



AGNICO EAGLE

MELIADINE GOLD PROJECT

ENVIRONMENTAL REPORT: JUNE 2016

WATER LICENCE 2BB-MEL1424

PRESENTED TO THE NUNAVUT WATER BOARD

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This monthly report is delivered under water license 2BB-MEL1424, PART J, item 13.

1. The Licensee shall maintain Monitoring Stations at the following locations:

Table 1: Monitoring stations

Monitoring Program Station Number	Description	Status
MEL-1	Raw water supply intake at Meliadine Lake	Active (Volume cubic metres)
MEL-2	Raw water supply intake at Pump, A8 or other Lakes	Active (Volume cubic metres)
MEL-5	Point of discharge for the Bermed Fuel Containment Facilities	Active
MEL-6	Effluent from the Landfarm Treatment Facility prior to release	New
MEL-7	Final Effluent Discharge from the BIODISK treatment system	Active
MEL-8	Point of discharge or runoff from the Non-Hazardous Waste Landfill	(New) Active

- 2. The Licensee shall measure and record, in cubic metres, the daily quantities of water utilized for camp, drilling and other purposes from all sources.**

The daily average consumption of fresh water for the site was 34.06 m³/day for the month of May; 0 m³/day for the drilling, 31.11 m³/day*** for the camp and 2.95 m³/day for the underground, ..

No further water was used for P1 infrastructure construction.

*** The volume includes the indirect water use.

- 3. The Licensee shall measure and record the volume of all soil from all locations entering the Landfarm Treatment Facility.**

No new material added.

- 4. The Licensee shall assess and record the concentration of F1 – F4 fractions in petroleum hydrocarbon contaminated soil, according to the CCME Canada-Wide Standard for Petroleum Hydrocarbons (PHC) in Soil that is entering the Land Treatment Unit from all sources and excavations.**

No new material added.

- 5. The Licensee shall provide the GPS coordinates of all locations where sources of water are utilized for all purposes. In UTM nad 1983 zone 15.**

- Camp water source: East 541943.0 ; North 6989174.0
- Underground water source: East 540076.0 ; North 6987731.0

- 6. The Licensee shall provide the GPS coordinates (in decimal degrees) of all locations where wastes associated with camp operations and exploration activities are deposited.**

The landfill has not been constructed yet, so most of the waste continues to be managed in containers. These containers are transported by barge during the summer and disposed of in an approved southern facility.

7. Licensee shall sample at Monitoring Program Station MEL-7, monthly during wastewater effluent discharge. Samples shall be analyzed for the parameters listed under Part G Item 11.

Biochemical Oxygen Demand – BOD5
 Total Suspended Solids
 Oil and Grease (and visual)
 Fecal Coliforms
 pH

All sewage treatment units are running correctly; population has been between 115 and 137 persons.

No exceedances in the month of June.

DATE	Limits	June			
		6/6/2016	6/13/2016	6/20/2016	6/27/2016
Ammonia as N		<0.01	0.06	0.1	0.1
Biochemical Oxygen Demand	80	5.0	2.0	10.0	17.0
Heterotrophic Plate Count (AAHB)		-	>30000	68,000.0	>30000
Nitrate-N		30.4	27.8	31.2	32.5
Nitrate and Nitrite as N		31.4	28.8	32.4	33.80
Nitrite-N		0.96	0.95	1.18	1.3
Oil & Grease-(IR)	5	<1	1.0	<1	<1
Phosphorus (P)-Total		9.09	11.4		11.8
TKN		11.7	17.1	18.5	23.1
Total Suspended Solids	100	<1	4	3.0	6.0
Transmittance %		44.0	43	41.0	38.0
pH	6.0 - 9.5	6.82	7.06	6.97	7.0
Fecal Coliforms	1000	<2	<2	<2	<2
Total Coliforms		-	<10000	70	***
Atypical		-	600000	1050	>2000

- 8. The Licensee shall, prior to the release of effluent from the Bermed Fuel Containment Facilities at Monitoring Program Station Mel-5 and the Landfarm Treatment Facility at Monitoring Program Station MEL-6 for the purpose of demonstrating compliance, sample for the parameters listed under Part D item 15.**

➤ No release in June.

- 9. The Licensee shall obtain representative samples of the water column below any ice where required under part F, Items 5 and 6. Monitoring shall include but not limited to the following:**

Total Suspended Solids

pH

Electrical Conductivity, and

Total trace Metals as determined by a standard ICP Scan (to include at a minimum, the following elements: Al, Sb, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Li, Mn, Mo, Ni, Se, Sn, Sr, Tl, Ti, U, V, Zn), and Trace Arsenic and Mercury.

➤ No drilling was done in June on any lake.

- 10. The inspector, Christine Wilson (INAC inspector), requested AEM to continue monitoring the ponded water at the rear of these facilities during times of flow with the same parameters as MEL-8 and the result must be included in the monthly monitoring report provided to the Nunavut Water Board ("the Board") and the Inspector.**

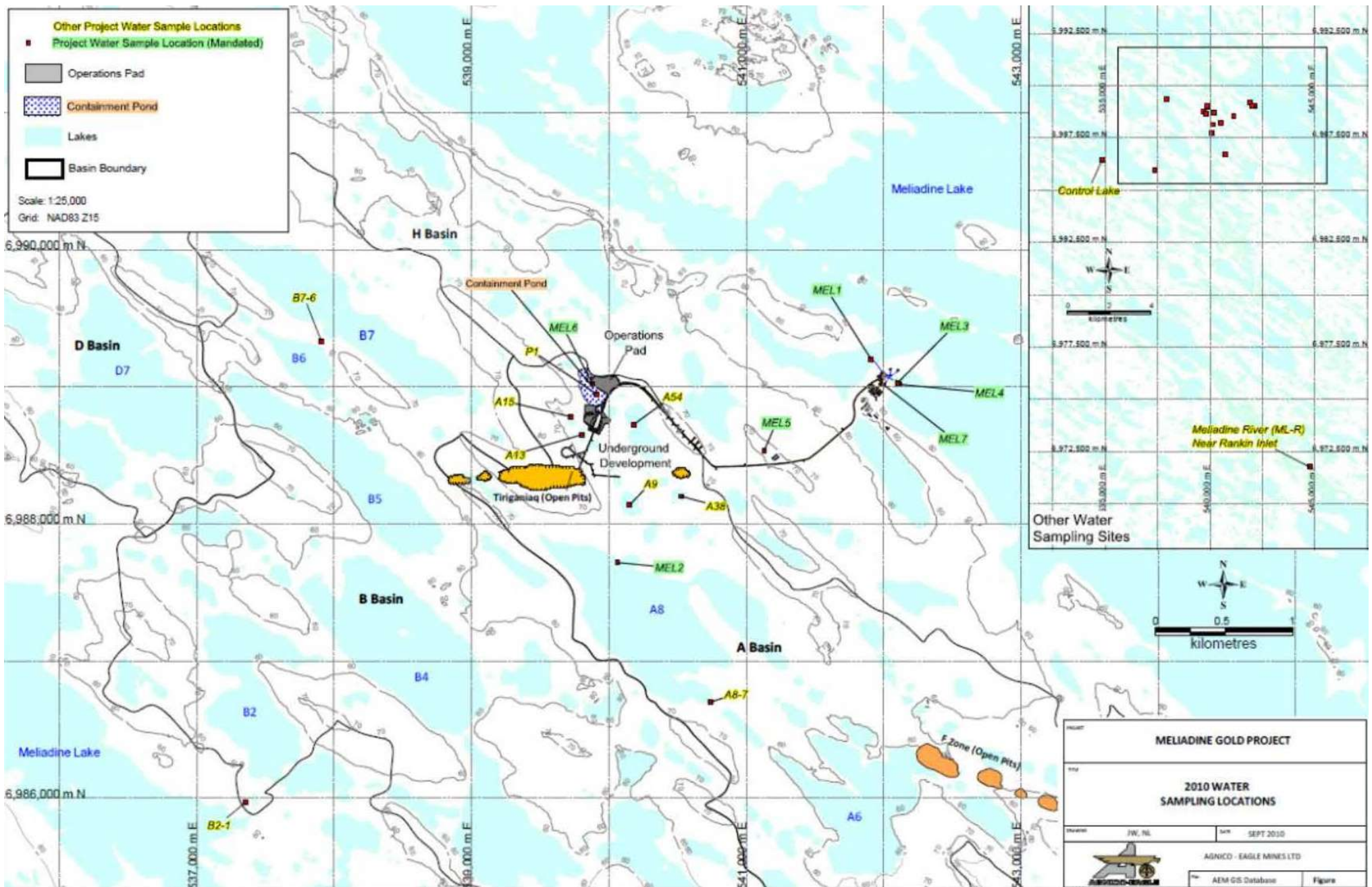
➤ Please find below the results for MEL – 8 for June 2016

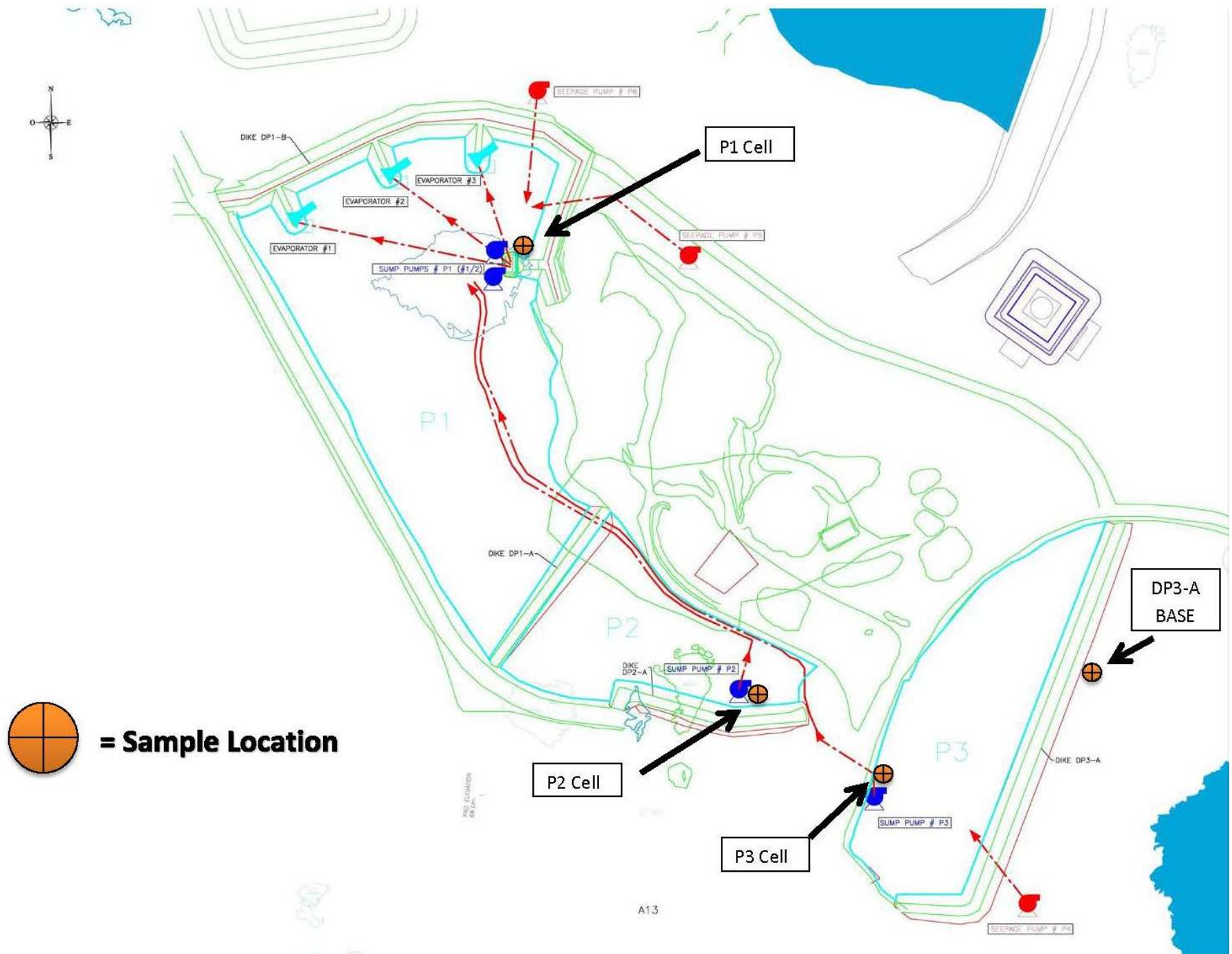
MEL-8			2016
Station:		2BB-MEL1424	MEL-8RC
Date Sampled:			6/14/2016
Sample ID:			V-54596
Field pH			7.3
Field Temperature in oC			5.1
Laboratory-Measured	Units	Limits (mg/L)	Results
Alkalinity CaCO3	mg/L		13
Aluminum (Al)-Total	mg/L		0.467
Antimony (Sb)-Total	mg/L		<0.0001
Arsenic (As)-Total	mg/L	1	0.0085
Barium (Ba)-Total	mg/L	1	0.0049
Beryllium (Be)-Total	mg/L		<0.0005
Bicarbonate - HCO3	mg/L		13
Boron (B)-Total	mg/L		<0.01
Cadmium (Cd)-Total	mg/L	0.1	<0.00002
Calcium (Ca)-Total	mg/L		4.68
Carbonate - CaCO3	mg/L		<2
Chloride (Cl)	mg/L		1.7
Chromium (Cr)-Total	mg/L	0.1	0.0025
Conductivity	umhos/cm		42
Copper (Cu)-Total	mg/L	1	0.0047
Dissolved solids	mg/L		28
Hardness CaCO3	mg/L		14
Iron (Fe)-Total	mg/L		1.21
Lead (Pb)-Total	mg/L	0.05	0.0021
Lithium (Li)-Total	mg/L		<0.005
Magnesium (Mg)-Total	mg/L		0.78
Manganese (Mn)-Total	mg/L		0.0517
Mercury (Hg)-Total	mg/L	0.0006	<0.00001
Molybdenum (Mo)-Total	mg/L		<0.0005
NH3 - ammonia	mg/L		<0.01
Nickel (Ni)-Total	mg/L	1	0.0021
Total Oil & Grease-(IR)	mg/L	15	<1
Nitrate (NO3) mg N/L	mg/L		0.03
Nitrite (NO2) mg N/L	mg/L		<0.01
Ortho-Phosphate (O-PO4)	mg/L		<0.01
pH		6.0 to 9.5	6.93
Phosphorus (P)-Total	mg/L		
Potassium (K)-Total	mg/L		0.81
Rubidium (Rb)-Total	mg/L		
Selenium (Se)-Total	mg/L		0.001
Silicon (Si)-Total	mg/L		
Silver (Ag)-Total	mg/L	0.1	<0.0001
Sodium (Na)-Total	mg/L		1.02
Strontium (Sr)-Total	mg/L		0.025
Sulfate (SO4)	mg/L		<0.6
Tellurium (Te)-Total	mg/L		
Thallium (Tl)-Total	mg/L		
Thorium (Th)-Total	mg/L		
Tin (Sn)-Total	mg/L		<0.001
Titanium (Ti)-Total	mg/L		0.01
Total Suspended Solids	mg/L	15	24
Tungsten (W)-Total	mg/L		
Turbidity	NTU		28.1
Uranium (U)-Total	mg/L		<0.001
Vanadium (V)-Total	mg/L		<0.0005
Zinc (Zn)-Total	mg/L	0.5	0.028
Zirconium (Zr)-Total	mg/L		

As per Section 2 of INAC Water License Inspection Dated April 12, 2016:

III. Amend the 2BB-MEL1424 monitoring program to include, at a minimum, a regular compliance point at DP3-A and A54.

See maps below for sample locations. A54 is taken at the same location as in past years.





IV. Modify the monthly monitoring reports, starting April 2016, to include, at a minimum, an updates of the construction of the containment structures, waste water treatment options; modifications of the freshet action plan, sampling, and analysis of those results.

An update of the construction of the containment structures: during the month of May the civil portion of construction was completed on the P1 containment structures.

Waste water treatment options: Pumping within the P system all P3 & P2 is being pumped to P1, Daily inspections were completed by environmental technicians, Evaporators commissioning completed and start up commenced.

Regular inspections take place to check on direction of evaporation curtain to ensure the evaporation curtain is remaining inside the P1 containment area.

Modifications of the freshet action plan: Currently no modifications to the freshet action plan are noted.

Sampling and analysis of those results: Below are the sampling results related to the P1 containment area for the month of June.

P1 Cell

P1 cell					
Date		7-Jun-16	12-Jun-16	19-Jun-16	26-Jun-16
field pH		7.50		8.11	
field cond.				4.87	
field temp		5.80		7.10	
Project		54345	54557	54853	55148
Sample		P1-Cell	P1-Cell	P1-Cell	P1-Cell
Sampling location		P1-Cell	P1-Cell	P1-Cell	P1-Cell
Water distribution system		PO# 494982	PO# 494982	PO# 494982	PO# 494982
Sampling date		07 june 2016 13:05	12 june 2016 14:52	6/19/2016 14:51	26 june 2016 11:22
Sampler name		Phillip Roy	Alexandre Gauthier	Justin MacMillan	JM & PR
Alkalinity mg CaCO3/L		52	56	63	65
Aluminium (Al) mg/L		1.48	0.345	0.263	0.183
Ammonia nitrogen (NH3-NH4) mg N/L		1.92	19.8	34.7	33.3
Antimony (Sb) mg/L	<	0.0001	< 0.0001	< 0.0001	0.0004
Arsenic (As) mg/L		0.0066	0.0136	0.0185	0.0258
Barium (Ba) mg/L		0.0486	0.1663	0.2202	0.2592
Beryllium (Be) mg/L	<	0.0005	< 0.0005	< 0.0005	< 0.0005
Bicarbonate (HCO3) mg CaCO3/L		52	56	63	65
Boron (B) mg/L		0.12	0.2	0.41	0.44
BTEX (L)		---	---	---	< 0.3
Cadmium (Cd) mg/L		0.00003	0.00012	0.00005	0.00012
Calcium (Ca) mg/L		54.1	324	548	560
Carbonate (CO3) mg CaCO3/L	<	2	< 2	< 2	< 2
Chloride (Cl) mg/L		117	776	1402	1530
Chromium (Cr) mg/L		0.0085	0.0028	< 0.0006	< 0.0006
Conductivity µmhos/cm		471	2270	4192	4525
Copper (Cu) mg/L		0.0095	0.0053	0.004	0.0045
Dissolved Aluminium (Al) mg/L		0.012	0.007	0.006	0.012
Dissolved Antimony (Sb) mg/L	<	0.0001	< 0.0001	< 0.0001	0.0004
Dissolved Arsenic (As) mg/L	<	0.0005	0.0087	0.0155	0.0248
Dissolved Barium (Ba) mg/L		0.0331	0.1612	0.2244	0.2531
Dissolved Beryllium (Be) mg/L	<	0.0005	0.0005	< 0.0005	< 0.0005
Dissolved Boron (B) mg/L		0.07	0.15	0.4	0.47
Dissolved Cadmium (Cd) mg/L		0.00003	0.00004	0.00005	0.00007
Dissolved Chromium (Cr) mg/L		0.0007	0.0022	< 0.0006	< 0.0006
Dissolved Copper (Cu) mg/L		0.0058	0.0034	0.0035	0.0042
Dissolved Iron (Fe) mg/L		0.03	0.04	0.08	0.07
Dissolved Lead (Pb) mg/L	<	0.0003	< 0.0003	< 0.0003	< 0.0003
Dissolved Lithium (Li) mg/L		0.059	0.501	0.784	0.866
Dissolved Manganese (Mn) mg/L		0.0739	0.6777	0.4479	0.4462
Dissolved Mercury (Hg) mg/L	<	0.00001	< 0.0001	< 0.0001	< 0.00001
Dissolved Molybdenum (Mo) mg/L		0.0006	0.0006	0.0014	0.0012
Dissolved Nickel (Ni) mg/L		0.003	0.0093	0.0228	0.0309
Dissolved organic carbon (D.O.C.) mg/L		8.3	9.8	9	10.9
Dissolved Selenium (Se) mg/L		0.002	0.013	0.032	0.042
Dissolved Solids mg/L		314	1513	2794	3016
Dissolved Strontium (Sr) mg/L		0.759	7.6	13.32	14.48
Dissolved thallium (Tl) mg/L	<	0.002	< 0.002	< 0.002	< 0.002
Dissolved Tin (Sn) mg/L	<	0.001	< 0.001	< 0.001	< 0.001
Dissolved titanium (Ti) mg/L		0.04	0.22	0.4	0.26
Dissolved Uranium (U) mg/L	<	0.001	< 0.001	0.001	< 0.001
Dissolved Vanadium mg/L		0.0007	< 0.0005	< 0.0005	< 0.0005
Dissolved Zinc mg/L		0.001	0.012	0.003	0.013
Hardness mg CaCO3/L		160	905	1532	1566
Hydrocarbons (L) (Fraction F1 (C6-C10)) µg/L		0.4	< 0.3	< 0.3	< 0.3
Hydrocarbons (L) (Fraction F2 - F4))					
- Petroleum Hydrocarbons F3 (C16-34) µg/L		---	---	< 200	< 200
- Petroleum Hydrocarbons F2 (C10-C16) µg/L		---	---	< 100	< 100
- Petroleum Hydrocarbons F4 (C34-50) µg/L		---	---	< 200	< 200
Iron (Fe) mg/L		2.53	0.82	0.48	0.54
Kjeldahl nitrogen mg N/L		2.82	20	29.3	34
Lead (Pb) mg/L	<	0.0003	< 0.0003	< 0.0003	< 0.0003
Lithium (Li) mg/L		0.059	0.494	0.741	0.972
Magnesium (Mg) mg/L		6.13	23.4	39.8	40.8
Manganese (Mn) mg/L		0.1068	0.7	0.484	0.4622
Mercury (Hg) mg/L	<	0.00001	< 0.0001	< 0.0001	< 0.00001
Molybdenum (Mo) mg/L	<	0.0005	< 0.0005	0.0015	0.0013
NH3 (nonionized) AMMONIA mg N/L		0.02	0.13	0.35	0.23
Nickel (Ni) mg/L		0.0078	0.0107	0.0244	0.0309
Nitrate (NO3) mg N/L		2.43	21.4	35.3	42.6
Nitrite-Nitrate mg N/L		2.51	22.3	36.4	43.8
Nitrite (NO2) mg N/L		0.08	0.85	1.1	1.11
Ortho-Phosphate (O-PO4) mg P/L	<	0.01	< 0.01	< 0.01	0.01
pH		7.41	7.27	7.64	7.54
pH terrain		7.5	7.2	8.11	7.73
Potassium (K) mg/L		4.64	21.2	34.7	33.9
Reactive Silica (Si) mg/L		2.4	3	3.6	4.2
Selenium (Se) mg/L		0.001	0.013	0.034	0.04
Sodium (Na) mg/L		11.9	93.1	178	172
Strontium (Sr) mg/L		0.809	7.51	12.64	14.24
Sulfate (SO4) mg SO4/L		9.5	30.7	56.6	58.3
Temperature °C		5.8	13	7.1	14.8
Thallium (Tl) mg/L	<	0.002	< 0.002	< 0.002	< 0.002
Tin (Sn) mg/L	<	0.001	< 0.001	< 0.001	< 0.001
Titanium (Ti) mg/L		0.1	0.23	0.45	0.24
Total organic carbon (T.O.C.) mg/L		10.2	13.3	10.3	14.6
Total Phosphorus (P) mg P/L		0.05	0.07	0.11	0.04
Total Suspended Solids mg/L		37	21	9	10
Turbidity UTN		59.1	19.2	7.8	10.7
Uranium (U) mg/L	<	0.001	< 0.001	0.001	< 0.001
Vanadium (V) mg/L		0.0038	< 0.0005	< 0.0005	< 0.0005
Zinc (Zn) mg/L		0.012	0.015	0.021	0.016

P2 Cell

P2 Cell				
Date	7-Jun-16	12-Jun-16	19-Jun-16	26-Jun-16
field pH	7.50		8.11	8.14
field cond.			4.87	5.1
field temp	5.80		7.10	14.5
Project	54346	54558	54854	55149
Sample	P2-Cell	P2-Cell	P2-Cell	P2-Cell
Sampling location	P2-Cell	P2-Cell	P2-Cell	P2-Cell
Water distibution system	PO# 494982	PO# 494982	PO# 494982	PO# 494982
Sampling date	6/7/2016 13:10	6/12/2016 13:45	6/19/2016 14:05	6/26/2016 11:43
Sampler name	Phillip Roy	Alexandre Gauthier	Justin MacMillan	JM & PR
Alkalinity mg CaCO3/L	57	61	65	66
Aluminium (Al) mg/L	0.354	0.254	0.226	0.076
Ammonia nitrogen (NH3-NH4) mg N/L	28.2	29.4	36.3	36.8
Antimony (Sb) mg/L	< 0.0001	< 0.0001	< 0.0001	0.0004
Arsenic (As) mg/L	0.0036	0.0184	0.0163	0.0281
Barium (Ba) mg/L	0.1824	0.1869	0.2413	0.2346
Beryllium (Be) mg/L	0.001	< 0.0005	< 0.0005	< 0.0005
Bicarbonate (HCO3) mg CaCO3/L	57	61	65	66
Boron (B) mg/L	0.36	0.31	0.38	0.46
BTEX (L)	---	---	---	< 0.3
Cadmium (Cd) mg/L	0.00011	0.00016	< 0.00002	0.00008
Calcium (Ca) mg/L	419	445	544	622
Carbonate (CO3) mg CaCO3/L	< 2	< 2	< 2	< 2
Chloride (Cl) mg/L	1048	1140	1475	1647
Chromium (Cr) mg/L	0.0068	0.0016	< 0.0006	< 0.0006
Conductivity µmhos/cm	2671	2877	4326	4851
Copper (Cu) mg/L	0.0046	0.0057	0.0039	0.0049
Dissolved Aluminium (Al) mg/L	< 0.006	0.007	0.012	0.012
Dissolved Antimony (Sb) mg/L	< 0.0001	< 0.0001	< 0.0001	0.0005
Dissolved Arsenic (As) mg/L	< 0.0005	0.0188	0.0153	0.0271
Dissolved Barium (Ba) mg/L	0.1754	0.1829	0.224	0.2194
Dissolved Beryllium (Be) mg/L	< 0.0005	0.0006	< 0.0005	< 0.0005
Dissolved Boron (B) mg/L	0.36	0.27	0.39	0.44
Dissolved Cadmium (Cd) mg/L	0.00016	0.00013	0.00011	0.00005
Dissolved Chromium (Cr) mg/L	0.0016	0.0017	< 0.0006	< 0.0006
Dissolved Copper (Cu) mg/L	0.0045	0.0048	0.0035	0.0048
Dissolved Iron (Fe) mg/L	0.04	0.03	0.17	0.06
Dissolved Lead (Pb) mg/L	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Dissolved Lithium (Li) mg/L	0.677	0.669	0.832	0.862
Dissolved Manganese (Mn) mg/L	0.5716	0.5653	0.4633	0.3207
Dissolved Mercury (Hg) mg/L	< 0.00001	< 0.0001	< 0.0001	< 0.00001
Dissolved Molybdenum (Mo) mg/L	0.0011	0.0009	0.0012	0.0015
Dissolved Nickel (Ni) mg/L	0.0113	0.0145	0.0234	0.0369
Dissolved organic carbon (D.O.C.) mg/L	8.4	8.5	8.2	11.9
Dissolved Selenium (Se) mg/L	0.016	0.019	0.032	0.047
Dissolved Solids mg/L	1780	1918	2884	3234
Dissolved Strontium (Sr) mg/L	9.88	11	13.71	15.54
Dissolved thallium (Tl) mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Dissolved Tin (Sn) mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dissolved titanium (Ti) mg/L	0.18	0.29	0.39	0.27
Dissolved Uranium (U) mg/L	< 0.001	< 0.001	< 0.001	0.001
Dissolved Vanadium mg/L	0.0006	< 0.0005	< 0.0005	< 0.0005
Dissolved Zinc mg/L	0.01	0.012	0.008	0.011
Hardness mg CaCO3/L	1180	1240	1519	1742
Hydrocarbons (L) (Fraction F1 (C6-C10)) µg/L	< 0.3	< 0.3	< 0.3	< 0.3
Hydrocarbons (L) (Fraction F2 - F4))				
- Petroleum Hydrocarbons F3 (C16-34) µg/L	---	---	< 200	< 200
- Petroleum Hydrocarbons F2 (C10-C16) µg/L	---	---	< 100	< 100
- Petroleum Hydrocarbons F4 (C34-50) µg/L	---	---	< 200	< 200
Iron (Fe) mg/L	0.67	0.74	0.46	0.23
Kjeldahl nitrogen mg N/L	24.6	27	30.1	37
Lead (Pb) mg/L	< 0.0003	< 0.0003	0.0011	< 0.0003
Lithium (Li) mg/L	0.707	0.645	0.789	0.967
Magnesium (Mg) mg/L	32.7	31.3	39.2	46
Manganese (Mn) mg/L	0.5473	0.573	0.478	0.3839
Mercury (Hg) mg/L	< 0.00001	< 0.0001	< 0.0001	< 0.00001
Molybdenum (Mo) mg/L	0.0008	0.001	0.0013	0.0017
NH3 (nonionized) AMMONIA mg N/L	0.25	0.26	0.39	0.42
Nickel (Ni) mg/L	0.0136	0.0151	0.0249	0.0374
Nitrate (NO3) mg N/L	23.8	32.3	37.1	44.7
Nitrite-Nitrate mg N/L	24.7	33.2	38.2	45.8
Nitrite (NO2) mg N/L	0.89	0.9	1.09	1.03
Ortho-Phosphate (O-PO4) mg P/L	0.02	< 0.01	< 0.01	0.01
pH	7.43	7.47	7.67	7.75
pH terrain	6.9	7.5	7.85	8.14
Potassium (K) mg/L	25.8	28.1	34.4	36.3
Reactive Silica (Si) mg/L	2.3	2.6	3.5	3.3
Selenium (Se) mg/L	0.015	0.02	0.036	0.048
Sodium (Na) mg/L	118	129	170	180
Strontium (Sr) mg/L	9.38	10.87	13.31	15.01
Sulfate (SO4) mg SO4/L	41.5	37.7	54.3	64.8
Temperature °C	5.5	12.7	6.4	14.5
Thallium (Tl) mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Tin (Sn) mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Titanium (Ti) mg/L	0.18	0.3	0.41	0.26
Total organic carbon (T.O.C.) mg/L	10.4	10.1	9.3	14.2
Total Phosphorus (P) mg P/L	0.04	0.05	0.12	0.04
Total Suspended Solids mg/L	13	14	6	9
Turbidity UTN	16.3	14.2	8.73	5.83
Uranium (U) mg/L	< 0.001	< 0.001	< 0.001	0.001
Vanadium (V) mg/L	0.0018	< 0.0005	< 0.0005	< 0.0005
Zinc (Zn) mg/L	0.015	0.017	0.039	0.016

P3 Cell

P3 cell				
Date	7-Jun-16	12-Jun-16	19-Jun-16	26-Jun-16
field pH			8.02	8.01
field cond.			4.87	4.88
field temp			7.2	14.3
Project	54347	54559	54855	55150
Sample	P3-Cell	P3-Cell	P3-Cell	P3-Cell
Sampling location	P3-Cell	P3-Cell	P3-Cell	P3-Cell
Water distibution system	PO# 494982	PO# 494982	PO# 494982	PO# 494982
Sampling date	6/7/2016 13:20	6/12/2016 11:34	6/19/2016 13:55	6/26/2016 11:54
Sampler name	Phillip Roy	Alexandre Gauthier	Justin MacMillan	JM & PR
Alkalinity mg CaCO3/L	60	57	61	63
Aluminium (Al) mg/L	0.494	0.189	0.142	0.062
Ammonia nitrogen (NH3-NH4) mg N/L	49.6	35.4	35.8	36.9
Antimony (Sb) mg/L	< 0.0001	0.0002	< 0.0001	0.0005
Arsenic (As) mg/L	0.0139	0.0233	0.0237	0.034
Barium (Ba) mg/L	0.2235	0.1784	0.209	0.2124
Beryllium (Be) mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bicarbonate (HCO3) mg CaCO3/L	60	57	61	63
Boron (B) mg/L	0.71	0.45	0.45	0.43
BTEX (L)	---	---	---	0.6
Cadmium (Cd) mg/L	0.00026	0.00025	0.00004	0.00011
Calcium (Ca) mg/L	737	488	594	557
Carbonate (CO3) mg CaCO3/L	< 2	< 2	< 2	< 2
Chloride (Cl) mg/L	1779	1343	1472	1561
Chromium (Cr) mg/L	0.0096	< 0.0006	< 0.0006	0.0009
Conductivity µmhos/cm	3809	3152	4334	4598
Copper (Cu) mg/L	0.0074	0.0065	0.0047	0.005
Dissolved Aluminium (Al) mg/L	0.012	0.011	0.012	0.011
Dissolved Antimony (Sb) mg/L	< 0.0001	< 0.0001	< 0.0001	0.0004
Dissolved Arsenic (As) mg/L	0.0087	0.0242	0.0215	0.0314
Dissolved Barium (Ba) mg/L	0.214	0.1709	0.2033	0.1984
Dissolved Beryllium (Be) mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dissolved Boron (B) mg/L	0.61	0.37	0.49	0.4
Dissolved Cadmium (Cd) mg/L	0.00019	0.00013	0.0001	0.00004
Dissolved Chromium (Cr) mg/L	0.0015	0.0007	< 0.0006	< 0.0006
Dissolved Copper (Cu) mg/L	0.0071	0.0065	0.0041	0.0048
Dissolved Iron (Fe) mg/L	0.05	0.03	0.05	0.06
Dissolved Lead (Pb) mg/L	< 0.0003	0.0009	< 0.0003	< 0.0003
Dissolved Lithium (Li) mg/L	1.2	0.737	0.832	0.849
Dissolved Manganese (Mn) mg/L	0.7941	0.552	0.4743	0.2468
Dissolved Mercury (Hg) mg/L	< 0.00001	< 0.0001	< 0.0001	< 0.00001
Dissolved Molybdenum (Mo) mg/L	0.0021	0.0019	0.0016	0.0016
Dissolved Nickel (Ni) mg/L	0.0279	0.0208	0.0252	0.0379
Dissolved organic carbon (D.O.C.) mg/L	7.4	7.5	10.3	10.2
Dissolved Selenium (Se) mg/L	0.025	0.02	0.031	0.042
Dissolved Solids mg/L	2539	2101	2889	3065
Dissolved Strontium (Sr) mg/L	18.67	12.99	13.86	14.49
Dissolved thallium (Tl) mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Dissolved Tin (Sn) mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dissolved titanium (Ti) mg/L	0.36	0.27	0.38	0.22
Dissolved Uranium (U) mg/L	0.001	0.001	0.001	0.001
Dissolved Vanadium mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dissolved Zinc mg/L	0.013	0.01	0.001	0.008
Hardness mg CaCO3/L	2089	1370	1663	1567
Hydrocarbons (L) (Fraction F1 (C6-C10)) µg/L	< 0.3	< 0.3	< 0.3	0.6
Hydrocarbons (L) (Fraction F2- F4))				
- Petroleum Hydrocarbons F3 (C16-34) µg/L	---	---	< 200	< 200
- Petroleum Hydrocarbons F2 (C10-C16) µg/L	---	---	< 100	< 100
- Petroleum Hydrocarbons F4 (C34-50) µg/L	---	---	< 200	< 200
Iron (Fe) mg/L	1.06	0.42	0.32	0.22
Kjeldahl nitrogen mg N/L	42.2	32	31.5	31.8
Lead (Pb) mg/L	< 0.0003	0.0012	< 0.0003	< 0.0003
Lithium (Li) mg/L	1.25	0.707	0.76	1.28
Magnesium (Mg) mg/L	60.4	37	43.9	43
Manganese (Mn) mg/L	0.82	0.5581	0.5253	0.2878
Mercury (Hg) mg/L	< 0.00001	< 0.0001	< 0.0001	< 0.00001
Molybdenum (Mo) mg/L	0.002	0.0018	0.0018	0.0017
NH3 (nonionized) AMMONIA mg N/L	0.33	0.39	0.4	0.31
Nickel (Ni) mg/L	0.0322	0.0209	0.0304	0.04
Nitrate (NO3) mg N/L	52.3	36.8	38.5	42.8
Nitrite-Nitrate mg N/L	54.2	38	39.7	44
Nitrite (NO2) mg N/L	1.87	1.14	1.13	1.11
Ortho-Phosphate (O-PO4) mg P/L	0.01	< 0.01	< 0.01	0.01
pH	7.38	7.57	7.7	7.64
pH terrain	6.7	7.6	8.02	8.01
Potassium (K) mg/L	46.9	32.8	39.3	33
Reactive Silica (Si) mg/L	2.3	2.4	3.2	3.4
Selenium (Se) mg/L	0.028	0.02	0.036	0.042
Sodium (Na) mg/L	256	160	201	159
Strontium (Sr) mg/L	18.43	12.73	12.98	19.08
Sulfate (SO4) mg SO4/L	89.3	50.4	59.8	65.9
Temperature °C	5	11.6	7.2	14.3
Thallium (Tl) mg/L	< 0.002	< 0.002	< 0.0008	< 0.002
Tin (Sn) mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Titanium (Ti) mg/L	0.33	0.28	0.48	0.21
Total organic carbon (T.O.C.) mg/L	9.2	9	10.8	15.1
Total Phosphorus (P) mg P/L	0.05	0.05	0.12	0.05
Total Suspended Solids mg/L	12	12	5	7
Turbidity UTN	14.5	8.1	6.91	5.73
Uranium (U) mg/L	0.001	0.001	0.001	0.001
Vanadium (V) mg/L	0.0026	< 0.0005	< 0.0005	< 0.0005
Zinc (Zn) mg/L	0.018	0.013	0.016	0.011

DP3-A Base

GPS coordinates (E/N) NAD 83	
Field Data	
field pH	
field cond. mS/cm	
field temp : °C	
Project	54560
Sample	DP3-Base
Sampling location	DP3-Base
Water distribution system	PO# 494982
Sampling date	12 june 2016 11:55
Sampler name	Alexandre Gauthier
Alkalinity mg CaCO3/L	70
Aluminium (Al) mg/L	0.016
Ammonia nitrogen (NH3-NH4) mg N/L	1.73
Antimony (Sb) mg/L	0.0001
Arsenic (As) mg/L	0.0076
Barium (Ba) mg/L	0.0406
Beryllium (Be) mg/L	0.0005
Bicarbonate (HCO3) mg CaCO3/L	70
Boron (B) mg/L	0.01
Cadmium (Cd) mg/L	0.00002
Calcium (Ca) mg/L	103
Carbonate (CO3) mg CaCO3/L	< 2
Chloride (Cl) mg/L	190
Chromium (Cr) mg/L	0.0006
Conductivity µmhos/cm	844
Copper (Cu) mg/L	0.0019
Dissolved Aluminium (Al) mg/L	< 0.006
Dissolved Antimony (Sb) mg/L	< 0.0001
Dissolved Arsenic (As) mg/L	0.0023
Dissolved Barium (Ba) mg/L	0.0389
Dissolved Beryllium (Be) mg/L	< 0.0005
Dissolved Boron (B) mg/L	0.01
Dissolved Cadmium (Cd) mg/L	< 0.00002
Dissolved Chromium (Cr) mg/L	0.0006
Dissolved Copper (Cu) mg/L	0.0017
Dissolved Iron (Fe) mg/L	0.06
Dissolved Lead (Pb) mg/L	< 0.0003
Dissolved Lithium (Li) mg/L	0.125
Dissolved Manganese (Mn) mg/L	0.0679
Dissolved Mercury (Hg) mg/L	< 0.0001
Dissolved Molybdenum (Mo) mg/L	0.0006
Dissolved Nickel (Ni) mg/L	0.0061
Dissolved organic carbon (D.O.C.) mg/L	7.5
Dissolved Selenium (Se) mg/L	0.002
Dissolved Solids mg/L	563
Dissolved Strontium (Sr) mg/L	1.46
Dissolved thallium (Tl) mg/L	< 0.002
Dissolved Tin (Sn) mg/L	< 0.001
Dissolved titanium (Ti) mg/L	0.05
Dissolved Uranium (U) mg/L	0.001
Dissolved Vanadium mg/L	< 0.0005
Dissolved Zinc mg/L	0.001
Hardness mg CaCO3/L	297
Hydrocarbons (L) (Fraction F1 (C6-C10)) µg/L	< 0.3
Hydrocarbons (L) (Fraction F2 - F4))	
- Petroleum Hydrocarbons F3 (C16-34) µg/L	< ---
- Petroleum Hydrocarbons F2 (C10-C16) µg/L	< ---
- Petroleum Hydrocarbons F4 (C34-50) µg/L	< ---
Iron (Fe) mg/L	0.18
Kjeldahl nitrogen mg N/L	2.24
Lead (Pb) mg/L	< 0.0003
Lithium (Li) mg/L	0.128
Magnesium (Mg) mg/L	9.84
Manganese (Mn) mg/L	0.0777
Mercury (Hg) mg/L	< 0.0001
Molybdenum (Mo) mg/L	0.0006
NH3 (nonionized) AMMONIA mg N/L	0.04
Nickel (Ni) mg/L	0.0059
Nitrate (NO3) mg N/L	1.7
Nitrite-Nitrate mg N/L	1.78
Nitrite (NO2) mg N/L	0.08
Ortho-Phosphate (O-PO4) mg P/L	0.01
pH	7.91
pH field	8
Potassium (K) mg/L	6.95
Reactive Silica (Si) mg/L	0.4
Selenium (Se) mg/L	0.002
Sodium (Na) mg/L	20.3
Strontium (Sr) mg/L	1.4
Sulfate (SO4) mg SO4/L	23.3
Temperature °C	14.4
Thallium (Tl) mg/L	< 0.002
Tin (Sn) mg/L	< 0.001
Titanium (Ti) mg/L	0.05
Total organic carbon (T.O.C.) mg/L	9.6
Total Phosphorus (P) mg P/L	0.01
Total Suspended Solids mg/L	< 1
Turbidity UTN	1.29
Uranium (U) mg/L	0.001
Vanadium (V) mg/L	< 0.0005
Zinc (Zn) mg/L	0.003