

13.5 Geotechnical Drilling within 31 Metres of Water

Over the summer and fall of 2010, up to 60 geotechnical drill holes are to be drilled to an average depth of approximately 10 metres⁵ with many of the holes being within 31 metres of water. The drilling is expected near various water crossings for the proposed all weather road from Rankin Inlet to site, and at possible rock and granular quarries. The holes drilled within 31 metres of water are not being drilled to look for mineralized deposits but to determine the structural integrity of the subsurface along the proposed road. While no in-stream drilling is planned, some of the drilling will be immediately adjacent to water.

Mitigation Measures

- No additives such as CaCl_2 will be used; the water will simply be heated to assist drilling in permafrost;
- Fuel for drilling will be delivered by helicopter on an as-needed-basis and will be held within secondary containment or double walled tanks. Only the fuel needed for immediate drilling will be within 31 metres of water. Fuel storage otherwise will be located a distance of at least 31 metres from the ordinary high water mark. All fuel containers will be inspected on a daily basis;
- Fluids, cuttings and sludge will be directed to a sump or depression at least a distance of 31 m from the ordinary high water mark and the sump will be inspected daily;
- AEM will adhere to Fisheries and Oceans' Operational Statement for Mineral Exploration Activities;
- A screen will be installed on the drill's water intake to avoid the entrainment/impingement of fish when water is drawn from small ponds near the drill site.

Monitoring

- A visual inspection will be maintained during drilling for evidence of TSS in the water body. Drilling will stop if TSS is noticed in receiving waters and the flow will be contained.

13.6 Water Removal from Bermed Fuel Areas

Bermed fuel areas are designed to hold in excess of 110 percent of the fuel in barrels, single walled tanks and/or bladders therein. This space, however, provides an opportunity for the accumulation of snow over the winter and rain during the summer months. This water has to be removed from the bermed areas to ensure the complete capacity is available in the event of a leak in any fuel container(s).

There remains the possibility that some hydrocarbons will be associated with the water due to inadvertent spills within the bermed area. The water will first be checked for sheen before pumping it to the environment. If the water has a surface sheen and it

⁵ Geotechnical holes drilled on either side of the Meliadine and Char Rivers will be up to 30 metres deep.

cannot be removed by spill pads, a sample will be collected. The water will not be released to the environment unless it meets NWB Mel-5 limits for hydrocarbons.

Mitigation Measures

- Snow will be removed from the bermed area if it is safe to do so;
- If sheen is evidenced on the surface of the water, spill pads will be placed on the water to absorb the hydrocarbons; and
- An oil-water separator will be installed at the bermed area holding the fuel bladders. All water to be discharged from the bermed area will pass through the oil-water separator.

Monitoring

- Water samples will be collected from within the berm and analyzed for hydrocarbons. If the results meet Mel-5 hydrocarbon limits, the water will be discharged to the land; and
- If the water samples do not meet the Mel-5 hydrocarbon limits, the water will be treated before release.

APPENDIX A

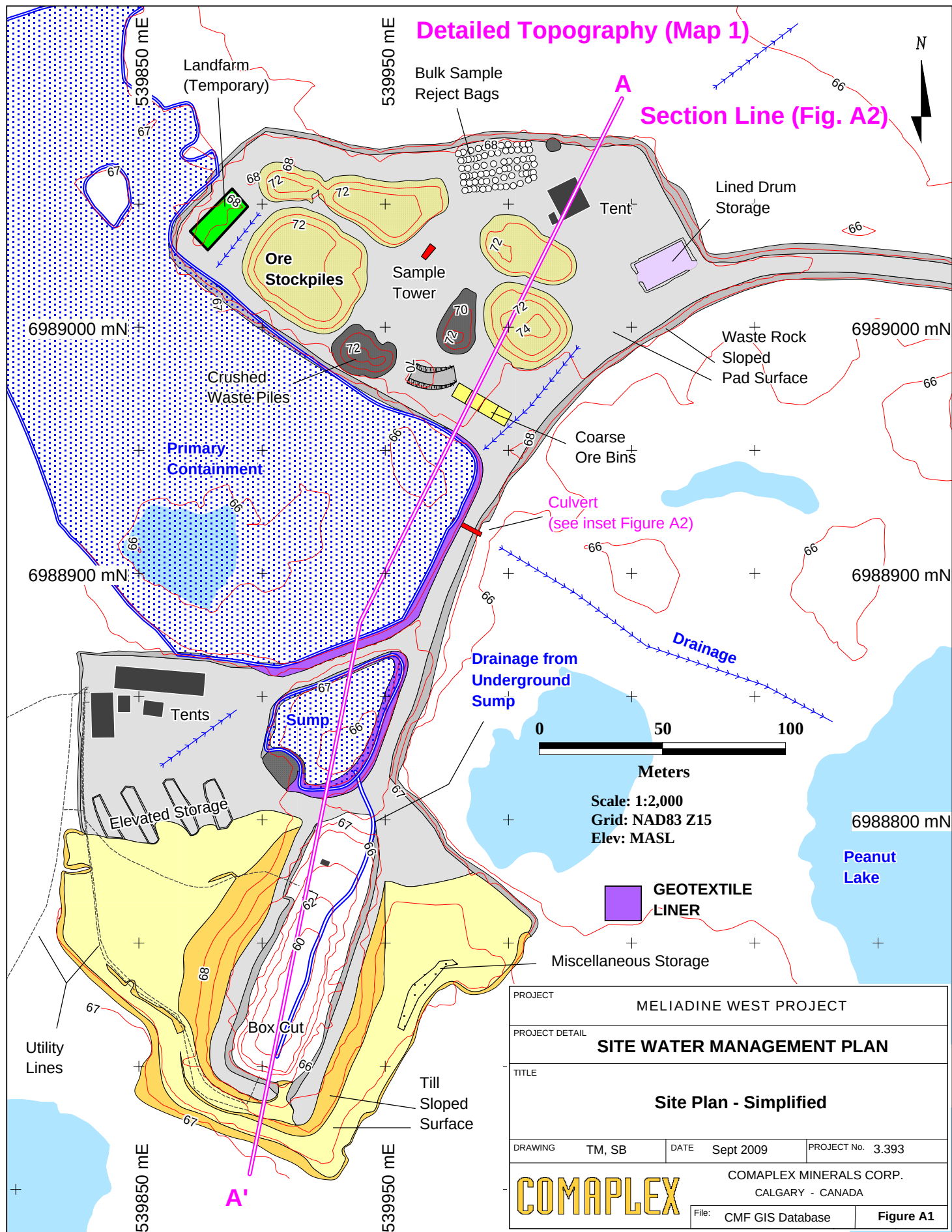
Installation instructions for the Geo-Synthetic Liner

(From September 2009 Addendum to Water Management Plan)

Liner Installation Details

The geotextile liner installed along the southeast margins of the primary containment area and sump is shown on Figure A1 and Figure A2. Detailed installation plans are provided below:

- Personnel conversant in liner installation operated the equipment during the installation.
- The north facing slopes of the pad and roads were cut and sloped using the backhoe bucket in preparation for acceptance of the liner.
- The toe of the slope (tundra) was cleared of large rock.
- The top surface of the road and pad in this area was kept at 0.3m below grade prior to this period in anticipation of the liner installation.
- A backhoe smoothed and shaped the receiving slopes to ~ 45deg.
- A cut was made through the road and above the tundra at the position shown on the sketches to receive the culvert.
- A 3ft steel culvert was prepared with a four inch wide steel "I" beam frame welded onto the one end.
- The culvert and frame were lowered into position and <1" crushed rock was packed around the culvert to keep it in position.
- The tundra and road remained frozen at the time of installation (early spring 2008).
- A single length of geotextile filter material was run out in each respective area, between the positions shown on the sketches.
- The geotextile material was run out ~1m from the toe and from the crest.
- A break in the geotextile was made to allow the culvert to extend through the geotextile surface.
- Extra geotextile material was allowed in the vicinity of the culvert to allow lapping of the material into the perimeter of the culvert.
- An extra layer of geotextile was laid on top of the first layer, at, and ~4m in either direction from the culvert, to cater for any breaks in the initial layer.
- The geotextiles were intermittently anchored in position at the toe and crest of the slope with rock debris, during installation.
- Rip rap of approximately 0.3m was placed on the toe, sloped surface and crest to cover and trap the material.
- Great care was taken not to puncture the material during this process.
- <1" crushed rock was then placed, filling voids and building up a smooth surface.
- The road surface was then covered with <0.3m rock and a final layer of <1" rock to the current elevation.
- The culvert was capped off with pre-cut 4" timbers inserted into the I beam frame.
- The culvert was then further capped using several layers of <1" crushed rock and geotextile which was again lapped out onto the sloped portion of the road.



Section Legend

Liner

Primary Containment (P)

Sump (S)

Ore Pile

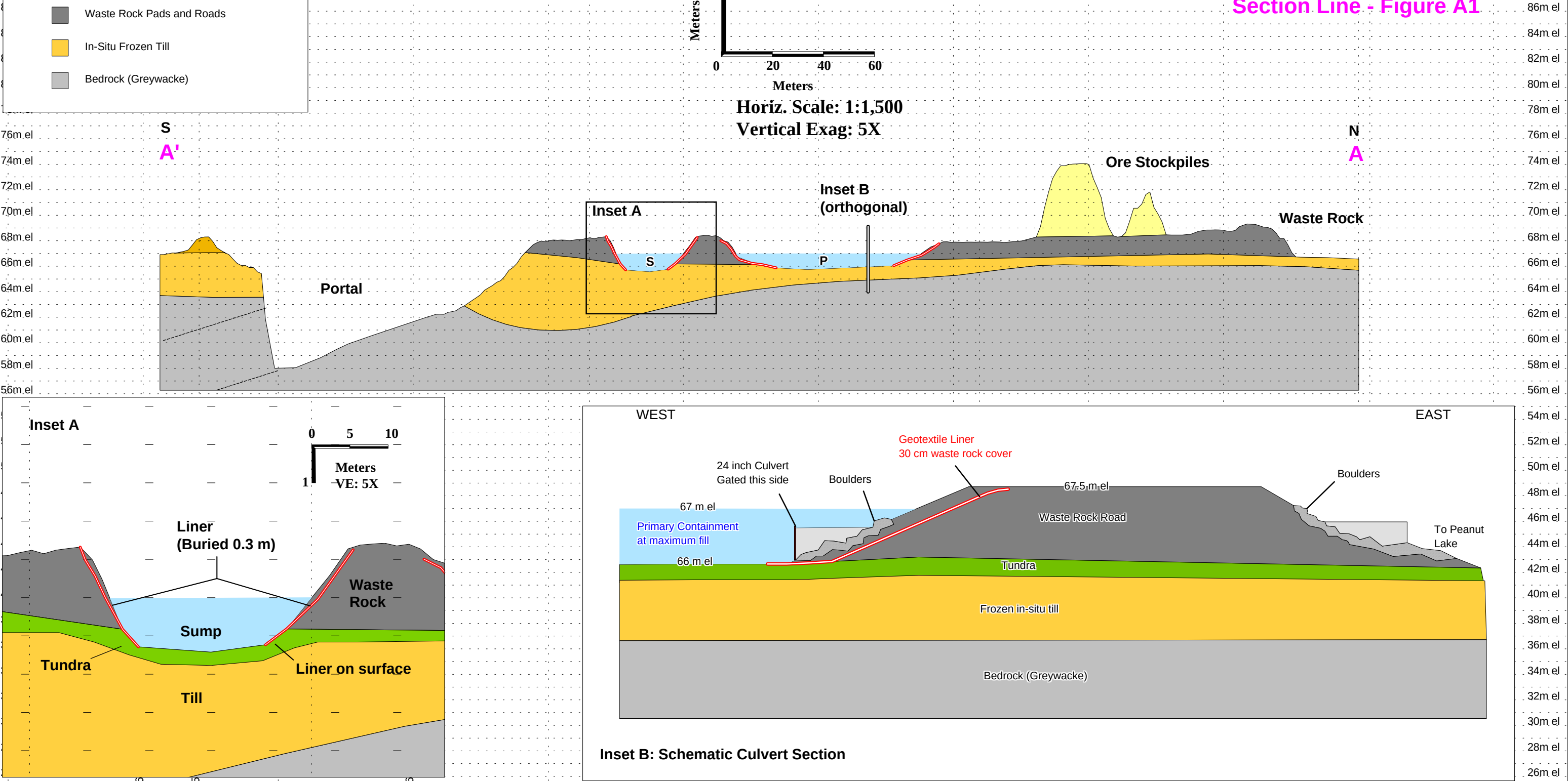
Stockpiled Till

Waste Rock Pads and Roads

In-Situ Frozen Till

Bedrock (Greywacke)

PROJECT			
MELIADINE WEST PROJECT			
PROJECT DETAIL			
SITE WATER MANAGEMENT PLAN			
TITLE			
CROSS SECTION A - A'			
STOCKPILE AND PORTAL AREA			
DRAWING	TM, SB	DATE	Sept 2009
		PROJECT No.	3.393
		COMAPLEX MINERALS CORP. CALGARY - CANADA	
		File:	CMF GIS Database
		Figure A2	



APPENDIX B
2009 WATER QUALITY DATA

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	CCME										0.1	0.019	
	MMER												
	Sample Location	Sample_Date	Sample_Time	Label	Lab. Report	UTM E	UTM N	pH Field	Temp Field	Alkalinity, Total (as CaCO3) (mg/L)	Aluminum (Al)-Total (mg/L)	Ammonia-N (mg/L)	Antimony (Sb)-Total (mg/L)
	A13	28-Jun-09	11:20	A13	L785375	539828	6988676	7.28	13.8	37.3	<0.040	<0.050	<0.0016
	A15	28-Jun-09	11:13	A15	L785376	539732	6988798	6.95	13.4	27.5	<0.040	<0.050	<0.0016
	A38	28-Jun-09	12:23	A38	L785377	540500	6988254	7.53	13.1	58.5	<0.010	1.01	<0.00040
	A54	28-Jun-09	11:45	A54	L785378	540135	6988794	7.52	12.8	60.4	<0.040	4.56	<0.0016
	A8-7	28-Jun-09	09:15	A8-7	L785379	540748	6986690	6.64	6.0	21.9	<0.010	<0.050	<0.00040
	A9	28-Jun-09	12:15	A10	L785380	540194	6988142	7.59	13.3	44.3	<0.040	<0.050	<0.0016
	CONTROL	28-Jun-09	09:35	CONTROL	L785381	535001	6986333	6.22	5.5	28.6	<0.010	<0.050	<0.00040
	CONTROL 2	28-Jun-09	10:00	CONTROL 2	L785382	535001	6986333	6.47	10.5	20.1	<0.010	<0.050	<0.00040
	MEL1	28-Jun-09	13:40	MEL1	L785383	541934	6989173	6.16	6.8	12.4	<0.010	<0.050	<0.00040
	MEL2	28-Jun-09	10:00	MEL2	L785384	540681	6986702	6.38	5.8	30.0	<0.010	<0.050	<0.00040
	MEL3	28-Jun-09	14:35	MEL3	L785385	542083	6989004	6.83	16.4	77.5	0.015	0.179	0.00073
	MEL4	28-Jun-09	14:15	MEL4	L785386	542092	6989012	6.21	6.4	12.1	<0.010	<0.050	<0.00040
	ML-River	28-Jun-09	09:30	ML-River	L785387	544778	6971712	6.17	12.9	20.2	<0.010	<0.050	<0.00040
	TAP Water	28-Jun-09	14:50	TAP Water	L785388			6.45	10.3	16.7			

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		N	O	P	Q	R	S	T	U	V	W	X	Y	Z
	CCME	0.005						0.017					0.001	
	MMER	0.5												
	Sample Location	Arsenic (As)-Total (mg/L)	Barium (Ba)-Total (mg/L)	Beryllium (Be)-Total (mg/L)	Bicarbonate (HCO3) (mg/L)	Biochemical Oxygen Demand (mg/L)	Boron (B)-Total (mg/L)	Cadmium (Cd)-Total (mg/L)	Calcium (Ca)-Dissolved (mg/L)	Calcium (Ca)-Total (mg/L)	Carbonate (CO3) (mg/L)	Chloride (Cl) (mg/L)	Chromium (Cr)-Total (mg/L)	Cobalt (Co)-Total (mg/L)
	A13	0.0031	0.114	<0.0040	45.6		<0.050	<0.00020	123	112	<5.0	256	<0.0050	<0.0020
	A15	0.0033	0.230	<0.0040	33.5		<0.050	<0.00020	247.7	232	<5.0	551	<0.0050	<0.0020
	A38	0.00261	0.0634	<0.0010	71.3		<0.050	<0.000050	73.9	78.7	<5.0	156	<0.0050	<0.0020
	A54	0.0033	0.0683	<0.0040	73.7		<0.050	<0.00020	95.2	94.4	<5.0	193	<0.0050	<0.0020
	A8-7	0.00107	0.0124	<0.0010	26.7		<0.050	<0.000050	11.9	10.8	<5.0	14.5	<0.0050	<0.0020
	A9	0.0034	0.0878	<0.0040	54.1		<0.050	<0.00020	84.5	82.4	<5.0	170	<0.0050	<0.0020
	CONTROL	0.00048	0.0106	<0.0010	34.9		<0.050	<0.000050	9.60	9.00	<5.0	8.27	<0.0050	<0.0020
	CONTROL 2	<0.00040	0.0090	<0.0010	24.5		<0.050	<0.000050	7.17	7.14	<5.0	8.38	<0.0050	<0.0020
	MEL1	<0.00040	0.0059	<0.0010	15.2	<2.0	<0.050	<0.000050	5.36	4.72	<5.0	5.92	<0.0050	<0.0020
	MEL2	0.00092	0.0185	<0.0010	36.6	<2.0	<0.050	<0.000050	17.3	17.0	<5.0	23.4	<0.0050	<0.0020
	MEL3	0.00567	0.0299	<0.0010	94.6	7.5	<0.050	0.000075	41.0	37.7	<5.0	57.7	<0.0050	<0.0020
	MEL4	<0.00040	0.0056	<0.0010	14.7	<2.0	<0.050	<0.000050	5.43	4.61	<5.0	6.04	<0.0050	<0.0020
	ML-River	<0.00040	0.0091	<0.0010	24.7		<0.050	<0.000050	7.10	6.40	<5.0	8.20	<0.0050	<0.0020
	TAP Water				20.4				6.97		<5.0	8.16		

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		AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM
	CCME		0.002-0.004				0.3	0.001-0.007						0
	MMER		0.3					0.2						
	Sample Location	Conductivity (EC) (uS/cm)	Copper (Cu)-Total (mg/L)	Hardness (as CaCO3) (mg/L)	Hydroxide (OH) (mg/L)	Ion Balance (%)	Iron (Fe)-Total (mg/L)	Lead (Pb)-Total (mg/L)	Lithium (Li)-Total (mg/L)	Magnesium (Mg)-Dissolved (mg/L)	Magnesium (Mg)-Total (mg/L)	Manganese (Mn)-Total (mg/L)	Mercury (Hg)-Total (mg/L)	MF - Fecal Coliforms (CFU/100mL)
	A13	966	<0.0040	359	<5.0	100	0.390	<0.00040	0.054	12.7	12.1	0.0132	<0.00010	
	A15	1920	<0.0040	712	<5.0	98.9	0.554	<0.00040	0.168	22.7	19.0	0.0309	<0.00010	
	A38	734	0.0015	227	<5.0	90.0	0.061	0.00039	0.017	10.2	11.3	0.0021	<0.00010	
	A54	915	<0.0040	290	<5.0	96.8	0.081	<0.00040	<0.024	12.7	13.0	0.0051	<0.00010	
	A8-7	93.7	<0.0010	36.2	<5.0	Low EC	0.075	<0.00010	<0.010	1.58	1.41	0.0151	<0.00010	
	A9	690	<0.0040	250	<5.0	95.4	0.182	<0.00040	0.032	9.39	9.48	0.0150	<0.00010	
	CONTROL	84.2	<0.0010	28.2	<5.0	Low EC	0.101	<0.00010	<0.010	1.02	0.97	0.0161	<0.00010	
	CONTROL 2	72.9	<0.0010	22.4	<5.0	Low EC	0.034	<0.00010	<0.010	1.09	1.05	<0.0020	<0.00010	
	MEL1	52.3	0.0052	16.9	<5.0	Low EC	0.025	<0.00010	<0.010	0.86	0.74	0.0051	<0.00010	<1
	MEL2	141	<0.0010	52.3	<5.0	91.3	0.056	<0.00010	<0.010	2.22	2.21	0.0182	<0.00010	
	MEL3	416	0.0027	117	<5.0	107	0.116	0.00359	<0.010	3.64	3.94	0.0612	<0.00010	4
	MEL4	52.0	<0.0010	16.6	<5.0	Low EC	0.015	<0.00010	<0.010	0.75	0.76	0.0044	<0.00010	<1
	ML-River	73.5	<0.0010	22.0	<5.0	Low EC	0.025	<0.00010	<0.010	1.04	0.94	0.0022	<0.00010	
	TAP Water	70.0		22.2	<5.0	Low EC				1.16				<1

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		AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
	CCME	0.073	0.025-0.015	2.9		0.06			6.5 - 9.0	0.03				
	MMER		0.5						6.0 - 9.5					
	Sample Location	Molybdenum (Mo)-Total (mg/L)	Nickel (Ni)-Total (mg/L)	Nitrate (as N) (mg/L)	Nitrate and Nitrite as N (mg/L)	Nitrite (as N) (mg/L)	Oil and Grease (mg/L)	Orthophosphate (PO4-P) (mg/L)	pH (pH)	Phosphorus, Total Diss_ (mg/L)	Potassium (K)-Dissolved (mg/L)	Potassium (K)-Total (mg/L)	Selenium (Se)-Total (mg/L)	Silver (Ag)-Total (mg/L)
	A13	<0.0050	0.0040	<0.050	<0.071	<0.050			7.80	<0.020	5.50	5.88	<0.0080	<0.00040
	A15	<0.0050	0.0063	<0.050	<0.071	<0.050			7.34	<0.020	13.0	11.5	<0.0080	<0.00040
	A38	<0.0050	0.0030	2.46	2.46	<0.050			7.85	<0.020	5.93	6.63	<0.0020	<0.00010
	A54	<0.0050	0.0037	6.73	6.80	0.069	<1.0		7.84	<0.020	8.67	9.23	<0.0080	<0.00040
	A8-7	<0.0050	<0.0020	<0.050	<0.071	<0.050			7.19	<0.020	0.71	0.64	<0.00040	<0.00010
	A9	<0.0050	0.0035	<0.050	<0.071	<0.050			7.64	<0.020	3.73	4.10	<0.0080	<0.00040
	CONTROL	<0.0050	<0.0020	<0.050	<0.071	<0.050			7.18	<0.020	1.19	0.89	<0.00040	<0.00010
	CONTROL 2	<0.0050	<0.0020	<0.050	<0.071	<0.050			7.14	<0.020	1.01	0.91	<0.00040	<0.00010
	MEL1	<0.0050	<0.0020	<0.050	<0.071	<0.050	<1.0	<0.010	6.97	<0.020	0.69	0.52	<0.00040	<0.00010
	MEL2	<0.0050	<0.0020	<0.050	<0.071	<0.050	<1.0	<0.010	7.30	<0.020	1.00	0.96	<0.00040	<0.00010
	MEL3	<0.0050	0.0069	<0.050	<0.071	<0.050	1.1	0.470	7.75	0.561	5.62	5.85	<0.0020	<0.00010
	MEL4	<0.0050	<0.0020	<0.050	<0.071	<0.050	1.1	<0.010	7.35	<0.020	0.64	0.58	<0.00040	<0.00010
	ML-River	<0.0050	<0.0020	<0.050	<0.071	<0.050			7.17	<0.020	1.00	0.86	<0.00040	<0.00010
	TAP Water			<0.050	<0.071	<0.050			7.42		0.92			

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		BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM
	CCME											29		
	MMER											15		
	Sample Location	Sodium (Na)-Dissolved (mg/L)	Sodium (Na)-Total (mg/L)	Strontium (Sr)-Total (mg/L)	Sulfate (SO4) (mg/L)	TDS (Calculated) (mg/L)	Thallium (Tl)-Total (mg/L)	Tin (Sn)-Total (mg/L)	Titanium (Ti)-Total (mg/L)	Total Carbon (mg/L)	Total Inorganic Carbon (mg/L)	Total Suspended Solids (mg/L)	Turbidity (NTU)	Uranium (U)-Total (mg/L)
	A13	22.1	21.8	0.965	14.3	456	<0.00040	<0.050	<0.0024			<3.0	1.12	<0.00040
	A15	41.5	48.6	2.40	21.6	914	<0.00040	<0.050	<0.0024			<3.0	2.76	<0.00040
	A38	24.1	28.0	0.720	33.7	350	<0.00010	<0.050	<0.0010			3.0	0.46	0.00031
	A54	33.3	36.2	0.794	43.7	453	<0.00040	<0.050	<0.0024			<3.0	1.38	0.00068
	A8-7	2.1	2.0	0.0701	2.14	46.1	<0.00010	<0.050	<0.0010			<3.0	0.49	<0.00010
	A9	12.1	12.8	0.653	9.55	316	<0.00040	<0.050	<0.0024			3.0	0.73	<0.00040
	CONTROL	4.5	4.3	0.0310	2.09	43.8	<0.00010	<0.050	<0.0010			<3.0	0.58	<0.00010
	CONTROL 2	4.3	4.0	0.0329	3.04	37.1	<0.00010	<0.050	<0.0010			<3.0	0.34	<0.00010
	MEL1	2.8	2.2	0.0267	2.54	25.6	<0.00010	<0.050	<0.0010	6.7	3.0	<3.0	0.26	<0.00010
	MEL2	3.0	2.7	0.110	2.73	67.7	<0.00010	<0.050	<0.0010	10.4	6.9	<3.0	0.36	<0.00010
	MEL3	34.5	35.1	0.248	27.4	216	0.00013	<0.050	0.0020	40.0	20.0	4.0	3.18	<0.00010
	MEL4	3.7	2.9	0.0227	2.42	26.2	<0.00010	<0.050	<0.0010	5.9	3.0	<3.0	0.34	<0.00010
	ML-River	4.2	3.6	0.0329	3.06	36.7	<0.00010	<0.050	<0.0010			<3.0	0.35	<0.00010
	TAP Water	4.4			2.87	34.5						<3.0	0.34	

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		BN	BO
	CCME		0.03
	MMER		0.5
	Sample Location	Vanadium (V)-Total (mg/L)	Zinc (Zn)-Total (mg/L)
	A13	<0.0020	<0.016
	A15	<0.0020	<0.016
	A38	<0.0010	0.0040
	A54	<0.0020	0.030
	A8-7	<0.0010	0.0261
	A9	<0.0020	0.031
	CONTROL	<0.0010	<0.0040
	CONTROL 2	<0.0010	<0.0040
	MEL1	<0.0010	<0.0040
	MEL2	<0.0010	0.0261
	MEL3	<0.0010	0.0220
	MEL4	<0.0010	<0.0040
	ML-River	<0.0010	<0.0040
	TAP Water		

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	CCME								0.1	0.019		0.005	
	MMER											0.5	
	Sample Location	Sample_Date	Sample_Time	Label	Lab. Report	UTM E	UTM N	Alkalinity, Total (as CaCO3) (mg/L)	Aluminum (Al)-Total (mg/L)	Ammonia-N (mg/L)	Antimony (Sb)-Total (mg/L)	Arsenic (As)-Total (mg/L)	Barium (Ba)-Total (mg/L)
	A13	06-Aug-09	00:00	A13	L801984	539828	6988676	23.0	<0.20	<0.050	<0.0080	<0.0080	0.410
	A15	06-Aug-09	10:10	A15	L801984	539732	6988798	39.7	<0.20	<0.050	<0.0080	<0.0080	0.340
	A38	06-Aug-09	10:20	A38	L801984	540500	6988254	40.5	<0.040	<0.050	<0.0016	0.0040	0.0941
	A54	06-Aug-09	10:30	A54	L801984	540135	6988794	40.1	<0.040	0.387	<0.0016	0.0034	0.0947
	A9	06-Aug-09	10:40	A9	L801984	540194	6988142	57.2	<0.040	<0.050	<0.0016	0.0050	0.113
	MEL4	06-Aug-09	00:00	MEL4	L801984	542092	6989012						
	P1	06-Aug-09	00:00	P1	L801984	539901	6988966	107	<0.040	11.6	<0.0016	0.0139	0.135
	P2	06-Aug-09	00:00	Sump	L801984	539952	6988927	100	<0.20	5.59	<0.0080	0.0132	0.137
	A8	06-Aug-09	10:50	Pump Lake	L801984	535000	6987700	34.7	<0.010	<0.050	<0.00040	0.00216	0.0195

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		N	O	P	Q	R	S	T	U	V	W	X	Y
	CCME					0.017					0.001		
	MMER												
	Sample Location	Beryllium (Be)-Total (mg/L)	Bicarbonate (HCO3) (mg/L)	Biochemical Oxygen Demand (mg/L)	Boron (B)-Total (mg/L)	Cadmium (Cd)-Total (mg/L)	Calcium (Ca)-Dissolved (mg/L)	Calcium (Ca)-Total (mg/L)	Carbonate (CO3) (mg/L)	Chloride (Cl) (mg/L)	Chromium (Cr)-Total (mg/L)	Cobalt (Co)-Total (mg/L)	Conductivity (EC) (uS/cm)
	A13	<0.020	28.0		<0.080	<0.0010	398	339	<5.0	839	<0.016	<0.0040	2800
	A15	<0.020	48.4		<0.080	<0.0010	350	337	<5.0	764	<0.016	<0.0040	2630
	A38	<0.0040	49.4		<0.050	<0.00020	111	120	<5.0	270	<0.0050	<0.0020	1100
	A54	<0.0040	49.0		<0.050	<0.00020	125	128	<5.0	284	<0.0050	<0.0020	1210
	A9	<0.0040	69.8		<0.050	<0.00020	114	92.2	<5.0	214	<0.0050	<0.0020	871
	MEL4			<2.0									
	P1	<0.0040	131		<0.050	<0.00020	197	144	<5.0	361	<0.0050	<0.0020	1650
	P2	<0.020	122		0.225	<0.0010	303	266	<5.0	997	<0.016	0.0044	4520
	A8	<0.0010	42.3		<0.050	<0.000050	20.8	21.1	<5.0	24.2	<0.0050	<0.0020	161

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	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK
CCME	0.002-0.004				0.3	0.001-0.007						0
MMER	0.3					0.2						
Sample Location	Copper (Cu)-Total (mg/L)	Hardness (as CaCO3) (mg/L)	Hydroxide (OH) (mg/L)	Ion Balance (%)	Iron (Fe)-Total (mg/L)	Lead (Pb)-Total (mg/L)	Lithium (Li)-Total (mg/L)	Magnesium (Mg)-Dissolved (mg/L)	Magnesium (Mg)-Total (mg/L)	Manganese (Mn)-Total (mg/L)	Mercury (Hg)-Total (mg/L)	MF - Fecal Coliforms (CFU/100mL)
A13	<0.020	1130	<5.0	101	0.932	<0.0020	0.26	32.4	27.3	0.0404	<0.00010	
A15	<0.020	1040	<5.0	101	0.329	<0.0020	0.14	40.6	38.9	0.0075	<0.00010	
A38	<0.0040	355	<5.0	97.7	0.095	<0.00040	0.034	18.9	20.5	0.0036	<0.00010	
A54	<0.0040	396	<5.0	97.5	0.020	<0.00040	0.035	20.3	20.8	<0.0020	<0.00010	
A9	<0.0040	341	<5.0	104	0.134	<0.00040	0.049	13.8	11.1	0.0057	<0.00010	
MEL4												1
P1	0.0081	589	<5.0	109	0.093	0.00064	0.025	23.5	17.3	0.0471	<0.00010	
P2	<0.020	1300	<5.0	107	0.069	<0.0020	<0.12	133	115	0.134	<0.00010	
A8	<0.0010	63.3	<5.0	102	0.051	<0.00010	<0.010	2.76	2.83	0.0080	<0.00010	

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		AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW
	CCME	0.073	0.025-0.015	2.9		0.06		6.5 - 9.0					
	MMER		0.5					6.0 - 9.5					
	Sample Location	Molybdenum (Mo)-Total (mg/L)	Nickel (Ni)-Total (mg/L)	Nitrate (as N) (mg/L)	Nitrate and Nitrite as N (mg/L)	Nitrite (as N) (mg/L)	Oil and Grease (mg/L)	pH (pH)	Potassium (K)-Dissolved (mg/L)	Potassium (K)-Total (mg/L)	Selenium (Se)-Total (mg/L)	Silver (Ag)-Total (mg/L)	Sodium (Na)-Dissolved (mg/L)
	A13	<0.0050	0.0084	<0.050	<0.071	<0.050		7.56	13.9	11.9	0.0266	<0.0020	39.5
	A15	<0.0050	0.0079	<0.050	<0.071	<0.050		7.77	9.64	9.27	0.0281	<0.0020	39.9
	A38	<0.0050	0.0031	0.396	0.396	<0.050		7.88	9.44	10.3	0.0033	<0.00040	43.5
	A54	<0.0050	0.0032	5.74	5.86	0.122		7.87	10.4	10.8	0.0045	<0.00040	48.0
	A9	<0.0050	0.0037	<0.050	<0.071	<0.050		7.98	4.49	3.58	0.0047	<0.00040	16.9
	MEL4						<1.0						
	P1	<0.0050	0.0072	9.58	9.72	0.131		7.98	16.1	12.0	0.0048	0.00062	58.4
	P2	<0.0050	0.0474	21.0	21.2	0.148		8.05	37.7	33.6	0.0303	<0.0020	457
	A8	<0.0050	<0.0020	<0.050	<0.071	<0.050		7.90	1.15	1.09	0.00047	0.00012	3.8

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		AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH
	CCME								29			0.03
	MMER								15			0.5
	Sample Location	Sodium (Na)- Total (mg/L)	Sulfate (SO4) (mg/L)	TDS (Calculated) (mg/L)	Thallium (Tl)- Total (mg/L)	Tin (Sn)- Total (mg/L)	Titanium (Ti)- Total (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Total Suspended Solids (mg/L)	Uranium (U)- Total (mg/L)	Vanadium (V)-Total (mg/L)	Zinc (Zn)- Total (mg/L)
	A13	33.7	8.83	1350	<0.0020	<0.050	<0.012	0.78		<0.0020	0.011	<0.080
	A15	37.0	13.7	1240	<0.0020	<0.050	<0.012	0.75		<0.0020	0.011	<0.080
	A38	49.3	47.8	527	<0.00040	<0.050	<0.0024	1.23		<0.00040	0.0022	<0.016
	A54	50.1	63.2	601	<0.00040	<0.050	<0.0024	1.65		<0.00040	0.0023	<0.016
	A9	13.3	10.4	408	<0.00040	<0.050	<0.0024	1.01		<0.00040	0.0024	<0.016
	MEL4								<3.0			
	P1	43.7	62.5	826	<0.00040	<0.050	<0.0024	13.4		0.00118	0.0037	0.018
	P2	406	600	2680	<0.0020	<0.050	<0.012	7.00		0.0117	0.010	<0.080
	A8	3.8	2.76	76.3	0.00016	<0.050	<0.0010	0.37		<0.00010	<0.0010	<0.0040

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	CCME									0.1	0.019		
	MMER												
	SampleID	Sample Date	SampleTime	Label	Lab. Report	UTM E	UTM N	Alkalinity, Total (as CaCO3) (mg/L)	Aluminum (Al)- Dissolved (mg/L)	Aluminum (Al)-Total (mg/L)	Ammonia-N (mg/L)	Antimony (Sb)- Dissolved (mg/L)	Antimony (Sb)-Total (mg/L)
	A13	03-Sep-09	14:45	A13	L817421	539828	6988676	46.9	<0.040	<0.040	<0.050	<0.0016	<0.0016
	A15	03-Sep-09	14:30	A15	L817421	539732	6988798	45.9	<0.040	0.044	<0.050	<0.0016	<0.0016
	A38	03-Sep-09	11:00	A38	L817421	540500	6988254	59.8	<0.040	0.059	<0.050	<0.0016	<0.0016
	A54	03-Sep-09	13:30	A54	L817421	540135	6988794	46.9	<0.040	<0.040	0.544	<0.0016	<0.0016
	A8-7	03-Sep-09	10:30	A8-7	L817421	540748	6986690	36.3	<0.010	<0.010	<0.050	<0.00040	<0.00040
	A9	03-Sep-09	12:45	A9	L817421	540194	6988142	58.8	<0.040	<0.040	<0.050	<0.0016	<0.0016
	CONTROL			CONTROL	L817421	535001	6986333	25.7	<0.010	<0.010	<0.050	<0.00040	<0.00040
	MEL1	03-Sep-09	09:30	MEL1	L817421	541934	6989173	14.6	<0.010	<0.010	<0.050	<0.00040	<0.00040
	MEL1 DUPL	03-Sep-09	09:30	MEL1 DUPL	L817421	541934	6989173	15.4	<0.010	<0.010	<0.050	<0.00040	<0.00040
	MEL2	03-Sep-09	10:00	MEL2	L817421	540681	6986702	37.7	<0.010	0.011	<0.050	<0.00040	<0.00040
	MEL3	04-Sep-09	07:00	MEL3	L817421	542083	6989004						
	MEL4	04-Sep-10	07:10	MEL4	L817421	542092	6989012						
	ML-River	04-Sep-09	09:30	ML-River	L817421	544778	6971712	22.0	<0.010	0.019	<0.050	<0.00040	<0.00040
	P1	03-Sep-09	14:00	P1	L817421	539901	6988966	119	<0.040	<0.040	7.10	<0.0016	<0.0016

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			N	O	P	Q	R	S	T	U	V	W	X
	CCME			0.005									
	MMER			0.5									
	SampleID	Sample Date	Arsenic (As)- Dissolved (mg/L)	Arsenic (As)- Total (mg/L)	Barium (Ba)- Dissolved (mg/L)	Barium (Ba)- Total (mg/L)	Beryllium (Be)- Dissolved (mg/L)	Beryllium (Be)-Total (mg/L)	Bicarbonate (HCO3) (mg/L)	Biochemical Oxygen Demand (mg/L)	Boron (B)- Dissolved (mg/L)	Boron (B)- Total (mg/L)	Cadmium (Cd)- Dissolved (mg/L)
	A13	03-Sep-09	0.0032	0.0034	0.157	0.156	<0.0040	<0.0040	57.3		<0.20	<0.050	<0.0040
	A15	03-Sep-09	0.0043	0.0066	0.212	0.204	<0.0040	<0.0040	56.0		<0.20	<0.050	<0.0040
	A38	03-Sep-09	0.0037	0.0064	0.0864	0.0794	<0.0040	<0.0040	73.0		<0.20	<0.050	<0.0040
	A54	03-Sep-09	0.0033	0.0037	0.091	0.0879	<0.0040	<0.0040	57.3		<0.20	<0.050	<0.0040
	A8-7	03-Sep-09	0.00191	0.00237	0.0158	0.0155	<0.0010	<0.0010	44.3		<0.050	<0.050	<0.0010
	A9	03-Sep-09	0.0047	0.0074	0.141	0.142	<0.0040	<0.0040	71.7		<0.20	<0.050	<0.0040
	CONTROL		0.00057	0.00060	0.0069	0.0068	<0.0010	<0.0010	31.4		<0.050	<0.050	<0.0010
	MEL1	03-Sep-09	0.00043	0.00045	0.0058	0.0058	<0.0010	<0.0010	17.9		<0.050	<0.050	<0.0010
	MEL1 DUPL	03-Sep-09	0.00043	0.00047	0.0058	0.0059	<0.0010	<0.0010	18.8		<0.050	<0.050	<0.0010
	MEL2	03-Sep-09	0.00222	0.00262	0.0198	0.0193	<0.0010	<0.0010	46.0		<0.050	<0.050	<0.0010
	MEL3	04-Sep-09								6.5			
	MEL4	04-Sep-10								<2.0			
	ML-River	04-Sep-09	<0.00040	<0.00040	0.0094	0.0093	<0.0010	<0.0010	26.9		<0.050	<0.050	<0.0010
	P1	03-Sep-09	0.0104	0.0114	0.105	0.103	<0.0040	<0.0040	145		<0.20	<0.050	<0.0040

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			Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI
	CCME		0.017						0.001				
	MMER												
	SampleID	Sample Date	Cadmium (Cd)-Total (mg/L)	Calcium (Ca)-Dissolved (mg/L)	Calcium (Ca)-Total (mg/L)	Carbonate (CO3) (mg/L)	Chloride (Cl) (mg/L)	Chromium (Cr)-Dissolved (mg/L)	Chromium (Cr)-Total (mg/L)	Cobalt (Co)-Dissolved (mg/L)	Cobalt (Co)-Total (mg/L)	Conductivity (EC) (uS/cm)	Copper (Cu)-Dissolved (mg/L)
	A13	03-Sep-09	<0.00020	166	166	<5.0	361	<0.020	<0.0050	<0.0080	<0.0020	1330	<0.0040
	A15	03-Sep-09	<0.00020	212	216	<5.0	479	<0.020	<0.0050	<0.0080	<0.0020	1660	<0.0040
	A38	03-Sep-09	<0.00020	113	123	<5.0	256	<0.020	0.0086	<0.0080	<0.0020	1040	<0.0040
	A54	03-Sep-09	<0.00020	137	132	<5.0	312	<0.020	<0.0050	<0.0080	<0.0020	1310	<0.0040
	A8-7	03-Sep-09	<0.000050	21.1	21.4	<5.0	26.2	<0.0050	<0.0050	<0.0020	<0.0020	169	<0.0010
	A9	03-Sep-09	<0.00020	146	169	<5.0	294	<0.020	0.0095	<0.0080	<0.0020	1130	<0.0040
	CONTROL		<0.000050	8.93	8.86	<5.0	7.62	<0.0050	<0.0050	<0.0020	<0.0020	78.0	<0.0010
	MEL1	03-Sep-09	<0.000050	6.31	6.21	<5.0	7.67	<0.0050	<0.0050	<0.0020	<0.0020	66.3	<0.0010
	MEL1 DUPL	03-Sep-09	<0.000050	6.21	6.31	<5.0	7.63	<0.0050	<0.0050	<0.0020	<0.0020	65.8	<0.0010
	MEL2	03-Sep-09	<0.000050	25.5	25.8	<5.0	36.2	<0.0050	<0.0050	<0.0020	<0.0020	209	<0.0010
	MEL3	04-Sep-09											
	MEL4	04-Sep-10											
	ML-River	04-Sep-09	<0.000050	8.61	7.97	<5.0	10.3	<0.0050	<0.0050	<0.0020	<0.0020	86.1	0.0011
	P1	03-Sep-09	<0.00020	160	159	<5.0	310	<0.020	<0.0050	<0.0080	<0.0020	1380	<0.0040

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			AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT
	CCME		0.002-0.004					0.3		0.001-0.007			
	MMER		0.3							0.2			
	SampleID	Sample Date	Copper (Cu)- Total (mg/L)	Hardness (as CaCO3) (mg/L)	Hydroxide (OH) (mg/L)	Ion Balance (%)	Iron (Fe)- Dissolved (mg/L)	Iron (Fe)- Total (mg/L)	Lead (Pb)- Dissolved (mg/L)	Lead (Pb)- Total (mg/L)	Lithium (Li)- Dissolved (mg/L)	Lithium (Li)- Total (mg/L)	Magnesium (Mg)- Dissolved (mg/L)
	A13	03-Sep-09	<0.0040	496	<5.0	95.6	0.016	0.602	<0.020	<0.00040	0.058	0.060	19.8
	A15	03-Sep-09	<0.0040	644	<5.0	94.9	0.025	0.702	<0.020	<0.00040	0.060	0.061	27.8
	A38	03-Sep-09	<0.0040	362	<5.0	97.9	0.020	0.455	<0.020	<0.00040	0.027	<0.024	19.5
	A54	03-Sep-09	<0.0040	437	<5.0	99.0	<0.010	0.029	<0.020	<0.00040	0.029	0.030	23.1
	A8-7	03-Sep-09	<0.0010	64.7	<5.0	97.2	<0.010	0.074	<0.0050	<0.00010	0.0042	<0.010	2.91
	A9	03-Sep-09	<0.0040	433	<5.0	99.3	0.018	0.358	<0.020	<0.00040	0.064	0.056	16.7
	CONTROL		<0.0010	26.7	<5.0	Low EC	<0.010	0.036	<0.0050	<0.00010	<0.0030	<0.010	1.07
	MEL1	03-Sep-09	0.0013	20.3	<5.0	Low EC	<0.010	0.026	<0.0050	<0.00010	<0.0030	<0.010	1.11
	MEL1 DUPL	03-Sep-09	0.0011	20.0	<5.0	Low EC	<0.010	0.028	<0.0050	<0.00010	<0.0030	<0.010	1.10
	MEL2	03-Sep-09	<0.0010	78.5	<5.0	97.6	<0.010	0.067	<0.0050	<0.00010	0.0059	<0.010	3.59
	MEL3	04-Sep-09											
	MEL4	04-Sep-10											
	ML-River	04-Sep-09	0.0014	27.3	<5.0	Low EC	<0.010	0.036	<0.0050	<0.00010	<0.0030	<0.010	1.41
	P1	03-Sep-09	<0.0040	479	<5.0	98.4	<0.010	0.051	<0.020	<0.00040	<0.012	<0.024	19.2