AGNICO EAGLE

MELIADINE GOLD PROJECT

ENVIRONMENTAL REPORT: AUGUST 2016

WATER LICENCE 2BB-MEL1424

SUBMITTED 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 **46.75 m³/day** for the month of August; 0 m³/day for the drilling, 37.71 m³/day*** for the camp and 4.69 m³/day for the underground, as well 0.9 m³/day were used for 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.***

   166 m^3 of soil entered.

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.***

   Soil samples will be taken as per Part D Item 19 prior to removal from the Landfarm Facility. If results meet Government of Nunavut's criteria, soil will be removed from the Facility.

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 and construction water sources: 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 183 and 216 persons.

No exceedances in the month of August. No microbiological analyses were completed during the first week of the month due to bad weather. Samples were delivered to the lab past their hold times.

Station: STP-FINAL		August					
DATE	**Limits**	**8/1/2016**	**8/3/2016**	**8/8/2016**	**8/15/2016**	**8/22/2016**	**8/29/2016**
Ammonia as N (mg/L)		40.3	0.26	30.0	0.1	0.25	0.08
Atypical		Bad weather delay	Bad weather delay	3300	18000	8900	61000
Biochemical Oxygen Demand	80	5	5	8	10	9	19
Fecal Coliforms	1000			<2	<2	<2	<2
Heterotrophic Plate Count (AAHB)				69000	>300000	68000	34000
Kjeldahl nitrogen		44	27.7	31	40	42	28
Nitrate and Nitrite as N		2.3	0.02	2.6	25.5	24.8	24.6
Nitrate-N		0.03	0.02	1.1	23.3	23.6	22.8
Nitrite-N		2.3	<0.01	1.5	2.1	1.19	1.71
Oil & Grease-(IR)	5	<1	<1	<1	<1	3.0	2
pH	6.0 - 9.5	7.35	7.01	7.36	7.40	7.43	7.11
Phosphorus (P)-Total		14.8	14.2	12.8	16.7	14.4	11.7
Total Coliforms				<100	36000	<1000	<1000
Total Suspended Solids	100	7	4	9	2	5	2
Transmitance %		32	43	30	29	31	26

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.***

    - 36.34 m^3 of water was released in August from MEL-6.

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 August on any lake.

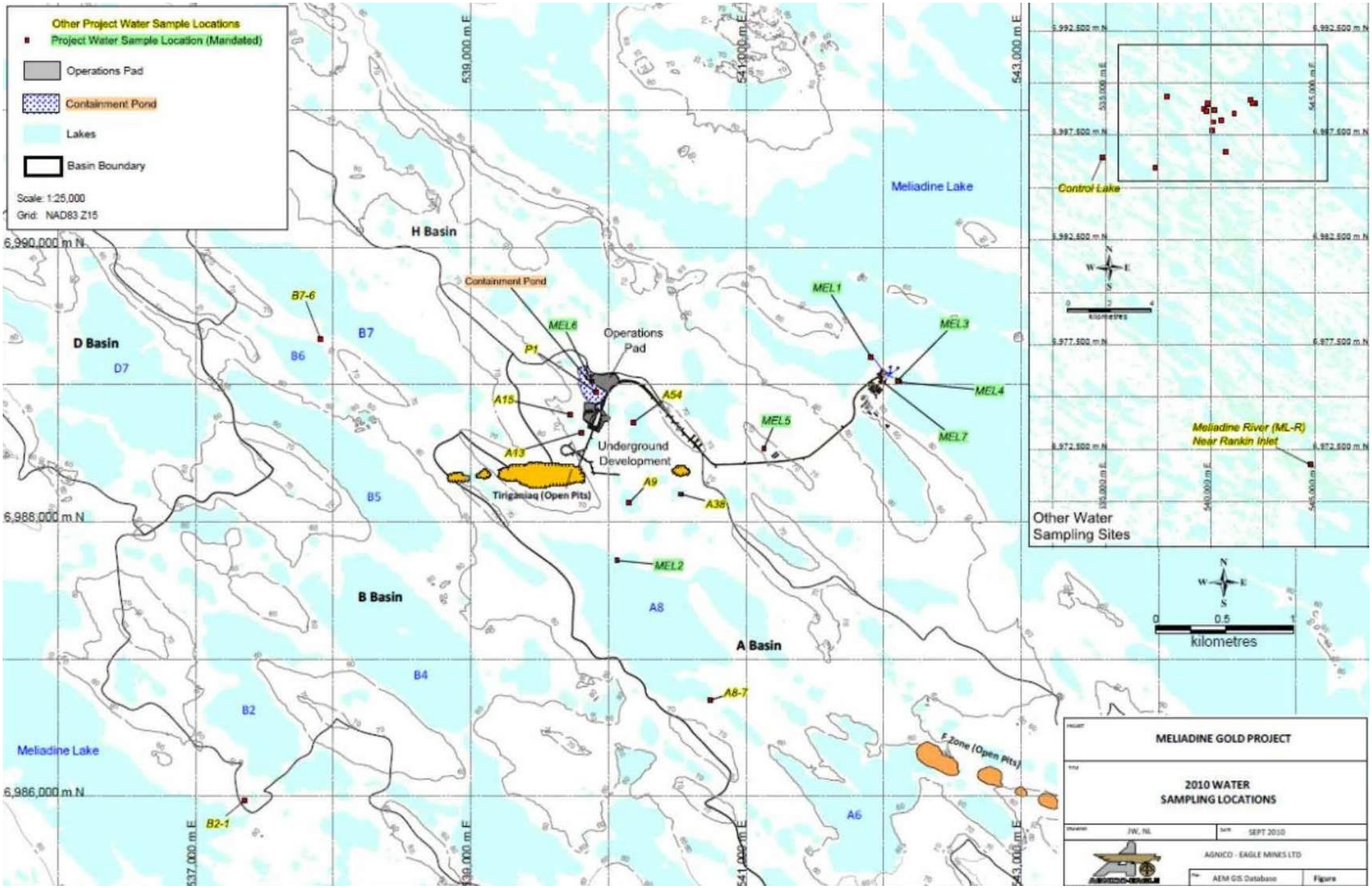
10. **The inspector, Christine Wilson (INAC inspector), requested AEM to** continue monitoring the ponded water at the rear of these facilities during times of flow with the same parameters as MEL-8 and the result must be included in the monthly monitoring report provided to the Nunavut Water Board ("the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

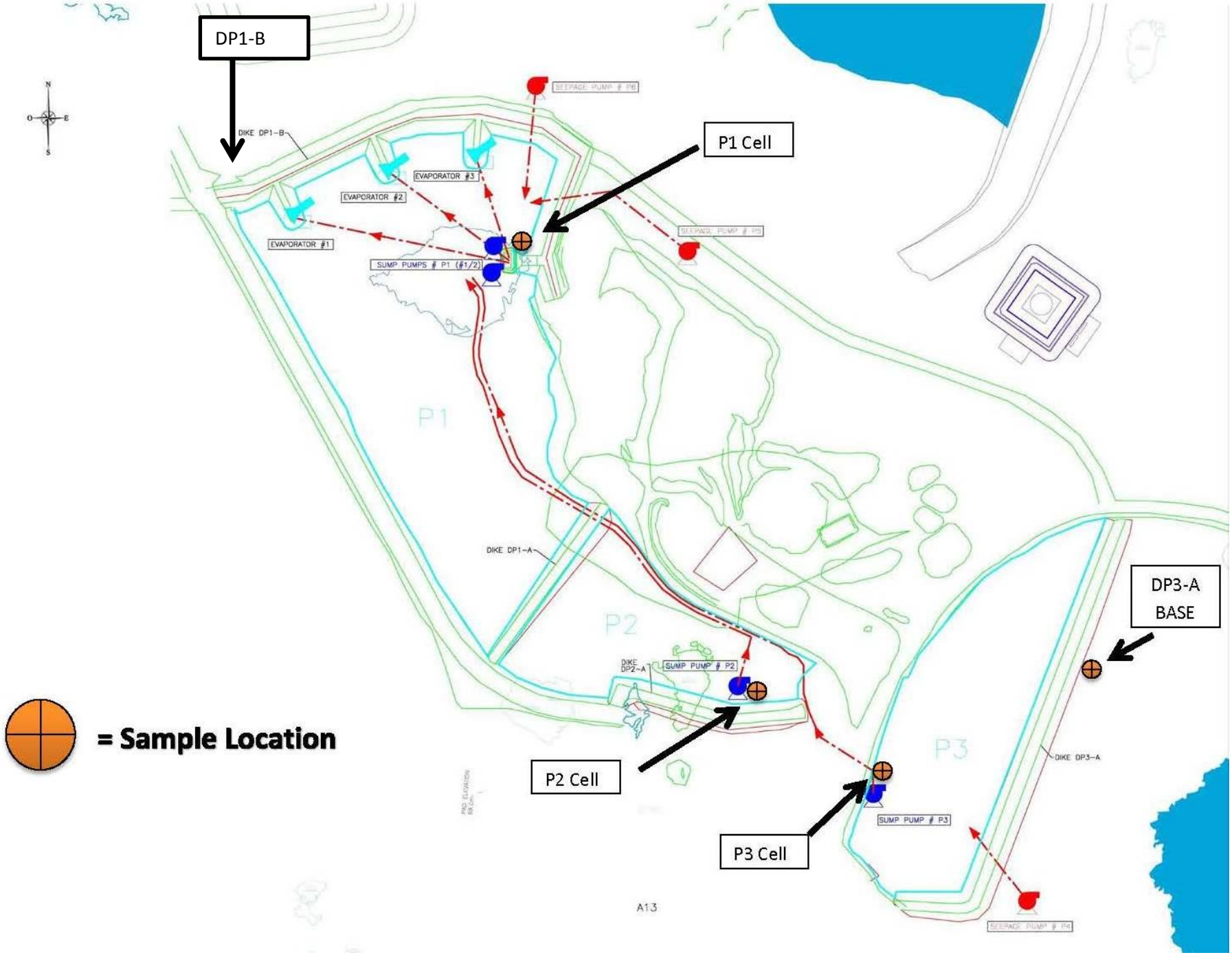
    - No samples were collected for MEL-8 this month.

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.


Other Project Water Sample Locations
Project Water Sample Location (Mandated)
Operations Pad
Containment Pond
Lakes
Basin Boundary
Scale: 1:25,000
Grid: NAD83 Z15
6,990,000 m N
6,988,000 m N
6,986,000 m N
539,000 m E
541,000 m E
543,000 m E
537,000 m E
H Basin
D Basin
B Basin
A Basin
D7
B7
B6
B5
B4
B2
A8
A6
Meliadine Lake
Containment Pond
Operations Pad
Underground Development
Tiriganiaq (Open Pits)
F Zone (Open Pits)
B7-6
B2-1
MEL1
MEL2
MEL3
MEL4
MEL5
MEL6
MEL7
P1
A15
A13
A54
A9
A38
A8-7
Control Lake
Meliadine River (ML-R) Near Rankin Inlet
Other Water Sampling Sites
N
W
E
S
0
0.5
1
kilometres
MELIADINE GOLD PROJECT
2010 WATER SAMPLING LOCATIONS
JW, NL
SEPT 2010
AGNICO - EAGLE MINES LTD
AEM GIS Database
Figure


DP1-B
P1 Cell
P2 Cell
P3 Cell
DP3-A
BASE
= Sample Location
DIKE DP1-B
EVAPORATOR #3
EVAPORATOR #2
EVAPORATOR #1
SUMP PUMPS # P1 (#1/2)
SEEPAGE PUMP # P6
SEEPAGE PUMP # P5
DIKE DP1-A
DIKE DP2-A
SUMP PUMP # P2
DIKE DP3-A
SUMP PUMP # P3
SEEPAGE PUMP # P4
P1
P2
P3
A13

IV. Modify the monthly monitoring reports, starting April 2016, to include, at a minimum, an update 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: Construction of the containment structures was completed June 28th. A Construction Summary Report will be submitted to the board in September.

Waste water treatment options: Water contained in P3 and P2 is being pumped to P1. Daily inspections were completed by environmental technicians. Evaporators were in operation throughout the month when weather was favorable.

Regular inspections took 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 August.

Seep: In the month of July a seep was noted at the toe of the DP1-B berm. Immediately a sump was dug to catch the seep and a pump was installed to pump the seep water back into the P1 containment. The pump was in operation throughout the month of August.

P1 Cell

P1 cell					
Date	**7-Aug-16**	**9-Aug-16**	**16-Aug-16**	**23-Aug-16**	**30-Aug-16**
field pH	8.18	8.06	7.91	8.09	8.05
field cond.		9.36	10.6	11.06	12.8
field temp	9.2	11.4	15.5	13.2	10.7
Project	56912	B6H0446			
Sample	P1	P1-Cell	P1-Cell	P1-Cell	P1-Cell
Sampling location	Meliadine	P1-Cell	P1-Cell	P1-Cell	P1-Cell
Water distibution system	OL-494982	494982	494982	494982	494982
Sampling date	7-Aug-16	9-Aug-16	16-Aug-16	23-Aug-16	30-Aug-16
Sampler name	Philip Roy	PR	JM & AG	JM & JT	PR
Alkalinity | mg CaCO3/L	99	100	100	94	98
Aluminium (Al) | mg/L	<0.006	0.0503	0.0363	0.147	0.0283
Ammonia nitrogen (NH3-NH4) | mg N/L	103	58	69	67	85
Antimony (Sb) | mg/L	0.0003	0.00057	0.00083	0.00061	0.00056
Arsenic (As) | mg/L	0.0061	0.00708	0.00539	0.00543	0.0045
Barium (Ba) | mg/L	0.534	0.582	0.594	0.641	0.725
Beryllium (Be) | mg/L	<0.0005	< 0.0001	<0.00010	<0.000050	<0.00010
Total Bismuth (Bi) | mg/L				<0.000050	
Bicarbonate (HCO3) | mg CaCO3/L	99	100	100	93	98
Boron (B) | mg/L	0.92	0.806	0.937	0.851	0.877
Cadmium (Cd) | mg/L	0.0002	0.00244	0.000367	0.000276	0.000381
Dissolved Calcium (Ca) | mg/L		1190	1510	1890	1890
Calcium (Ca) | mg/L	1319	1270	1270	1720	1940
Carbonate (CO3) | mg CaCO3/L	<2	ND	<1.0	<1.0	<1.0
Chloride (Cl) | mg/L	3123				
Dissolved Chloride (Cl) | mg/L		3200	4100	4000	4700
Chromium (Cr) | mg/L	0.0026	< 0.001	<0.0010	<0.00050	<0.0010
Total Cobalt (Co) | mg/L				0.00272	
Conductivity | µmhos/cm	6580	11000	13000	13000	14000
Copper (Cu) | mg/L	0.0086	0.00235	0.00216	0.00236	0.00228
Dissolved Aluminium (Al) | mg/L	<0.006	0.0106	0.015	0.0108	0.0136
Dissolved Antimony (Sb) | mg/L	0.0002	0.00053	<0.0020	0.00061	<0.0010
Dissolved Arsenic (As) | mg/L	<0.0005	0.00519	0.00422	0.00417	0.00298
Dissolved Barium (Ba) | mg/L	0.5235	0.558	0.632	0.724	0.735
Dissolved Beryllium (Be) | mg/L	<0.0005	< 0.0001	<0.00040	<0.000050	<0.00020
Dissolved Boron (B) | mg/L	1.02	0.752	1.03	0.836	0.85
Dissolved Cadmium (Cd) | mg/L	0.00005	0.000215	0.00041	0.000292	0.000391
Dissolved Chromium (Cr) | mg/L	0.0024	< 0.001	<0.0040	<0.00050	<0.0020
Dissolved Copper (Cu) | mg/L	0.0083	0.00166	0.00194	0.00171	0.00184
Dissolved Iron (Fe) | mg/L	0.19	0.028	0.04	0.0429	0.065
Dissolved Lead (Pb) | mg/L	<0.0003	< 0.0002	<0.00080	0.000081	<0.00040
Dissolved Lithium (Li) | mg/L	1.68	1.6	1.98	2.19	2.08
Dissolved Manganese (Mn) | mg/L	0.5237	0.417	0.844	0.67	0.935
Dissolved Mercury (Hg) | mg/L	<0.0001				
Dissolved Molybdenum (Mo) | mg/L	0.0013	0.0018	<0.0040	0.00214	<0.0020
Dissolved Nickel (Ni) | mg/L	0.0862	0.0081	0.0127	0.00872	0.0118
Dissolved organic carbon (D.O.C.) | mg/L	11	12	13	13	13
Dissolved Selenium (Se) | mg/L	0.107	0.00036	<0.00040	0.0003	0.00027
Dissolved Solids | mg/L	4386	8070	8740	8210	10300
Dissolved Silver (Ag) | mg/L	<0.0001	0.000025	<0.000080	0.000036	<0.000040
Dissolved Strontium (Sr) | mg/L	28.75	31.8	36.1	60	46.9
Dissolved thallium (Tl) | mg/L	<0.0008	0.000373	0.00046	0.000465	0.00041
Dissolved Tin (Sn) | mg/L	<0.001	< 0.005	<0.020	<0.0010	<0.010
Dissolved titanium (Ti) | mg/L	0.49	< 0.005	<0.020	<0.0025	<0.010
Dissolved Uranium (U) | mg/L	0.003	0.00333	0.00433	0.00522	0.00528
Dissolved Vanadium | mg/L	<0.0005	< 0.005	<0.020	<0.0010	<0.010
Dissolved Zinc | mg/L	0.019	0.0051	<0.020	0.0064	0.014
Dissolved Hardness | mg/L		3340	4250	5210	5270
Hardness | mg CaCO3/L	3687	3560	3590	4750	5390
Hydrocarbons (L) (Fraction F1 (C6-C10)) | µg/L	<0.3	ND	<25	<25	<25
Hydrocarbons (L) (Fraction F2 - F4)) |					
- Petroleum Hydrocarbons F2 (C10-C16) | µg/L	<100	ND	<100	<100	<100
- Petroleum Hydrocarbons F3 (C16-34) | µg/L	<200	ND	<200	<200	<200
- Petroleum Hydrocarbons F4 (C34-50) | µg/L	<200	ND	<200	<200	<200
Reached Baseline at C50 ug/L			Yes	Yes	Yes
Iron (Fe) | mg/L	0.47	0.246	0.226	0.375	0.282
Kjeldahl nitrogen | mg N/L	107	53	73	70	83
Lead (Pb) | mg/L	<0.0003	0.00027	0.00027	0.00029	0.00024
Lithium (Li) | mg/L	1.83	1.74	1.82	1.98	2.05
Dissolved Magnesium (Mg) | mg/L		89.3	113	121	133
Magnesium (Mg) | mg/L	95.7	93.5	104	114	130
Manganese (Mn) | mg/L	0.6612	0.553	0.858	0.648	0.951
Mercury (Hg) | mg/L	<0.0001	ND	<0.00001	<0.00001	<0.00001
Molybdenum (Mo) | mg/L	0.0013	0.0019	0.002	0.00187	0.0019
Nickel (Ni) | mg/L	0.0898	0.0084	0.0127	0.00923	0.0113
Nitrite-Nitrate | mg N/L	57.4	53.6	69.8	61.8	82.9
Ortho-Phosphate (O-PO4) | mg P/L	0.03	ND	<0.010	<0.010	<0.010
pH |	7.77	7.7	7.67	7.48	7.57
pH terrain |	8.18				
Dissolved Potassium (K) | mg/L		79	91.8	98.9	108
Potassium (K) | mg/L	66.3	83.9	84.7	87.4	111
Reactive Silica (Si) | mg/L	0.6		10	13	37
Selenium (Se) | mg/L	0.102	0.00033	0.00045	0.00032	0.00035
Total Silicon (Si) | mg/L				0.56	
Dissolved Sodium (Na) | mg/L		407	468	478	566
Dissolved Sulphur (S) | mg/L			50		
Silver (Ag) | mg/L	<0.0001	0.000033	0.000038	<0.000050	0.000023
Sodium (Na) | mg/L	437	408	464	476	560
Sulphur (S) | mg/L			59.5		
Strontium (Sr) | mg/L	28.39	33.9	36.7	49.5	50.3
Sulfate (SO4) | mg SO4/L	128				
Dissolved Sulphate (SO4) | mg/L		140	180	170	200
Temperature | °C	9.2				
Thallium (Tl) | mg/L	<0.0008	0.000383	0.00044	0.000406	0.000426
Tin (Sn) | mg/L	<0.001	0.005	<0.0050	<0.0010	<0.0050
Titanium (Ti) | mg/L	0.56	0.005	<0.0050	<0.010	<0.0050
Total organic carbon (T.O.C.) | mg/L	11	15	14	14	15
Total Phosphorus (P) | mg P/L	0.06	0.042	0.045	0.041	0.03
Total Suspended Solids | mg/L	11	14	12	14	16
Turbidity | UTN	4.16	2.1	2.6	2.3	1.6
Uranium (U) | mg/L	0.003	0.00334	0.00456	0.00445	0.0053
Vanadium (V) | mg/L	<0.0005	0.005	<0.0050	<0.0010	<0.0050
Total Zirconium (Zr) | mg/L				<0.00050	
Zinc (Zn) | mg/L	0.021	0.0075	0.0113	0.0095	0.0122

P2 Cell

P2 Cell					
Date	**7-Aug-16**	**9-Aug-16**	**16-Aug-16**	**23-Aug-16**	**30-Aug-16**
field pH		8.05	7.41	7.74	7.73
field cond.		12.45	14.53	19.49	Or
field temp		11.2	17	15.1	11.6
Alkalinity | mg CaCO3/L	108	110	150	130	120
Aluminium (Al) | mg/L	<0.006	0.0871	0.0337	0.043	0.0916
Ammonia nitrogen (NH3-NH4) | mg N/L	171	88	110	150	190
Antimony (Sb) | mg/L	0.0004	0.00071	0.00103	0.00098	0.00099
Arsenic (As) | mg/L	0.0031	0.00611	0.00572	0.00634	0.00603
Barium (Ba) | mg/L	0.6432	0.653	0.778	1.07	0.649
Beryllium (Be) | mg/L	<0.0005	< 0.0001	<0.00010	<0.00010	<0.00010
Total Bismuth (Bi) | mg/L				<0.00010	
Bicarbonate (HCO3) | mg CaCO3/L	108	110	150	130	120
Boron (B) | mg/L	1.22	0.997	1.03	1.04	0.988
Cadmium (Cd) | mg/L	0.0005	0.000575	0.000804	0.0012	0.00115
Dissolved Calcium (Ca) | mg/L		1560	2280	3430	3120
Calcium (Ca) | mg/L	1902	2210	2320	3510	3100
Carbonate (CO3) | mg CaCO3/L	<2	ND	<1.0	<1.0	<1.0
Chloride (Cl) | mg/L	4083				
Dissolved Chloride (Cl) | mg/L		4600	5800	7400	7500
Chromium (Cr) | mg/L	0.0042	< 0.001	<0.0010	<0.0010	<0.0010
Total Cobalt (Co) | mg/L				0.00693	
Conductivity | µmhos/cm	7770	14000	18000	23000	23000
Copper (Cu) | mg/L	0.0102	0.00247	0.00267	0.0032	0.00296
Cyanide W.A.D. | mg/L	0.005				
Dissolved Aluminium (Al) | mg/L	<0.006	0.0117	0.012	0.0077	0.016
Dissolved Antimony (Sb) | mg/L	0.0004	0.00073	<0.0020	0.00109	<0.0020
Dissolved Arsenic (As) | mg/L	<0.0005	0.00449	0.00452	0.00432	0.00371
Dissolved Barium (Ba) | mg/L	0.6365	0.659	0.814	1.03	0.937
Dissolved Beryllium (Be) | mg/L	<0.0005	< 0.0001	<0.00040	<0.00010	<0.00040
Dissolved Boron (B) | mg/L	1.25	0.986	1.02	0.88	1.04
Dissolved Cadmium (Cd) | mg/L	0.00035	0.000589	0.000932	0.00128	0.00115
Dissolved Chromium (Cr) | mg/L	0.0038	< 0.001	<0.0040	<0.0010	<0.0040
Dissolved Copper (Cu) | mg/L	0.0104	0.00232	0.00236	0.00222	0.00316
Dissolved Iron (Fe) | mg/L	0.26	0.045	0.066	0.062	0.048
Dissolved Lead (Pb) | mg/L	<0.0003	< 0.0002	<0.00080	0.000173	<0.00080
Dissolved Lithium (Li) | mg/L	2.23	1.98	2.38	3.03	2.72
Dissolved Manganese (Mn) | mg/L	1.583	1.51	2.59	3.45	3.17
Dissolved Mercury (Hg) | mg/L	<0.0001				
Dissolved Molybdenum (Mo) | mg/L	0.0016	0.0021	<0.0040	0.0035	0.0045
Dissolved Nickel (Ni) | mg/L	0.1212	0.0149	0.0211	0.0185	0.0279
Dissolved organic carbon (D.O.C.) | mg/L	6.8	11	13	13	12
Dissolved Selenium (Se) | mg/L	0.164	0.00062	<0.00040	0.0005	0.00058
Dissolved Solids | mg/L	5180	10400	11500	14200	16200
Dissolved Silver (Ag) | mg/L	<0.0001	0.000039	<0.000080	0.000078	<0.000080
Dissolved Strontium (Sr) | mg/L	40.35	44.8	54.7	95.2	65.5
Dissolved thallium (Tl) | mg/L	<0.0008	0.000544	0.00053	0.000703	0.00054
Dissolved Tin (Sn) | mg/L	<0.001	< 0.005	<0.020	0.005	<0.020
Dissolved titanium (Ti) | mg/L	0.69	< 0.005	<0.020	<0.0050	<0.020
Dissolved Uranium (U) | mg/L	0.004	0.00469	0.00908	0.0132	0.0114
Dissolved Vanadium | mg/L	<0.0005	< 0.005	<0.020	<0.0020	<0.020
Dissolved Zinc | mg/L	0.052	0.023	0.042	0.0202	0.045
Free Cyanide | mg/L	<0.1				0.0069
Dissolved Hardness | mg/L		4410	6300	9280	8710
Hardness | mg CaCO3/L	5259	6010	6370	9570	8630
Hydrocarbons (L) (Fraction F1 (C6-C10)) | µg/L	<0.3	ND	<25	<25	<25
Hydrocarbons (L) (Fraction F2 - F4)) |					
- Petroleum Hydrocarbons F2 (C10-C16) | µg/L	<100	ND	<100	<100	<100
- Petroleum Hydrocarbons F3 (C16-34) | µg/L	<200	ND	<200	<200	<200
- Petroleum Hydrocarbons F4 (C34-50) | µg/L	<200	ND	<200	<200	<200
Reached Baseline at C50 ug/L			Yes	Yes	Yes
Iron (Fe) | mg/L	0.42	0.247	0.238	0.28	0.367
Kjeldahl nitrogen | mg N/L	98.8	93	120	160	150
Lead (Pb) | mg/L	<0.0003	0.00053	0.00037	0.00045	0.00081
Lithium (Li) | mg/L	2.49	2.01	2.16	3.29	2.41
Dissolved Magnesium (Mg) | mg/L		124	146	174	223
Magnesium (Mg) | mg/L	124	117	137	192	217
Manganese (Mn) | mg/L	1.842	1.54	2.44	3.66	3.22
Mercury (Hg) | mg/L	<0.0001	ND	<0.00001	<0.00001	<0.00001
Molybdenum (Mo) | mg/L	0.0015	0.0021	0.0027	0.00357	0.0048
NH3 (nonionized) AMMONIA | mg N/L	2.03				
Nickel (Ni) | mg/L	0.1344	0.0144	0.0219	0.0209	0.0248
Nitrate (NO3) | mg N/L	90.9	80.5	110	173	175
Nitrite-Nitrate | mg N/L	92	81.7	111	174	177
Nitrite (NO2) | mg N/L	1.07	1.17	1.47	1.73	1.94
Ortho-Phosphate (O-PO4) | mg P/L	0.01	ND	<0.010	<0.010	<0.010

P2 Cell (Continued)

P2 Cell					
Date	**7-Aug-16**	**9-Aug-16**	**16-Aug-16**	**23-Aug-16**	**30-Aug-16**
field pH		8.05	7.41	7.74	7.73
field cond.		12.45	14.53	19.49	Or
field temp		11.2	17	15.1	11.6
pH |	7.7	7.65	7.49	7.51	7.43
pH terrain |	8.06				
Dissolved Potassium (K) | mg/L		98.3	125	156	141
Potassium (K) | mg/L	93.4	103	109	160	173
Reactive Silica (Si) | mg/L	2.5		39	54	24
Selenium (Se) | mg/L	0.153	0.00053	0.00072	0.00051	0.00055
Total Silicon (Si) | mg/L				3.1	
Dissolved Sodium (Na) | mg/L		550	604	712	1040
Dissolved Sulphur (S) | mg/L)			84		
Silver (Ag) | mg/L	<0.0001	0.000046	0.00006	<0.00010	0.000035
Sodium (Na) | mg/L	588	512	603	790	1070
Total Sulphur (S) | mg/L			69.6		
Strontium (Sr) | mg/L	40.66	45.4	51.4	98.6	77.4
Sulfate (SO4) | mg SO4/L	135				
Dissolved Sulphate (SO4) | mg/L)		180	200	220	340
Temperature | °C	11.1				
Thallium (Tl) | mg/L	<0.0008	0.000527	0.000526	0.000664	0.000561
Tin (Sn) | mg/L	<0.001	< 0.005	<0.0050	<0.0020	<0.0050
Titanium (Ti) | mg/L	0.72	< 0.005	<0.0050	<0.020	<0.0050
Total Cyanide (CN) mg/L	0.009		0.022	0.034	0.054
Total organic carbon (T.O.C.) | mg/L	12	14	14	14	13
Total Phosphorus (P) | mg P/L	0.03	0.041	0.037	0.027	0.04
Total Suspended Solids | mg/L	5	15	17	15	18
Turbidity | UTN	2.34	2	2.1	2.4	1.3
Uranium (U) | mg/L	0.004	0.00447	0.0102	0.0134	0.0112
Vanadium (V) | mg/L	<0.0005	< 0.005	<0.0050	<0.0020	<0.0050
Total Zirconium (Zr) | mg/L				<0.0010	
Zinc (Zn) | mg/L	0.048	0.0181	0.0437	0.03	0.0299

P3 Cell

P3 cell					
Date	**7-Aug-16**	**9-Aug-16**	**16-Aug-16**	**23-Aug-16**	**30-Aug-16**
field pH		7.69	7.53	7.38	7.85
field cond.		11.93	12.63	13.44	10.13
field temp		12.7	17.4	15.3	11.7
Alkalinity | mg CaCO3/L	92	94	88	78	110
Aluminium (Al) | mg/L	<0.006	0.103	0.726	0.359	0.561
Ammonia nitrogen (NH3-NH4) | mg N/L	72.7	80	83	78	52
Antimony (Sb) | mg/L	0.0001	0.00053	0.0018	0.00072	<0.0010
Arsenic (As) | mg/L	0.0017	0.00864	0.0083	0.00723	0.0183
Barium (Ba) | mg/L	0.5675	0.626	0.62	0.67	0.454
Beryllium (Be) | mg/L	<0.0005	< 0.0001	<0.00010	<0.000050	<0.00020
Total Bismuth (Bi) | mg/L				<0.000050	
Bicarbonate (HCO3) | mg CaCO3/L	92	93	87	78	110
Boron (B) | mg/L	0.87	0.791	0.819	0.736	0.49
Cadmium (Cd) | mg/L	0.0006	0.000671	0.000749	0.000867	0.000261
Dissolved Calcium (Ca) | mg/L		1550	1910	2180	1560
Calcium (Ca) | mg/L	1644	2050	1840	2260	1630
Carbonate (CO3) | mg CaCO3/L	<2	ND	<1.0	<1.0	<1.0
Chloride (Cl) | mg/L	3904				
Dissolved Chloride (Cl) | mg/L		4300	4900	5000	3400
Chromium (Cr) | mg/L	0.0038	< 0.001	0.0021	0.00119	<0.0020
Total Cobalt (Co) | mg/L				0.00598	
Conductivity | µmhos/cm	7531	14000	15000	16000	11000
Copper (Cu) | mg/L	0.0121	0.00304	0.00947	0.00458	0.006
Cyanide W.A.D. | mg/L	<0.005				
Dissolved Aluminium (Al) | mg/L	<0.006	0.0093	0.063	0.009	0.0107
Dissolved Antimony (Sb) | mg/L	0.0001	0.00055	<0.0020	0.00077	<0.0010
Dissolved Arsenic (As) | mg/L	<0.0005	0.00499	0.00434	0.00331	0.0062
Dissolved Barium (Ba) | mg/L	0.548	0.582	0.658	0.636	0.447
Dissolved Beryllium (Be) | mg/L	<0.0005	< 0.0001	<0.00040	<0.000050	<0.00020
Dissolved Boron (B) | mg/L	0.85	0.758	0.8	0.671	0.54
Dissolved Cadmium (Cd) | mg/L	0.00053	0.000634	0.000764	0.000871	0.000256
Dissolved Chromium (Cr) | mg/L	0.0037	< 0.001	<0.0040	<0.00050	<0.0020
Dissolved Copper (Cu) | mg/L	0.0109	0.00241	0.00433	0.00282	0.00319
Dissolved Iron (Fe) | mg/L	0.24	0.0351	<0.020	0.0107	0.026
Dissolved Lead (Pb) | mg/L	<0.0003	< 0.0002	<0.00080	0.000059	<0.00040
Dissolved Lithium (Li) | mg/L	1.66	1.67	1.99	1.84	1.52
Dissolved Manganese (Mn) | mg/L	1.623	1.63	1.79	2.26	1.44
Dissolved Mercury (Hg) | mg/L	<0.0001				
Dissolved Molybdenum (Mo) | mg/L	0.0017	0.0022	<0.0040	0.00242	0.0047
Dissolved Nickel (Ni) | mg/L	0.1251	0.0251	0.0326	0.0342	0.0255
Dissolved organic carbon (D.O.C.) | mg/L	5.5	9.5	12	12	18
Dissolved Selenium (Se) | mg/L	0.148	0.00059	0.00051	0.00047	0.00052
Dissolved Solids | mg/L	5020	10200	10400	10200	8800
Dissolved Silver (Ag) | mg/L	<0.0001	0.000032	<0.000080	0.000043	<0.000040
Dissolved Strontium (Sr) | mg/L	30.03	38.4	42	56	32.5
Dissolved thallium (Tl) | mg/L	<0.0008	0.000359	0.00038	0.000338	0.0001
Dissolved Tin (Sn) | mg/L	<0.001	< 0.005	<0.020	<0.0010	<0.010
Dissolved titanium (Ti) | mg/L	0.57	< 0.005	<0.020	<0.0025	<0.010
Dissolved Uranium (U) | mg/L	0.007	0.00696	0.00751	0.00953	0.024
Dissolved Vanadium | mg/L	<0.0005	< 0.005	<0.020	<0.0010	<0.010
Dissolved Zinc | mg/L	0.023	0.011	<0.020	0.0139	0.013
Free Cyanide | mg/L	<0.1				0.0019
Dissolved Hardness | mg/L		4370	5360	6010	4460
Hardness | mg CaCO3/L	4665	5650	5130	6290	4640
Hydrocarbons (L) (Fraction F1 (C6-C10)) | µg/L	<0.3	ND	<25	<25	<25
Hydrocarbons (L) (Fraction F2 - F4)) |					
- Petroleum Hydrocarbons F2 (C10-C16) | µg/L	<100	ND	<100	<100	<100
- Petroleum Hydrocarbons F3 (C16-34) | µg/L	<200	ND	<200	<200	<200
- Petroleum Hydrocarbons F4 (C34-50) | µg/L	<200	ND	<200	<200	<200
Reached Baseline at C50 ug/L			Yes	Yes	Yes
Iron (Fe) | mg/L	0.44	0.302	0.908	0.922	1.51
Kjeldahl nitrogen | mg N/L	110	84	89	91	52
Lead (Pb) | mg/L	<0.0003	0.0009	0.00137	0.00104	0.00194
Lithium (Li) | mg/L	1.75	1.67	1.79	2.01	1.42
Dissolved Magnesium (Mg) | mg/L		122	143	142	140
Magnesium (Mg) | mg/L	136	130	132	159	138
Manganese (Mn) | mg/L	2.002	1.8	1.86	2.58	1.49
Mercury (Hg) | mg/L	<0.0001	ND	<0.00001	<0.00001	<0.00001
Molybdenum (Mo) | mg/L	0.0016	0.0023	0.003	0.0025	0.0047
NH3 (nonionized) AMMONIA | mg N/L	0.55				
Nickel (Ni) | mg/L	0.1509	0.0258	0.0338	0.0377	0.0283
Nitrate (NO3) | mg N/L	85	78.8	92.3	94.9	53.2
Nitrite-Nitrate | mg N/L	87.1	81.1	96	98.6	55
Nitrite (NO2) | mg N/L	2.01	2.32	3.7	3.66	1.76
Ortho-Phosphate (O-PO4) | mg P/L	0.01	ND	<0.010	<0.010	<0.010

P3 Cell (Continued)

P3 cell					
Date	**7-Aug-16**	**9-Aug-16**	**16-Aug-16**	**23-Aug-16**	**30-Aug-16**
field pH		7.69	7.53	7.38	7.85
field cond.		11.93	12.63	13.44	10.13
field temp		12.7	17.4	15.3	11.7
pH |	7.46	7.59	7.44	7.44	7.52
pH terrain |	7.75	7.69			
Dissolved Potassium (K) | mg/L		95.8	111	108	83.8
Potassium (K) | mg/L	88.7	106	96.1	111	81.6
Reactive Silica (Si) | mg/L	2.5		23	38	9.8
Selenium (Se) | mg/L	0.152	0.0006	0.00081	0.00052	0.035
Total Silicon (Si) | mg/L				2.3	
Dissolved Sodium (Na) | mg/L		558	634	592	464
Dissolved Sulphur (S) | mg/L			90		
Silver (Ag) | mg/L	<0.0001	0.000048	0.000061	0.000063	0.000069
Sodium (Na) | mg/L	664	585	615	658	470
Total Sulphur (S) | mg/L			77.4		
Strontium (Sr) | mg/L	32.62	41.1	39.9	63.5	31.9
Sulfate (SO4) | mg SO4/L	206				
Dissolved Sulphate (SO4) | mg/L		220	260	290	430
Temperature | °C	12				
Thallium (Tl) | mg/L	<0.0008	0.000373	0.000362	0.000355	0.00012
Tin (Sn) | mg/L	<0.001	< 0.005	<0.0050	<0.0010	<0.010
Titanium (Ti) | mg/L	0.78	< 0.005	0.04	<0.010	0.02
Total Cyanide (CN) mg/L	0.005		0.032	0.032	0.012
Total organic carbon (T.O.C.) | mg/L	5.5	11	12	11	20
Total Phosphorus (P) | mg P/L	0.03	0.026	0.04	0.023	0.06
Total Suspended Solids | mg/L	16	20	25	13	43
Turbidity | UTN	1.86	2.2	2.8	1.3	12
Uranium (U) | mg/L	0.007	0.00705	0.00803	0.0103	0.0228
Vanadium (V) | mg/L	<0.0005	< 0.005	<0.0050	0.0012	<0.010
Total Zirconium (Zr) | mg/L				<0.00050	
Zinc (Zn) | mg/L	0.028	0.0133	0.0324	0.0201	0.014

DP3-A Base

Sample	DP3-A-BASE	DP3-A Base	DP3-A Base	DP3-A Base	DP3-A Base
Sampling location	Meliadine	Meliadine	Meliadine	Meliadine	Meliadine
Sampling date	7-Aug-16	9-Aug-16	16-Aug-16	23-Aug-16	30-Aug-16
Sampler name	Philip Roy	PR	JM	JM & JT	PR
Field Data					
field pH		7.8	7.46	7.73	7.35
field cond. mS/cm		OR	OR	19.09	Or
field temp : °C		14.4	20.8	17.3	14.7
Alkalinity | mg CaCO3/L	110	120	140	99	130
Aluminium (Al) | mg/L	0.088	0.147	0.0241	0.105	0.0818
Ammonia nitrogen (NH3-NH4) | mg N/L	277	170	220	0.26	320
Antimony (Sb) | mg/L	0.002	0.00245	0.00181	0.00144	0.00147
Arsenic (As) | mg/L	<0.0005	0.0112	0.0151	0.0104	0.00907
Barium (Ba) | mg/L	0.5525	0.666	0.674	0.686	0.734
Beryllium (Be) | mg/L	<0.0005	< 0.0001	<0.00010	<0.00010	<0.00010
Bicarbonate (HCO3) | mg CaCO3/L	110	120	130	99	130
Total Bismuth (Bi) mg/L				<0.00010	
Boron (B) | mg/L	6.51	5.76	3.4	1.94	5.01
Cadmium (Cd) | mg/L	0.0007	0.000954	0.000691	0.000672	0.000724
Dissolved Calcium (Ca) | mg/L		4690	4780	3570	5120
Calcium (Ca) | mg/L	5533	6810	4200	3470	5550
Carbonate (CO3) | mg CaCO3/L	<2	ND	<1.0	<1.0	<1.0
Chloride (Cl) | mg/L	12797				
Dissolved Chloride (Cl) | mg/L		9200	11000	7100	14000
Chromium (Cr) | mg/L	0.0046	< 0.001	<0.0010	<0.0010	<0.0010
Total Cobalt (Co) mg/L				0.0246	
Conductivity | µmhos/cm	12130	28000	33000	22000	38000
Copper (Cu) | mg/L	0.0277	0.0103	0.0116	0.0090	0.00522
Cyanide W.A.D. | mg/L	0.039				
Dissolved Aluminium (Al) | mg/L	<0.006	0.0088	<0.030	0.0085	0.014
Dissolved Antimony (Sb) | mg/L	0.0021	0.00224	<0.0050	0.00158	<0.0020
Dissolved Arsenic (As) | mg/L	<0.0005	0.00806	0.0096	0.00685	0.00529
Dissolved Barium (Ba) | mg/L	0.5834	0.635	0.737	0.708	0.707
Dissolved Beryllium (Be) | mg/L	<0.0005	< 0.0001	<0.0010	<0.00010	<0.00040
Dissolved Boron (B) | mg/L	6.3	5.52	4.03	1.86	4.25
Dissolved Cadmium (Cd) | mg/L	0.00076	0.000891	0.00077	0.000719	0.000548
Dissolved Chromium (Cr) | mg/L	<0.0006	< 0.001	<0.010	<0.0010	<0.0040
Dissolved Copper (Cu) | mg/L	0.0302	0.00902	0.0123	0.00813	0.00437
Dissolved Iron (Fe) | mg/L	1.14	0.548	0.705	0.412	0.055
Dissolved Lead (Pb) | mg/L	<0.0003	0.00023	<0.0020	0.000311	<0.00080
Dissolved Lithium (Li) | mg/L	9.78	10.2	8.55	5.68	8.57
Dissolved Manganese (Mn) | mg/L	3.553	3.25	3.68	3.40	3.92
Dissolved Mercury (Hg) | mg/L	<0.0001				
Dissolved Molybdenum (Mo) | mg/L	0.0097	0.0102	0.013	0.00653	0.0042
Dissolved Nickel (Ni) | mg/L	0.3589	0.108	0.116	0.0838	0.0575
Dissolved organic carbon (D.O.C.) | mg/L	26.9	47	59	42	22
Dissolved Selenium (Se) | mg/L	0.289	0.00141	<0.0010	0.00049	0.00074
Dissolved Solids | mg/L	8086	24400	21800	14500	28000
Dissolved Silver (Ag) | mg/L	<0.0001	0.000157	<0.00020	0.000102	0.000084
Dissolved Strontium (Sr) | mg/L	159	179	140	121	168
Dissolved thallium (Tl) | mg/L	0.0011	0.00192	0.00106	0.000777	0.00111
Dissolved Tin (Sn) | mg/L	<0.001	< 0.005	<0.050	<0.0020	<0.020
Dissolved titanium (Ti) | mg/L	1.35	< 0.005	<0.050	<0.0050	<0.020
Dissolved Uranium (U) | mg/L	0.022	0.019	0.0286	0.0272	0.0312
Dissolved Vanadium | mg/L	<0.0005	< 0.005	<0.050	<0.0020	<0.020
Dissolved Zinc | mg/L	0.034	0.0219	<0.050	0.0208	0.023
Dissolved Hardness | mg/L		12900	13300	9850	14100
Hardness | mg CaCO3/L	15417	18200	11600	9630	15300
Hydrocarbons (L) (Fraction F1 (C6-C10)) | µg/L	<0.3	ND	<25		
Hydrocarbons (L) (Fraction F2 - F4)) |					
- Petroleum Hydrocarbons F2 (C10-C16) | µg/L	<100	ND	<100		
- Petroleum Hydrocarbons F3 (C16-34) | µg/L	<200	ND	<200		
- Petroleum Hydrocarbons F4 (C34-50) | µg/L	<200	ND	<200		
Iron (Fe) | mg/L	3.3	1.97	1.89	1.57	0.41
Kjeldahl nitrogen | mg N/L	235	180	280	140	290
Lead (Pb) | mg/L	0.0041	0.00092	0.00066	0.00089	0.00094
Lithium (Li) | mg/L	10.69	10.5	7.08	5.64	11.3
Dissolved Magnesium (Mg) | mg/L		288	327	229	326
Magnesium (Mg) | mg/L	389	300	276	232	345
Manganese (Mn) | mg/L	3.212	3.51	3.33	3.39	4.73
Mercury (Hg) | mg/L	<0.0001	ND	<0.00001	<0.00001	<0.00001
Molybdenum (Mo) | mg/L	0.0088	0.0103	0.0118	0.00662	0.0049
NH3 (nonionized) AMMONIA | mg N/L	0.89				
Nickel (Ni) | mg/L	0.392	0.112	0.104	0.0846	0.0672
Nitrate (NO3) | mg N/L	314	185	244	152	283
Nitrite-Nitrate | mg N/L	321	189	254	155	285
Nitrite (NO2) | mg N/L	6.81	4.59	10.5	3.19	1.57
Ortho-Phosphate (O-PO4) | mg P/L	0.06	ND	0.012	<0.010	0.011

DP3-A Base (Continued)

Sample	DP3-A-BASE	DP3-A Base	DP3-A Base	DP3-A Base	DP3-A Base
Sampling location	Meliadine	Meliadine	Meliadine	Meliadine	Meliadine
Sampling date	7-Aug-16	9-Aug-16	16-Aug-16	23-Aug-16	30-Aug-16
Sampler name	Philip Roy	PR	JM	JM & JT	PR
Field Data					
field pH		7.8	7.46	7.73	7.35
field cond. mS/cm		OR	OR	19.09	Or
field temp : °C		14.4	20.8	17.3	14.7
pH |	7.24	7.42	7.42	7.26	7.29
pH field |	7.53				
Dissolved Potassium (K) | mg/L		290	275	175	277
Potassium (K) | mg/L	254	314	231	168	317
Reactive Silica (Si) | mg/L	15		52	17	5.8
Selenium (Se) | mg/L	0.283	0.00165	0.00125	0.00063	0.00104
Total Silicon (Si) mg/L				9.72	
Dissolved Sodium (Na) | mg/L		1150	1120	701	1260
Dissolved Sulphur (S) | mg/L			313		
Silver (Ag) | mg/L	<0.0001	0.00018	0.000136	<0.00010	0.000095
Sodium (Na) | mg/L	1384	1210	1080	704	1390
Total Sulphur (S) | mg/L			280		
Strontium (Sr) | mg/L	159	197	125	113	213
Sulfate (SO4) | mg SO4/L	607				
Dissolved Sulphate (SO4) | mg/L		700	890	690	420
Temperature | °C	16				
Thallium (Tl) | mg/L	0.0011	0.00204	0.000977	0.000718	0.00118
Tin (Sn) | mg/L	<0.001	< 0.005	<0.0050	<0.0020	<0.0050
Titanium (Ti) | mg/L	1.55	< 0.005	<0.0050	<0.020	<0.0050
Total Cyanide (CN) mg/L	0.141		0.12	0.099	0.15
Total organic carbon (T.O.C.) | mg/L	35.1	48	60	43	24
Total Phosphorus (P) | mg P/L	0.06	0.067	0.08	0.057	0.08
Total Suspended Solids | mg/L	63	30	31	21	33
Turbidity | UTN	7.17	8.8	6.7	7.6	2.2
Uranium (U) | mg/L	0.021	0.0195	0.0296	0.0262	0.0349
Vanadium (V) | mg/L	<0.0005	< 0.005	<0.0050	<0.0020	<0.0050
Zinc (Zn) | mg/L	0.039	0.0243	0.028	0.026	0.0228

DP1-B Base

Field Data						
field pH			**7.79**	7.2	7.69	7.27
field cond. mS/cm			**9.1**	10.6	10.76	12.77
field temp : °C			**12.7**	11.3	16	9.9
Project	56915		B6H0446			
Sample	DP1-B		DP1B-Base	DP1B-Base	DP1B-Base	DP1B-Base
Sampling location	Meliadine		DP1B-Base	DP1B-Base	DP1B-Base	DP1B-Base
Water distibution system	OL-494982		494982	494982	494982	494982
Sampling date	7-Aug-16		9-Aug-16	8/16/2016	8/23/2016	8/30/2016
Sampler name	Philip Roy		PR	JM	JM & JT	PR
Alkalinity | mg CaCO3/L	111		110	100	110	97
Aluminium (Al) | mg/L	<0.006		0.046	0.0467	0.088	0.0346
Ammonia nitrogen (NH3-NH4) | mg N/L	51.3		56	65	71	80
Antimony (Sb) | mg/L	0.0001		0.00062	0.00094	0.00071	<0.0010
Arsenic (As) | mg/L	0.0059		0.00518	0.00441	0.00398	0.00301
Barium (Ba) | mg/L	0.561		0.605	0.598	0.697	0.852
Beryllium (Be) | mg/L	<0.0005	<	0.0001	<0.00010	<0.000050	<0.00020
Bicarbonate (HCO3) | mg CaCO3/L	111		110	100	110	96
Boron (B) | mg/L	1.03		0.893	1.05	0.907	0.97
Cadmium (Cd) | mg/L	0.00016		0.000212	0.000295	0.000257	0.0004
Dissolved Calcium (Ca) | mg/L			1220	1540	1740	1830
Calcium (Ca) | mg/L	1291		1180	1210	1690	1950
Carbonate (CO3) | mg CaCO3/L	<2		ND	<1.0	<1.0	<1.0
Chloride (Cl) | mg/L	2864					
Dissolved Chloride (Cl) | mg/L			3200	3800	3800	4300
Chromium (Cr) | mg/L	0.0036	<	0.001	<0.0010	<0.00050	<0.0020
Total Cobalt (Co) mg/L					0.00525	
Conductivity | µmhos/cm	8690		10000	12000	12000	14000
Copper (Cu) | mg/L	0.0091		0.00287	0.00315	0.00270	0.0025
Cyanide W.A.D. | mg/L	<0.005					
Dissolved Aluminium (Al) | mg/L	<0.006		0.0102	0.028	0.0061	0.0119
Dissolved Antimony (Sb) | mg/L	0.0001		0.00055	<0.0020	0.00080	<0.0010
Dissolved Arsenic (As) | mg/L	0.0014		0.00373	0.00304	0.00244	0.00199
Dissolved Barium (Ba) | mg/L	0.5896		0.582	0.636	0.727	0.835
Dissolved Beryllium (Be) | mg/L	<0.0005	<	0.0001	<0.00040	<0.000050	<0.00020
Dissolved Boron (B) | mg/L	1.01		0.933	1.01	0.848	0.99
Dissolved Cadmium (Cd) | mg/L	0.00003		0.000197	0.000303	0.000236	0.000375
Dissolved Chromium (Cr) | mg/L	0.0034	<	0.001	<0.0040	<0.00050	<0.0020
Dissolved Copper (Cu) | mg/L	0.0079		0.00226	0.00241	0.00196	0.00228
Dissolved Iron (Fe) | mg/L	0.3		0.0984	0.059	0.177	0.356
Dissolved Lead (Pb) | mg/L	<0.0003	<	0.0002	<0.00080	0.000087	<0.00040
Dissolved Lithium (Li) | mg/L	1.77		1.78	1.99	2.04	2.39
Dissolved Manganese (Mn) | mg/L	1.02		0.54	0.656	0.928	1.6
Dissolved Mercury (Hg) | mg/L	<0.0001					
Dissolved Molybdenum (Mo) | mg/L	0.0011		0.0017	<0.0040	0.00143	<0.0020
Dissolved Nickel (Ni) | mg/L	0.084		0.0087	0.0109	0.00955	0.0132
Dissolved organic carbon (D.O.C.) | mg/L	6.3		12	13	14	14
Dissolved Selenium (Se) | mg/L	0.101		0.0004	<0.00040	0.00027	0.00027
Dissolved Solids | mg/L	4166		7890	8390	7750	9930
Dissolved Silver (Ag) | mg/L	<0.0001		0.00002	<0.000080	0.000055	<0.000040
Dissolved Strontium (Sr) | mg/L	27.88		32	38	53.7	49.1
Dissolved thallium (Tl) | mg/L	<0.0008		0.000438	0.00059	0.000520	0.00053
Dissolved Tin (Sn) | mg/L	<0.001	<	0.005	<0.020	<0.0010	<0.010
Dissolved titanium (Ti) | mg/L	0.44	<	0.005	<0.020	<0.0025	<0.010
Dissolved Uranium (U) | mg/L	0.003		0.00297	0.00342	0.00397	0.00331
Dissolved Vanadium | mg/L	<0.0005	<	0.005	<0.020	<0.0010	<0.010
Dissolved Zinc | mg/L	0.018	<	0.005	<0.020	0.00270	0.013
Free Cyanide | mg/L	<0.1					
Dissolved Hardness | mg/L			3400	4260	4790	5100
Hardness | mg CaCO3/L	3604		3330	3450	4670	5390
Hydrocarbons (L) (Fraction F1 (C6-C10)) | µg/L	<0.3		ND	<25		
Hydrocarbons (L) (Fraction F2 - F4)) |						
- Petroleum Hydrocarbons F2 (C10-C16) | µg/L	<100		ND	<100		
- Petroleum Hydrocarbons F3 (C16-34) | µg/L	<200		ND	<200		
- Petroleum Hydrocarbons F4 (C34-50) | µg/L	<200		ND	<200		
Iron (Fe) | mg/L	1.44		0.578	0.376	1.32	1.7
Kjeldahl nitrogen | mg N/L	77.6		93	73	59	79
Lead (Pb) | mg/L	<0.0003		0.00028	0.00037	0.00035	<0.00040
Lithium (Li) | mg/L	1.84		1.75	1.91	2.02	2.39
Dissolved Magnesium (Mg) | mg/L			88.7	105	109	127
Magnesium (Mg) | mg/L	92.4		91.3	103	112	126
Manganese (Mn) | mg/L	1.198		0.635	0.694	0.963	1.61
Mercury (Hg) | mg/L	<0.0001		ND	<0.00001	<0.00001	<0.00001
Molybdenum (Mo) | mg/L	0.001		0.0017	0.0022	0.00151	<0.0020
Nickel (Ni) | mg/L	0.0958		0.0084	0.0109	0.0101	0.0129
Nitrite-Nitrate | mg N/L	50.2		48.7	65.4	63.2	75.9
Ortho-Phosphate (O-PO4) | mg P/L	0.01		ND	<0.010	<0.010	<0.010
pH |	7.43		7.64	7.5	7.51	7.28
pH field |	7.44					
Dissolved Potassium (K) | mg/L			76.3	89.3	90.9	99.3
Potassium (K) | mg/L	69.6		81.4	78.9	85.8	101
Reactive Silica (Si) | mg/L	2.4			9.2	15	36
Selenium (Se) | mg/L	0.101		0.00041	0.00051	0.00031	0.00023
Total Silicon (Si) mg/L					0.99	
Dissolved Sodium (Na) | mg/L			382	435	432	524
Dissolved Sulphur (S) | mg/L				43		
Silver (Ag) | mg/L	<0.0001		0.000036	0.000044	<0.000050	<0.000040
Sodium (Na) | mg/L	426		384	465	437	525
Total Sulphur (S) | mg/L				53.3		
Strontium (Sr) | mg/L	26.39		33.3	36.4	53.1	49.9
Sulfate (SO4) | mg SO4/L	122					
Dissolved Sulphate (SO4) | mg/L			140	170	170	190
Temperature | °C	12.2					
Thallium (Tl) | mg/L	<0.0008		0.000451	0.000611	0.000482	0.00059
Tin (Sn) | mg/L	<0.001	<	0.005	<0.0050	<0.0010	<0.010
Titanium (Ti) | mg/L	0.54	<	0.005	<0.0050	<0.010	<0.010
Total organic carbon (T.O.C.) | mg/L	6.3		15	14	15	15
Total Phosphorus (P) | mg P/L	0.04		0.04	0.05	0.047	0.04
Total Suspended Solids | mg/L	9		13	15	21	14
Turbidity | UTN	11.5		2.7	2.7	3.3	2.5
Uranium (U) | mg/L	0.003		0.00292	0.00366	0.00377	0.00325
Vanadium (V) | mg/L	<0.0005	<	0.005	<0.0050	<0.0010	<0.010
Zinc (Zn) | mg/L	0.021		0.0061	0.008	0.0065	0.012