

July 29, 2013

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Re: June 2013 – Monthly Monitoring Report for Water Licence 2AM-DOH0713

This report is comprised of monitoring requirements as set out in Schedule J of water licence 2AM-DOH0713 and additional requirements from AANDC. Licence items include:

- Part D (Conditions Applying to Construction) Items 7 and 19;
- Part E (Conditions applying to Water Use) Item 1;
- Part G (Conditions Applying to Waste Management and Waste Management Plans) Items 3(e) and 3(b), Item 21 (a) and 22 (e);
- Part J (Conditions Applying to General and Aquatic Effects Monitoring) Items 12 and 14.

Other monitoring requirements stipulated in the licence refer to facilities that have not been constructed. Doris Camp was re-opened on March 25th, 2013, in a care and maintenance phase with water management, drill exploration, and environmental compliance being the focus of current activities.

Part D: Conditions Applying to Construction**Item 7. Construction Monitoring**

Construction activities did not take place this month.

Item 19. Surface Runoff Effluent Quality Limits

In May during freshet, SRK collected water samples of surface runoff and seeps from construction areas that had the potential to directly or indirectly enter a water body, as per the Waste Rock and Ore Management Plan and the Hope Bay Project Quarry A, B & D Management and Monitoring Plan. The results of the SRK sampling program will be submitted as a stand-alone report and submitted at the same time as the annual reports.

Turbidity checks were conducted daily during periods of melt along areas that had been constructed in 2012. In 2013, these checks were conducted near the diversion berm, the sumps, the north dam and the vent raise. No turbid runoff with the potential to reach a water body was noted.

Part E: Conditions Applying to Water Use**Item 1: Water Usage**

There was no water usage from Doris Lake this month (Table 1). Water for camp use was withdrawn from Windy Lake as permitted by water licences 2BE-HOP1222 and 2AM-DOH0713. The volume of water extracted from Windy Lake and its water quality results are presented in the July 2013 2BE-HOP1222 monthly monitoring report.

Table 1: Water Usage from Doris North (m³), June 2013

Parameters	Water Use
Water Source	Doris Lake
Geographical Coordinates	68°8'17.04" N, 106°36'52.68"W
Monthly Cumulative	0 m ³
Annual Cumulative	0 m ³
2AM-DOH0713 Permitted Water Volume (Total Annual)	480,000m ³

Schedule J: Water Quality Monitoring at Water Intake

Monthly compliance samples were taken from monitoring station ST-7 (Doris Lake raw water) in accordance with the Schedule J requirements of the licence (Table 2).

Table 2: Monthly Compliance Sample Results for ST-7, June 2013

Sample ID		ST7-04JUN13
ALS ID		L1311314-6
Sample Date/Time		6/4/2013 9:42
Parameter	Unit	Results
Conductivity (EC)	µS/cm	244
Hardness (as CaCO ₃)	mg/L	43.6
pH	pH	7.56
Total Suspended Solids	mg/L	<3.0
Ammonia, Total (as N)	mg/L	<0.050
Nitrate (as N)	mg/L	<0.050
Nitrite (as N)	mg/L	<0.050
Orthophosphate-Dissolved (as P)	mg/L	<0.0010
Phosphorus (P)-Total	mg/L	0.021
Cyanide, Total	mg/L	<0.0050
Cyanide, Free	mg/L	<0.0050
Aphanizomenon (Cyanophyceae)	cells/mL	45400
Total cyanobacterial cell count	cells/mL	66900
Limnithrix (Cyanophyceae)	cells/mL	4420
Planktolyngbya (Cyanophyceae)	cells/mL	17100
Aluminum (Al)-Total	mg/L	0.0113
Antimony (Sb)-Total	mg/L	<0.00040
Arsenic (As)-Total	mg/L	<0.00040
Barium (Ba)-Total	mg/L	<0.0030
Beryllium (Be)-Total	mg/L	<0.0010
Boron (B)-Total	mg/L	<0.050
Cadmium (Cd)-Total	mg/L	<0.000010
Calcium (Ca)-Total	mg/L	8.71
Chromium (Cr)-Total	mg/L	<0.0010
Cobalt (Co)-Total	mg/L	<0.0020
Copper (Cu)-Total	mg/L	0.0013
Iron (Fe)-Total	mg/L	0.031
Lead (Pb)-Total	mg/L	<0.00010
Lithium (Li)-Total	mg/L	<0.010
Magnesium (Mg)-Total	mg/L	6.25
Manganese (Mn)-Total	mg/L	0.0083
Mercury (Hg)-Total	mg/L	<0.000020
Molybdenum (Mo)-Total	mg/L	<0.0050
Nickel (Ni)-Total	mg/L	<0.0020
Potassium (K)-Total	mg/L	2.15
Selenium (Se)-Total	mg/L	<0.00040

Sample ID		ST7-04JUN13
ALS ID		L1311314-6
Sample Date/Time		6/4/2013 9:42
Parameter	Unit	Results
Silver (Ag)-Total	mg/L	<0.000020
Sodium (Na)-Total	mg/L	29.7
Thallium (Tl)-Total	mg/L	<0.00010
Tin (Sn)-Total	mg/L	<0.050
Titanium (Ti)-Total	mg/L	<0.0010
Uranium (U)-Total	mg/L	<0.00010
Vanadium (V)-Total	mg/L	<0.0010
Zinc (Zn)-Total	mg/L	<0.0040
Calcium (Ca)-Dissolved	mg/L	7.65
Magnesium (Mg)-Dissolved	mg/L	5.95
Oil and Grease	mg/L	<1.0
Oil And Grease (Visible Sheen)		NO VISIBLE SHEEN
Microcystin	ug/L	<0.20
Biological Oxygen demand	Mg/L	4
Fecal Coliform	CFU/100mL	<1

Part G: Conditions Applying to Waste Management and Waste Management Plans.

Item 1: Condition to Provide Notice of a Planned Discharge

On May 21, 2013 AANDC and the NWB were provided with a discharge notification for the discharge of ST4, ST5, ST6A, and ST6B.

Item 3(b): Conditions applying to sewage effluent quality

Monthly compliance samples were taken from monitoring station ST-8B (Sewage Treatment Plant Effluent) in accordance with the Schedule J requirements of the licence (Table 3).

Table 3: Monthly Compliance Sample Results for ST-8B, June 2013

Sample ID		ST8B-04JUNE13	Part G Item 3 (b)	
ALS ID		L1311314-8	Maximum Average Concentration	Maximum Allowable Grab Sample Concentration
Sample Date/Time		6/4/2013 7:30:00 AM		
Parameter	Units	Results		
pH	pH	7.28	6.5 - 9.0	9
Total Suspended Solids	mg/L	<3.0	100	100
Biochemical Oxygen Demand	mg/L	14	80	80
Oil and Grease	mg/L	2.1	5	10
Oil And Grease (Visible Sheen)		No Visible Sheen	No Visible Sheen	No Visible Sheen
Fecal Coliform	CFU/ 100mL	<1	10,000	10,000

Sewage effluent discharge at Glenn Lake (ST-9) was sampled in June and water quality results are presented in Table 4.

Table 4: Monthly Compliance Sample Results for ST-9, June 2013

Sample ID		ST9-25JUN13
ALS ID		L1322373-15
Sample Date/Time		6/25/2013 9:03
Parameter	Unit	Results
BOD ₅	mg/L	3
TSS (mg/L)	mg/L	<3.0
Fecal Coliform	CFU/100mL	<1

Sample ID		ST9-25JUN13
ALS ID		L1322373-15
Sample Date/Time		6/25/2013 9:03
Parameter	Unit	Results
pH (pH unit)	pH unit	8.07
Oil & Grease (Visible Sheen)		No Visible Sheen
Oil & Grease (mg/L)	mg/L	<1.0

Item 3(e): Treated Sewage Effluent Release in cubic meters

This month, 167 m³ of sewage effluent was discharged from the sewage treatment plant.

Item 21 (a) and Items 22 (c), (e): Sedimentation pond, land farm, and fuel containment sumps

As described in the 2012 Interim Water Management Plan, the Sedimentation Pond (ST-1) is being used as a collection pond for the water that accumulates in the Pollution Control Pond (ST-2), the two Underflow Sumps (STS1 and STS2), and occasionally from various berms and containments in the project area. The water in ST-1 is transferred to the Tailings Impoundment Area (TIA) when there is enough accumulated water for the pumps to operate effectively. At this time, no ST-1 water is being discharged to the tundra. Transfer of water from ST-1 to the TIA was initiated June 3, 2013 (Table 5). The water quality results for ST-1 are shown in Table 6.

Table 5: Water in cubic meters (m³) transferred from ST-1 to the TIA, June 2013

Parameters	Water volume transferred from ST-1 to TIA (m³)
Monthly Cumulative	4165.55
Annual Cumulative	4165.55

Table 6: Water Quality Data Summary for Monitoring Station ST-1, June 2013

Sample ID		ST1-04JUN13
ALS ID		L1313624-1
Sample Date/Time		6/4/2013 14:36
Parameter	Unit	Results
Conductivity (EC)	uS/cm	2710
Hardness (as CaCO ₃)	mg/L	705
pH	pH	7.64
Total Suspended Solids	mg/L	11
Ammonia, Total (as N)	mg/L	10.4
Nitrate (as N)	mg/L	32.7
Nitrite (as N)	mg/L	0.205
Sulfate (SO ₄)	mg/L	54.6
Cyanide, Total	mg/L	<0.0050
Aluminum (Al)-Total	mg/L	0.34
Antimony (Sb)-Total	mg/L	<0.00050
Arsenic (As)-Total	mg/L	0.0006
Barium (Ba)-Total	mg/L	0.0522
Beryllium (Be)-Total	mg/L	<0.0025
Boron (B)-Total	mg/L	0.102
Cadmium (Cd)-Total	mg/L	0.000073
Calcium (Ca)-Total	mg/L	249
Chromium (Cr)-Total	mg/L	0.0025
Cobalt (Co)-Total	mg/L	<0.0020
Copper (Cu)-Total	mg/L	0.0057

Sample ID		ST1-04JUN13
ALS ID		L1313624-1
Sample Date/Time		6/4/2013 14:36
Parameter	Unit	Results
Iron (Fe)-Total	mg/L	0.594
Lead (Pb)-Total	mg/L	0.00027
Lithium (Li)-Total	mg/L	0.032
Magnesium (Mg)-Total	mg/L	34.2
Manganese (Mn)-Total	mg/L	0.556
Mercury (Hg)-Total	mg/L	<0.000020
Molybdenum (Mo)-Total	mg/L	<0.0050
Nickel (Ni)-Total	mg/L	0.0036
Potassium (K)-Total	mg/L	13.2
Selenium (Se)-Total	mg/L	0.00074
Silver (Ag)-Total	mg/L	<0.000050
Sodium (Na)-Total	mg/L	197
Thallium (Tl)-Total	mg/L	<0.00025
Tin (Sn)-Total	mg/L	<0.050
Titanium (Ti)-Total	mg/L	0.0091
Uranium (U)-Total	mg/L	0.00057
Vanadium (V)-Total	mg/L	0.0016
Zinc (Zn)-Total	mg/L	0.06
Calcium (Ca)-Dissolved	mg/L	231
Magnesium (Mg)-Dissolved	mg/L	31.1
Oil and Grease	mg/L	<1.0
Oil And Grease (Visible Sheen)		no visible sheen

Water from the landfarm (ST-4) was sampled on May 28, 2013 and the water was compliant with the discharge criteria for ST-4. Following receipt of the results, an oil sheen was visible on the water in the landfarm. We proceeded with the discharge using an oil-water separator to make sure the water being discharged was free of fuel. Water was discharged from the landfarm facility between June 22 and 25, 2013. Approximately 150 m³ of water was discharged. Daily discharge sampling results are presented in Table 11 at the end of the report.

Water from the Doris tank farm (ST-5) was sampled on May 28, 2013. The water was compliant with discharge criteria for ST-5. On June 8 and 9, 2013, approximately 120 m³ of water was discharged to a location just north of the berm as approved by the inspector. Daily discharge sampling results are presented in Table 7.

Table 7: Water Quality Data Summary for Monitoring Station ST-5, June 2013

Sample ID		ST5-08JUN13	ST5-09JUN13	Part G Item 22e	
ALS ID		L1314879-12	L1314879-15	Maximum Average Concentration (mg/L)	Maximum Concentration in any Grab Sample (mg/L)
Sample Date/Time		6/8/2013 11:13	6/9/2013 9:23		
Parameter	Unit	Results			
pH	pH	8.16	8.18	6.5 – 9.0	9
Total Suspended Solids	mg/L	5	<3.0	15	30
Lead (Pb)-Total	mg/L	0.000127	0.00006	0.01	0.02
Oil and Grease	mg/L	<1.0	<1.0	5	10
Oil And Grease (Visible Sheen)		no visible sheen	no visible sheen	-	-
Benzene	mg/L	<0.00050	<0.00050	0.37	-
Ethylbenzene	mg/L	<0.00050	<0.00050	0.09	-

Sample ID		ST5-08JUN13	ST5-09JUN13	Part G Item 22e	
ALS ID		L1314879-12	L1314879-15	Maximum Average Concentration (mg/L)	Maximum Concentration in any Grab Sample (mg/L)
Sample Date/Time		6/8/2013 11:13	6/9/2013 9:23		
Parameter	Unit	Results			
Toluene	mg/L	<0.00050	<0.00050	0.002	

Water from the Roberts Bay 5ML tank farm (ST-6A) was sampled on May 28, 2013 and was found to be compliant with discharge criteria. Discharge from the facility began June 10, 2013. Approximately 212 m³ of water was used for dust suppression on the site roads in June. Daily discharge sampling results are presented in Table 12 at the end of the report.

Water from the Roberts Bay 3x5ML tank farm (ST-6B) was sampled on June 10, 2013 and was found to be compliant with discharge criteria. Discharge from the facility began June 20, 2013. Approximately 571 m³ of water was used for dust suppression on the site roads. Daily discharge sampling results are presented in Table 13 at the end of the report.

Item 26, 27, 28 and Part J Item 8: Water Discharged from Tailing Impoundment Area

Discharge from the Tailing Impoundment Area began June 21, 2013. Prior to the initiation of the discharge, sampling at TL-1, TL-2, and TL-3 was started June 4, 2013 and continued every two days after that for over two weeks. Following the start of discharge, sampling at TL-4 was initiated, and sampling at TL-1, TL-2, TL-3 was continued every two days for two weeks. Samples at TL-10 were taken June 4, 2013 (see section Schedule J below for details).

Water quality results for TL-1 are presented in Table 14, for TL-2 in Table 15, for TL-3 in Table 16, and for TL-4 in Table 8.

Water from the mine site (ST-1) was discharged into Tail Lake starting June 3 (Table 6).

Water collected from TL-4 was shown to be non-acutely toxic to trout or daphnia.

Table 8: Water Quality Results for TL-4, June 2013

Sample ID		TL4-22JUN13	TL4-24JUN13	TL4-26JUN13	TL4-28JUN13	TL4-30JUN13
ALS ID		L1322373-4	L1322373-11	L1324749-5	L1324749-9	L1325440-4
Sample Date/Time		6/22/2013 12:00	6/24/2013 10:02	6/26/2013 9:44	6/28/2013 9:05	6/30/2013 17:20
Parameter	Units	Results				
Conductivity (EC)	uS/cm	259	212	206	200	198
Hardness (as CaCO ₃)	mg/L	67.3	55.8	54	52.5	50.4
pH	pH	8.04	8	7.86	7.85	8.17
Total Suspended Solids	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0
Total Dissolved Solids	mg/L	173	142	119	120	118
Ammonia, Total (as N)	mg/L	<0.050	<0.050	<0.050	<0.050	0.052
Chloride (Cl)	mg/L	48.7	39.9	35.6	34.5	37
Nitrate (as N)	mg/L	0.054	<0.050	<0.050	<0.050	<0.050
Nitrite (as N)	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050
Orthophosphate-Dissolved (as P)	mg/L	0.0019	<0.0010	0.0013	<0.0010	<0.0010
Phosphorus (P)-Total	mg/L	0.022	<0.020	0.022	0.02	0.027
Cyanide, Total	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cyanide, Free	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Aluminum (Al)-Total	mg/L	0.0151	0.0107	0.0145	0.0136	0.0123
Antimony (Sb)-Total	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Arsenic (As)-Total	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040

Sample ID		TL4-22JUN13	TL4-24JUN13	TL4-26JUN13	TL4-28JUN13	TL4-30JUN13
ALS ID		L1322373-4	L1322373-11	L1324749-5	L1324749-9	L1325440-4
Sample Date/Time		6/22/2013 12:00	6/24/2013 10:02	6/26/2013 9:44	6/28/2013 9:05	6/30/2013 17:20
Parameter	Units	Results				
Barium (Ba)-Total	mg/L	0.0038	<0.0030	<0.0030	0.0032	<0.0030
Beryllium (Be)-Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050
Cadmium (Cd)-Total	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Calcium (Ca)-Total	mg/L	13.9	11.1	11.7	11.6	10.8
Chromium (Cr)-Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cobalt (Co)-Total	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Copper (Cu)-Total	mg/L	0.0012	<0.0010	0.0011	<0.0010	<0.0010
Iron (Fe)-Total	mg/L	0.275	0.26	0.201	0.254	0.264
Lead (Pb)-Total	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Lithium (Li)-Total	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Magnesium (Mg)-Total	mg/L	7.09	5.96	6.02	5.7	5.43
Manganese (Mn)-Total	mg/L	0.0237	0.0264	0.0262	0.0343	0.0249
Mercury (Hg)-Total	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum (Mo)-Total	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Nickel (Ni)-Total	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Potassium (K)-Total	mg/L	2.28	1.9	1.81	1.78	1.75
Selenium (Se)-Total	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silver (Ag)-Total	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Sodium (Na)-Total	mg/L	22.4	18.8	18.4	18.1	17.2
Thallium (Tl)-Total	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050
Titanium (Ti)-Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Uranium (U)-Total	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Vanadium (V)-Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	0.0193	0.014	0.014	0.0111	0.0088
Calcium (Ca)-Dissolved	mg/L	15.2	12.5	-	-	11.4
Magnesium (Mg)-Dissolved	mg/L	7.12	5.95	-	-	5.32

Item 30: Tailings Impoundment Area Discharge Volume

Dewatering of the Tailings Impoundment Area commenced on June 21, 2013. The daily discharge and maximum permitted discharge volumes are presented in Table 9.

Table 9: Daily Permitted and Actual Discharge Volumes for the TIA Dewatering Program, June 2013

Date	TL-2 Discharge Volume (m³)	Max. Discharge Volume Allowed 10% of TL-2 (m³)	Total Daily Vol. Discharged (m³)	Elevation of TIA (m)
June 21, 2013	82469	8055	462.53	29.92
June 22, 2013	80551	8346	7232.12	29.92
June 23, 2013	82780	8278	6701.40	29.92
June 24, 2013	81959	8196	6437.07	29.91
June 25, 2013	80810	8081	6289.34	29.91
June 26, 2013	80145	8014	6164.46	29.9
June 27, 2013	76326	7633	6026.88	29.89
June 28, 2013	74503	7450	5906.31	29.89
June 29, 2013	72636	7264	5923.12	29.88
June 30, 2013	70667	7067	5881.29	29.88

Schedule J: Tailings Impoundment Area Water Quality (TL-10)

Water quality at station TL-10 is provided in Table 10.

Table 10: Water Quality Data Summary for Monitoring Station TL-10, June 2013

Sample ID		TL10D-05JUN13	TL10M-05JUN13	TL10S-05JUN13
ALS ID		L1313624-7	L1313624-8	L1313624-9
Sample Date/Time		6/5/2013 10:15	6/5/2013 10:25	6/5/2013 10:37
Parameter	Units	Results		
Conductivity (EC)	uS/cm	371	343	330
Hardness (as CaCO ₃)	mg/L	95.8	91.0	87.4
pH	pH	7.48	7.51	7.62
Redox Potential	mV	211	221	209
Total Suspended Solids	mg/L	<3.0	<3.0	<3.0
Total Dissolved Solids	mg/L	230	214	219
Ammonia, Total (as N)	mg/L	<0.050	<0.050	<0.050
Chloride (Cl)	mg/L	69.4	63.7	61.9
Nitrate (as N)	mg/L	<0.050	<0.050	<0.050
Nitrite (as N)	mg/L	<0.050	<0.050	<0.050
Orthophosphate-Dissolved (as P)	mg/L	0.0016	0.0011	<0.0010
Phosphorus (P)-Total	mg/L	0.021	<0.020	<0.020
Cyanide, Total	mg/L	<0.0050	<0.0050	<0.0050
Cyanide, Free	mg/L	<0.0050	<0.0050	<0.0050
Aluminum (Al)-Total	mg/L	<0.0050	<0.0050	0.0053
Antimony (Sb)-Total	mg/L	<0.00040	<0.00040	<0.00040
Arsenic (As)-Total	mg/L	<0.00040	<0.00040	<0.00040
Barium (Ba)-Total	mg/L	0.0096	0.007	0.0051
Beryllium (Be)-Total	mg/L	<0.0010	<0.0010	<0.0010
Boron (B)-Total	mg/L	<0.050	<0.050	<0.050
Cadmium (Cd)-Total	mg/L	<0.000010	<0.000010	<0.000010
Calcium (Ca)-Total	mg/L	19.4	19.2	18.3
Chromium (Cr)-Total	mg/L	<0.0010	<0.0010	<0.0010
Cobalt (Co)-Total	mg/L	<0.0020	<0.0020	<0.0020
Copper (Cu)-Total	mg/L	0.0012	0.0013	0.0013
Iron (Fe)-Total	mg/L	0.226	0.086	0.037
Lead (Pb)-Total	mg/L	<0.00010	<0.00010	<0.00010
Lithium (Li)-Total	mg/L	<0.010	<0.010	<0.010
Magnesium (Mg)-Total	mg/L	9.53	9.96	9.1
Manganese (Mn)-Total	mg/L	0.491	0.195	0.0298
Mercury (Hg)-Total	mg/L	<0.000020	<0.000020	<0.000020
Molybdenum (Mo)-Total	mg/L	<0.0050	<0.0050	<0.0050
Nickel (Ni)-Total	mg/L	<0.0020	<0.0020	<0.0020
Potassium (K)-Total	mg/L	3.17	3.13	2.78
Selenium (Se)-Total	mg/L	<0.00040	<0.00040	<0.00040
Silver (Ag)-Total	mg/L	<0.000020	<0.000020	<0.000020
Sodium (Na)-Total	mg/L	27.6	27.9	25.1
Thallium (Tl)-Total	mg/L	<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L	<0.050	<0.050	<0.050
Titanium (Ti)-Total	mg/L	<0.0010	<0.0010	<0.0010
Uranium (U)-Total	mg/L	<0.00010	<0.00010	<0.00010
Vanadium (V)-Total	mg/L	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	<0.0040	<0.0040	<0.0040
Calcium (Ca)-Dissolved	mg/L	20.1	19.5	18
Magnesium (Mg)-Dissolved	mg/L	11.1	10.3	10.3

Part J: Conditions Applying to General and Aquatics Effects Monitoring

Item 12d: Tonnages of Waste Rock Stored on the Temporary Waste Rock Pad

Underground mining is no longer occurring. Waste rock has not been removed from the pile. The total volume of rock on the temporary waste rock pad is 182,716 tonnes, as per the December 2011 survey.

Item 12g: Tail Lake Ice Thickness

Tail Lake ice thickness was measured at 205 cm this month.

Environmental Incident Reporting

June 11, 2013 – Near Miss – Operator was lifting a pallet of Jet A drums with the skid steer. When he tilted the forks back, one drum contacted the top of the fork assembly and created a small hole allowing approximately 2L of fuel to leak out of the drum. This occurred inside of a seacan within a containment berm. The barrel was placed on a spill tray at the helipad and the fuel was used immediately to prevent further loss. The seacan floor was cleaned as best as possible.

Should there be any questions regarding this monthly report, please contact Katsky Venter or Léa-Marie Bowes-Lyon, ESR Site Managers for TMAC Resources Inc. at (867) 988-0568 or Katsky.Venter@Newmont.com or Lea-Marie.Bowes-Lyon@Newmont.com.

Yours sincerely,

Léa-Marie Bowes-Lyon

Environmental and Social Responsibility Site Manager
Hope Bay Project

Table 11: ST-4 (Landfarm) Daily Discharge Sample Results, June 2013

Sample ID		ST4-22JUN13	ST4-24JUN13	ST4-23JUN13	ST4-25JUN13	Maximum Average Concentration (mg/L)	Maximum Concentration in any Grab Sample (mg/L)
ALS ID		L1322373-5	L1322373-12	L1322373-14	L1324749-1		
Sample Date/Time		6/22/2013 1:55:00 PM	6/24/2013 11:00:00 AM	6/23/2013 10:15:00 AM	6/25/2013 4:49:00 PM		
Parameter	Unit	Results					
pH	pH	8.34	8.34	8.4	8.20	6.5 - 9.0	9
Total Suspended Solids	mg/L	<3.0	<3.0	<3.0	<3.0	15	30
Total Ammonia-N	mg/L	0.107	0.061	0.057	<0.050	2	4
Lead (Pb)-Total	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	0.01	0.02
Benzene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	0.37	-
Ethylbenzene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	0.09	-
Toluene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	0.002	-

Table 12: ST-6A (Roberts Bay 5ML tank farm) Daily Discharge Sample Results, June 2013

Sample ID		ST6A-10JUN13	ST6A-11JUN13	ST6A - 16 JUN13	ST6A-20JUN13	Part G Item 22e	
ALS ID		L1314879-19	L1314879-20	L1318661-2	L1320947-4	Maximum Average Concentration (mg/L)	Maximum Concentration in any Grab Sample (mg/L)
Sample Date/Time		6/10/2013 1:12:00 PM	6/11/2013 9:57:00 AM	6/16/2013 6:08:00 PM	6/20/2013 5:46:00 PM		
Parameter	Units	Results					
pH	pH	8.18	8.23	8.12	8.23		
Total Suspended Solids	mg/L	15	19	11	6	15	30
Lead (Pb)-Total	mg/L	0.000514	0.000469	0.000208	0.000082	0.01	0.02
Oil and Grease	mg/L	<1.0	<1.0	<1.0	<1.0	5	10
Oil And Grease (Visible Sheen)		no visible sheen	no visible sheen	no visible sheen	no visible sheen	-	-
Benzene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	0.37	-
Ethylbenzene	mg/L	<0.00050	<0.00050	0.00174	0.00085	0.09	-
Toluene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	0.002	-
Styrene	mg/L	<0.010	<0.010	<0.010	<0.010	-	-
o-Xylene	mg/L	<0.00050	<0.00050	0.00957	0.00541	-	-
m+p-Xylene	mg/L	<0.00050	<0.00050	0.00863	0.00455	-	-
Xylenes	mg/L	<0.00071	<0.00071	0.0182	0.00996	-	-

Table 13: ST-6B (Roberts Bay 3x5ML tank farm) Daily Discharge Sample Results, June 2013

Sample ID		ST6B-10JUN13A (Pre-treatment)	ST6B-10JUN13B (Post-treatment)	ST6B-20JUN13 (During Discharge)	ST6B-22JUN13 (During Discharge)	ST6B-24JUN13 (During Discharge)	ST6B-29JUN13 (During Discharge)	Part G Item 22e	
ALS ID		L1314879-21	L1314879-22	L1320947-5	L1322373-6	L1322373-13	L1325440-5	Maximum Average Concentration (mg/L)	Maximum Concentration in any Grab Sample (mg/L)
Sample Date/Time		6/11/2013 2:15:00 PM	6/11/2013 2:37:00 PM	6/20/2013 6:05:00 PM	6/22/2013 7:55:00 AM	6/24/2013 11:25:00 AM	6/30/2013 3:30:00 PM		
Parameter	Unit	Results						Maximum Average Concentration (mg/L)	Maximum Concentration in any Grab Sample (mg/L)
pH	pH	8.28	9.23	8.37	8.45	8.47	8.43		
Total Suspended Solids	mg/L	<3.0	<3.0	10	4	18	<3.0		
Lead (Pb)-Total	mg/L	0.000083	<0.000050	0.000212	0.000143	0.000418	0.000078		
Oil and Grease	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Oil And Grease (Visible Sheen)		No visible sheen	No visible sheen	No visible sheen	No visible sheen	No visible sheen	No visible sheen		
Benzene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050		
Ethylbenzene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050		
Toluene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050		
Styrene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		
o-Xylene	mg/L	0.00076	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050		
m+p-Xylene	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050		
Xylenes	mg/L	0.00076	<0.00071	<0.00071	<0.00071	<0.00071	<0.00071		

Table 14: TL-1 Water Quality Sampling Results, June 2013

Sample ID		TL1-05JUN13	TL1-06JUN13	TL1-10JUN13	TL1-08JUN13	TL1-12JUN13	TL1-14JUN13	TL1-16JUN13	TL1-18JUN13	TL1-20JUN13	TL1-22JUN13	TL1-24JUN13	TL1-26JUN13	TL1-28JUN13	TL1-30JUN13
ALS ID		L1313624-10	L1313624-13	L1314879-17	L1314879-23	L1317184-1	L1317184-4	L1318327-1	L1318327-4	L1320947-1	L1322373-1	L1322373-8	L1324749-2	L1324749-6	L1325440-1
Sample Date/Time		6/5/2013 13:56	6/6/2013 13:30	6/10/2013 9:40	6/8/2013 13:54	6/12/2013 10:20	6/14/2013 8:15	6/16/2013 14:30	6/18/2013 7:30	6/20/2013 7:45	6/22/2013 15:30	6/24/2013 9:38	6/26/2013 9:18	6/28/2013 7:50	6/30/2013 18:25
Parameter	Units	Results													
Conductivity (EC)	uS/cm	100	228	343	288	308	245	186	185	261	253	272	216	212	215
Hardness (as CaCO3)	mg/L	25.2	57.1	90.6	85.1	80.5	64.6	48.1	47.5	68.1	66.2	70.0	59.2	55.4	55.7
pH	pH	7.29	7.45	7.9	8.08	7.84	7.78	7.75	7.73	8.01	8.07	8.28	8.04	8	8.99
Redox Potential	mV	200	175	-	-	-	-	-	-	-	-	-	-	-	-
Total Suspended Solids	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Total Dissolved Solids	mg/L	69	145	216	181	200	155	111	129	136	170	183	127	131	139
Ammonia, Total (as N)	mg/L	<0.050	0.26	0.121	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloride (Cl)	mg/L	14.9	38.6	62.9	50.1	56.5	45.1	34.9	35.6	48.3	48.2	50.6	37.2	36.1	39.8
Nitrate (as N)	mg/L	0.151	0.053	0.382	0.168	0.198	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrite (as N)	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Orthophosphate-Dissolved (as P)	mg/L	0.0037	0.0012	<0.0010	0.0018	0.0034	0.0032	0.0075	0.003	0.0019	0.0014	<0.0010	0.0017	0.0011	<0.0010
Phosphorus (P)-Total	mg/L	0.05	0.048	0.028	0.037	0.047	0.076	0.038	0.024	0.026	0.021	0.027	0.023	0.023	0.026
Cyanide, Total	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cyanide, Free	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Aluminum (Al)-Total	mg/L	0.0634	0.0273	0.0124	0.0235	0.0391	0.0233	0.0128	0.0145	0.0108	0.0118	0.0145	0.0109	0.0149	0.0151
Antimony (Sb)-Total	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Arsenic (As)-Total	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Barium (Ba)-Total	mg/L	0.0036	0.0062	0.006	0.0059	0.0055	0.0049	0.0031	0.003	0.0039	0.0037	0.0036	<0.0030	<0.0030	<0.0030
Beryllium (Be)-Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cadmium (Cd)-Total	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000019	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Calcium (Ca)-Total	mg/L	5.86	14.4	20.5	17.6	18.5	14.3	11.1	11	16	13.8	15.4	12.8	12.2	12.9
Chromium (Cr)-Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cobalt (Co)-Total	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Copper (Cu)-Total	mg/L	0.0015	0.0013	0.0014	0.0015	0.0019	0.0016	0.0023	0.002	0.0023	0.0012	0.0015	0.0011	0.0013	0.0015
Iron (Fe)-Total	mg/L	0.4	1.47	0.229	0.668	0.227	0.22	0.237	0.176	0.209	0.217	0.22	0.233	0.246	0.206
Lead (Pb)-Total	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Lithium (Li)-Total	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Magnesium (Mg)-Total	mg/L	2.38	6.33	9.02	8.06	8.48	7.04	4.86	4.89	7.52	6.77	7.26	5.93	6.04	6.21
Manganese (Mn)-Total	mg/L	0.0673	0.22	0.0396	0.0401	0.0274	0.0195	0.0163	0.0145	0.0151	0.0227	0.0204	0.0125	0.0212	0.0179
Mercury (Hg)-Total	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum (Mo)-Total	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Nickel (Ni)-Total	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Potassium (K)-Total	mg/L	1.24	2.27	2.94	2.62	2.81	2.4	1.8	1.74	2.48	2.27	2.35	1.86	1.85	1.9
Selenium (Se)-Total	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silver (Ag)-Total	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Sodium (Na)-Total	mg/L	8.1	17.8	28.8	23.4	27.6	22.8	15.4	14.9	23.7	22.6	23.8	19.1	18.8	19.8
Thallium (Tl)-Total	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Titanium (Ti)-Total	mg/L	0.0019	0.0013	<0.0010	<0.0010	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Uranium (U)-Total	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Vanadium (V)-Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	0.0052	0.0259	0.0053	0.0103	0.005	<0.0040	<0.0040	<0.0040	0.0099	<0.0040	<0.0040	<0.0040	0.0113	<0.0040
Calcium (Ca)-Dissolved	mg/L	5.8	12.4	20.9	20.8	18	14	11	10.8	15.4	15.1	16	13.1	-	12.5
Magnesium (Mg)-Dissolved	mg/L	2.59	6.35	9.31	9.58	8.65	7.2	4.99	4.97	7.16	6.93	7.26	6.43	-	5.97

Table 15: TL-2 Water Quality Sampling Results, June 2013

Sample ID		TL2-04JUN13	TL2-06JUN13	TL2-08JUN13	TL2-10JUN13	TL2-12JUN13	TL2-14JUN13	TL2-16JUN13	TL2-18JUN13	TL2-20JUN13	TL2-22JUN13	TL2-24JUN13	TL2-26JUN13	TL2-28JUN13	TL2-30JUN13
ALS ID		L1313624-6	L1313624-11	L1314879-13	L1314879-16	L1317184-2	L1317184-5	L1318327-2	L1318327-5	L1320947-2	L1322373-2	L1322373-9	L1324749-3	L1324749-7	L1325440-2
Sample Date/Time		6/4/2013 16:08	6/6/2013 11:12	6/8/2013 13:13	6/10/2013 9:30	6/12/2013 9:55	6/14/2013 8:25	6/16/2013 14:53	6/18/2013 7:46	6/20/2013 7:50	6/22/2013 11:33	6/24/2013 9:50	6/26/2013 9:31	6/28/2013 8:10	6/30/2013 18:15
Parameter	Units	Results													
Conductivity (EC)	uS/cm	177	102	280	202	203	140	161	170	165	176	144	290	191	255
Hardness (as CaCO3)	mg/L	44.2	20.2	49.2	35.7	39.4	27.1	29.5	30.1	29.4	32.1	24.6	55.2	35.3	44.9
pH	pH	7.63	7.34	7.72	7.63	7.54	7.42	7.43	7.48	7.62	7.7	7.65	7.58	7.56	7.7
Total Suspended Solids	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Total Dissolved Solids	mg/L	102	65	157	114	120	84	93	97	99	109	89	160	113	141
Ammonia, Total (as N)	mg/L	0.077	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloride (Cl)	mg/L	22.5	20.2	61.5	44.1	44.9	31.2	36.9	39.3	37.2	40.1	32.8	61.3	40.1	59.3
Nitrate (as N)	mg/L	0.498	0.075	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrite (as N)	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Orthophosphate-Dissolved (as P)	mg/L	0.0051	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Phosphorus (P)-Total	mg/L	0.032	<0.020	0.024	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.023	0.021	0.023
Cyanide, Total	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cyanide, Free	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Aluminum (Al)-Total	mg/L	0.119	0.0359	0.0246	0.0199	0.0219	0.021	0.0416	0.0399	0.0284	0.0294	0.0487	0.0259	0.04	0.0289
Antimony (Sb)-Total	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Arsenic (As)-Total	mg/L	0.00049	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Barium (Ba)-Total	mg/L	0.0034	<0.0030	0.0034	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	0.0031	<0.0030	<0.0030
Beryllium (Be)-Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cadmium (Cd)-Total	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000014	<0.000010
Calcium (Ca)-Total	mg/L	11.6	4.52	9.22	7.01	7.03	5.14	5.17	5.5	5.83	5.29	4.13	9.95	6.46	8.34
Chromium (Cr)-Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cobalt (Co)-Total	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Copper (Cu)-Total	mg/L	0.0054	<0.0010	0.0014	0.0011	0.0019	<0.0010	0.0021	0.0019	0.0017	<0.0010	<0.0010	0.0015	0.001	0.0015
Iron (Fe)-Total	mg/L	0.134	0.068	0.183	0.077	0.069	0.04	0.063	0.064	0.057	0.056	0.072	0.072	0.069	0.091
Lead (Pb)-Total	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Lithium (Li)-Total	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Magnesium (Mg)-Total	mg/L	2.9	2.2	6.16	4.32	4.71	3.41	3.67	4.03	3.95	4.07	3.5	6.98	4.66	5.92
Manganese (Mn)-Total	mg/L	0.0249	0.0408	0.0589	0.0243	0.0211	0.0136	0.0183	0.0184	0.0139	0.0133	0.0119	0.0166	0.0117	0.0183
Mercury (Hg)-Total	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum (Mo)-Total	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Nickel (Ni)-Total	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Potassium (K)-Total	mg/L	2.11	1.19	2.22	1.64	1.75	1.3	1.48	1.58	1.53	1.5	1.28	2.31	1.55	2.02
Selenium (Se)-Total	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silver (Ag)-Total	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Sodium (Na)-Total	mg/L	13.4	9.7	28.7	21.5	24	17.3	17.5	19.1	20.3	20.5	16.5	34.3	22.1	29.8
Thallium (Tl)-Total	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Titanium (Ti)-Total	mg/L	0.0028	<0.0010	<0.0010	0.0011	0.002	<0.0010	0.0011	<0.0010	0.002	0.0011	0.0016	<0.0010	0.0014	0.0014
Uranium (U)-Total	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Vanadium (V)-Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	0.0151	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Calcium (Ca)-Dissolved	mg/L	12	4.17	9.05	6.76	7.36	5.19	5.27	5.32	5.44	5.85	4.43	10.6	-	8.32
Magnesium (Mg)-Dissolved	mg/L	3.44	2.37	6.45	4.56	5.1	3.43	3.96	4.08	3.83	4.25	3.28	6.94	-	5.85

Table 16: TL-3 Water Quality Sampling Results, June 2013

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