No visible sheen
Sheen) Bold/shading indicates ex	1	CD DI	0 1 1	1 1 1	I	

Bold/shading indicates exceedance of Part D Item 9 criteria; however no exceedances observed.

^{*} Reported Result Verified By Repeat Analysis

^{**} Detection Limit raised due to co-eluting interference. GCMS qualifier ion ratio did not meet acceptance criteria.

[^] The ion abundance ratio(s) did not meet the acceptance criteria. Value is an estimated maximum.

⁺ Discharge criteria authorized by the Inspector July 20, 2015.

^{**} Criteria from Part D Item 9 applied for discharges direct from accumulated surface runoff at the portal.

Part J Item 9 and 10: Sewage Disposal Facility Effluent

No samples were taken from monitoring station BOS-3 or BOS-4 as the sewage disposal facility was not operational.

Part J Item 12 and 13: Seepage Monitoring

Seepage at Boston (BOS-8) is monitored seasonally when water is available to sample. There was no water accumulated at BOS-8 seepage locations this month 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-BOS1217.

Incident Reporting

No incidents pertaining to this licence occurred during this month.

Should there be any questions regarding this monthly report, please contact. John Roberts at <u>John.Roberts@tmacresources.com</u>.

Yours sincerely,

M. John Roberts

Vice President, Environmental Affairs

Hope Bay Project (416) 628-0216

cc. Eva Paul, Water Resources Officer, AANDC

Figure 1. 2BB-BOS1217 SNP Monitoring Locations

