

APPENDIX III

SURFACE WATER QUALITY DATA

Historical Water Quality Sampling Stations

Station Number	Description
1	Tributary to Upper Wilkie Creek
2	Wilkie Creek - upstream road crossing
3	Upper catchment of Edward Creek (tributary to Wilkie Inlet D)
4	Minnie Creek at road crossing (tributary to Wilkie Inlet D)
5	Wilkie Inlet D - above confluence with Wikie Creek
6	Wilkie Creek - upstream of confluence with Wilkie Inlet D (tributary draining the mine portal)
7	Mouth of Wilkie Creek at Trout Lake – downstream of confluence with Wilkie Inlet D
8	Lardeau River at Gerrard
9	Mouth of Lardeau Creek at Trout Lake
10	Lardeau Creek
11	Beaton Creek
12	Mine Portal
13	Settling Ponds

Recent Water Quality Stations

Sample	Date	Description
Samples collected by Rescan as part of Newmont's reclamation activities.		
TL-1	1997	Portal discharge
TL-2	1997	Portal discharge 5 m from entrance
TL-3	1997	Portal discharge near ore pile
TL-4	1997	Portal discharge adjacent to metal drums of ore
TL-5	1997	Portal discharge at outlet of beaver dam
BG	1997	Background water sample from stream approximately 1 km down access road
BG-2	1997	Background water sample from stream approximately 2 km down access road
WS 1	1998	Overburden rock pad seep
WS 2	1998	Portal discharge
Trout Lake #1	2002	N/A
	2002	Inlet to Sedimentation Pond
	2002	Discharge from Sedimentation Pond
RMO1	2004	Portal discharge pipe at the manhole sampling point
RMO2	2004	Water discharge through the french drain
RMO3	2004	200m down slope from the french drain towards Wilkie Creek
Samples collected by MEMI as part of 2005 baseline studies.		
A	May, 2005	In creek at NW end of proposed tailings facility (UTM 0459255, 5611391) In Wilkie Inlet D, down gradient from proposed mine site location, above old road crossing, and above confluence with Minnie Creek (UTM 0459515, 5610631)
B	May, 2005	In Wilkie Inlet D, below confluence with Shrub Creek/bog at SE end of proposed tailings facility and seepage pond, above confluence with Allan Creek (UTM 0460052, 5610503)
C	May, 2005	Portal settling pond discharge (UTM 0458421, 5610642, ~Historic station 13)
D	May, 2005	In Minnie Creek upstream of site access road above confluence with proposed mine site drainage (UTM 0459540, 5610269, ~Historic station 4)
E	May, 2005	Mouth of Wilkie Creek at bridge crossing, downstream of confluence with Wilkie Inlet D (UTM 0461486, 5609753, ~Historic station 7)
F	May, 2005	

Analytical Water Quality Results from Station 1, MAX Molybdenum Project

Parameter	Units	Station 1 27-Oct-78	Station 1 30-May-79	Station 1 04-Jul-79	Station 1 29-Aug-79	Station 1 27-Aug-80	Station 1 17-Sep-81
Physical Tests							
Specific Conductance	µmhos/cm	-	-	-	-	-	-
Hardness (CaCO ₃)	mg/L	86	85	75	93	94	97
Nonfiltrable Residue (105°C)	mg/L	-	-	-	-	-	2
Filtrable Residue (105°C)	mg/L	-	-	-	-	-	111
Suspended Solids	mg/L	<1	2	1	1	<1	-
Dissolved Solids	mg/L	318	88	102	69	108	-
Turbidity	NTU	-	-	-	-	0.25	0.15
pH	pH units	7.8	7.7	7.9	8.2	8.2	8.2
True Colour	units	-	-	-	-	<5	<5
Dissolved Anions							
Total Alkalinity	mg/L	-	-	-	-	84	83
Calcium	mg/L	26.7	28.8	24.6	31.4	32	33
Magnesium	mg/L	4.8	3.1	3.3	3.58	3.4	3.5
Fluoride	mg/L	<0.1	<0.1	<0.1	<0.1	0.06	<0.05
Sulphate	mg/L	10	8	9	14	13	16
Dissolved Metals							
Arsenic	mg/L	<0.001	-	-	0.001	<0.005	<0.005
Cadmium	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.005	<0.005
Copper	mg/L	0.004	0.0007	0.0005	0.0006	<0.005	<0.005
Iron	mg/L	0.003	0.018	0.003	0.002	0.024	<0.01
Lead	mg/L	0.001	<0.001	<0.001	0.007	<0.01	0.02
Mercury	mg/L	<0.00005	-	-	<0.00005	<0.00025	<0.00025
Molybdenum	mg/L	0.005	0.003	0.005	0.004	<0.05	<0.03
Silver	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.01	<0.01
Zinc	mg/L	0.004	0.001	0.001	0.003	0.025	<0.005
Total Metals							
Arsenic	mg/L			-			
Cadmium	mg/L			-			
Copper	mg/L			-			
Iron	mg/L			-			
Lead	mg/L			-			
Mercury	mg/L			-			
Molybdenum	mg/L			-			
Silver	mg/L			-			
Zinc	mg/L			-			

Notes: Data analyzed by Beak Analytical Services, Richmond.

- = data not analyzed.

a = At time of collection, the fault zone was quite wet and contained a lot of broken gravelling material.

Red values exceed CCME criteria; Blue values exceed both CCME and BC criteria

Analytical Water Quality Results from Station 2, MAX Molybdenum Project

Parameter	Units	Station 2 27-Oct-78	Station 2 30-May-79	Station 2 04-Jul-79	Station 2 29-Aug-79	Station 2 22-Jan-80	Station 2 07-May-80	Station 2 27-Aug-80	Station 2 06-Oct-80	Station 2 03-Nov-80	Station 2 15-Jan-81	Station 2 10-Jun-81	Station 2 17-Sep-81	Station 2 29-Jan-82	Station 2 07-May-82
Physical Tests															
Specific Conductance	µmhos/cm	-	-	-	-	-	-	-	70	83	-	-	-	-	-
Hardness (CaCO ₃)	mg/L	37	24	31	45	48	19	40	26.2	37.9	40	26	46	49	42
Nonfiltrable Residue (105°C)	mg/L	-	-	-	-	-	-	-	1	7	<1	5	1	<1	2
Filtrable Residue (105°C)	mg/L	-	-	-	-	-	-	-	38	54	54	38	59	80	76
Suspended Solids	mg/L	<1	3	<1	<1	<1	6	<1	-	-	-	-	-	-	-
Dissolved Solids	mg/L	98	39	50	69	66	36	62	-	-	-	-	-	-	-
Turbidity	NTU	-	-	-	-	-	1.7	0.2	0.1	1	0.15	0.45	0.1	0.2	0.3
pH	pH units	7.3	7.4	7.5	7.9	7.3	7.9	7.7	7.6	7.8	7.4	7.5	7.8	7.9	7.8
True Colour	units	-	-	-	-	-	5	<5	-	-	<5	5	<5	<5	<5
Dissolved Anions															
Total Alkalinity	mg/L	-	-	-	-	-	16	32	-	-	29	20	33	36	40
Calcium	mg/L	12.6	8.2	10.6	15.6	16.5	6.7	14	9.29	13.2	14	9.3	16	17	14
Magnesium	mg/L	1.35	0.85	1	1.48	1.6	0.6	1.2	0.73	1.2	1.2	0.6	1.4	1.6	1.7
Fluoride	mg/L	0.21	0.19	0.1	<0.1	0.19	0.15	0.19	-	-	0.2	0.18	0.19	0.17	0.18
Sulphate	mg/L	9	5	6	12	12	4	10	6.8	8.9	9.9	6	12	12	13
Dissolved Metals															
Arsenic	mg/L	<0.001	-	-	<0.001	<0.001	<0.005	<0.005	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.005	<0.005	<0.0005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	mg/L	0.001	0.0007	0.0003	0.0003	0.0002	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
Iron	mg/L	0.002	0.017	0.003	0.005	<0.001	<0.01	0.03	<0.01	0.1	0.011	0.02	0.01	0.02	0.03
Lead	mg/L	0.001	<0.001	<0.001	0.003	<0.001	<0.01	<0.01	<0.001	<0.001	<0.01	<0.01	0.01	0.01	<0.01
Mercury	mg/L	<0.00005	-	-	<0.00005	<0.00005	<0.00025	<0.00025	-	-	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.002	0.001	0.002	0.002	0.005	<0.05	<0.05	0.0005	0.0007	<0.05	<0.03	<0.03	<0.03	<0.03
Silver	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.01	<0.01	-	-	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	mg/L	0.001	0.001	0.0005	0.001	0.0008	<0.005	0.022	<0.005	<0.005	0.007	0.008	<0.005	0.022	0.012
Total Metals															
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	<0.0005	<0.0005	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	<0.001	0.001	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	0.04	0.5	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	<0.001	0.004	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	<0.05	<0.05	-	-	-	-	-
Molybdenum	mg/L	-	-	-	-	-	-	-	0.0014	0.0007	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	<0.005	<0.005	-	-	-	-	-

Notes: Data analyzed by Beak Analytical Services, Richmond.

- = data not analyzed.

a = At time of collection, the fault zone was quite wet and contained a lot of broken gravelling material.

Analytical Water Quality Results from Station 3, MAX Molybdenum Project

Parameter	Units	Station 3 27-Oct-78	Station 3 30-May-79	Station 3 04-Jul-79	Station 3 29-Aug-79	Station 3 27-Aug-80	Station 3 10-Jun-81
Physical Tests							
Specific Conductance	µmhos/cm	-	-	-	-	-	-
Hardness (CaCO ₃)	mg/L	87	80	65	76	78	34
Nonfiltrable Residue (105°C)	mg/L	-	-	-	-	-	2
Filtrable Residue (105°C)	mg/L	-	-	-	-	-	58
Suspended Solids	mg/L	1	2	2	2	<1	-
Dissolved Solids	mg/L	145	90	95	111	101	-
Turbidity	NTU	-	-	-	-	0.35	0.15
pH	pH units	7.3	7.8	7.8	8.2	7.9	7.7
True Colour	units	-	-	-	-	<5	5
Dissolved Anions							
Total Alkalinity	mg/L	-	-	-	-	71	29
Calcium	mg/L	25.6	24	20.7	22.1	24	11
Magnesium	mg/L	5.5	4.9	3.3	4.95	4.3	1.6
Fluoride	mg/L	<0.1	<0.1	<0.1	<0.1	0.1	<0.05
Sulphate	mg/L	12	7	10	13	12	6
Dissolved Metals							
Arsenic	mg/L	<0.001	-	-	<0.001	<0.005	<0.005
Cadmium	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.005	<0.005
Copper	mg/L	0.001	0.0002	0.0003	0.0004	<0.005	<0.005
Iron	mg/L	0.002	0.015	0.002	0.002	0.024	0.02
Lead	mg/L	0.001	<0.001	<0.001	0.002	<0.01	<0.01
Mercury	mg/L	<0.00005	-	-	<0.00005	<0.00025	<0.00025
Molybdenum	mg/L	0.015	0.006	0.01	0.015	<0.05	<0.03
Silver	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.01	<0.01
Zinc	mg/L	0.002	0.002	0.004	0.0008	0.013	0.01
Total Metals							
Arsenic	mg/L					-	
Cadmium	mg/L					-	
Copper	mg/L					-	
Iron	mg/L					-	
Lead	mg/L					-	
Mercury	mg/L					-	
Molybdenum	mg/L					-	
Silver	mg/L					-	
Zinc	mg/L					-	

Notes: Data analyzed by Beak Analytical Services, Richmond.

- = data not analyzed.

a = At time of collection, the fault zone was quite wet and contained a lot of broken gravelling material.

Analytical Water Quality Results from Station 4, MAX Molybdenum Project

Parameter	Units	Station 4 27-Oct-78	Station 4 30-May-79	Station 4 04-Jul-79	Station 4 29-Aug-79	Station 4 22-Jan-80	Station 4 07-May-80	Station 4 27-Aug-80	Station 4 15-Jan-81	Station 4 10-Jun-81	Station 4 17-Sep-81	Station 4 29-Jan-82	Station 4 07-May-82
Physical Tests													
Specific Conductance	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (CaCO ₃)	mg/L	99	80	80	85	118	76	127	98	84	96	119	76
Nonfiltrable Residue (105°C)	mg/L	-	-	-	-	-	-	-	<1	2	<1	<1	<1
Filtrable Residue (105°C)	mg/L	-	-	-	-	-	-	-	109	110	108	131	101
Suspended Solids	mg/L	<1	4	1	1	<1	5	<1	-	-	-	-	-
Dissolved Solids	mg/L	160	91	102	120	129	95	132	-	-	-	-	-
Turbidity	NTU	-	-	-	-	-	0.35	0.35	0.2	0.1	0.12	0.4	0.25
pH	pH units	7.4	7.8	8	8.3	7.7	8	8	8	8.1	8.2	8.2	8.1
True Colour	units	-	-	-	-	-	5	<5	<5	5	<5	<5	<5
Dissolved Anions													
Total Alkalinity	mg/L	-	-	-	-	-	73	115	90	82	87	113	83
Calcium	mg/L	31.4	25.8	26.7	30.2	36	23	40	32	26	32	35	24
Magnesium	mg/L	4.9	3.85	3.3	3.9	6.9	4.4	6.5	4.5	4.7	3.9	7.7	4
Fluoride	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	0.057	0.05	<0.05	<0.05	<0.05	<0.05
Sulphate	mg/L	9	7	8	11	8	5	7	12	8	12	8	11
Dissolved Metals													
Arsenic	mg/L	<0.001	-	-	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	mg/L	0.001	0.0002	0.0002	0.0004	0.0002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Iron	mg/L	0.005	0.015	0.002	0.006	0.015	<0.01	0.06	0.02	0.07	0.01	0.03	0.04
Lead	mg/L	0.001	<0.001	<0.001	0.002	<0.001	<0.01	<0.01	0.01	0.01	0.01	0.01	0.01
Mercury	mg/L	<0.00005	-	-	<0.00005	<0.00007	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	<0.002	0.001	0.003	0.002	0.005	<0.05	<0.05	<0.05	<0.03	<0.03	<0.03	<0.03
Silver	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	mg/L	0.0007	0.002	0.004	0.002	0.0004	<0.005	0.051	0.008	0.019	<0.005	<0.005	0.014
Total Metals													
Arsenic	mg/L					-	-	-					
Cadmium	mg/L					-	-	-					
Copper	mg/L					-	-	-					
Iron	mg/L					-	-	-					
Lead	mg/L					-	-	-					
Mercury	mg/L					-	-	-					
Molybdenum	mg/L					-	-	-					
Silver	mg/L					-	-	-					
Zinc	mg/L					-	-	-					

Notes: Data analyzed by Beak Analytical Services, Richmond.

- = data not analyzed.

a = At time of collection, the fault zone was quite wet and contained a lot of broken gravelling material.

Red values exceed CCME criteria; Blue values exceed both CCME and BC criteria

Analytical Water Quality Results from Station 5, MAX Molybdenum Project

Parameter	Units	Station 5 27-Oct-78	Station 5 07-Mar-79	Station 5 30-May-79	Station 5 04-Jul-79	Station 5 29-Aug-79	Station 5 22-Jan-80	Station 5 07-May-80	Station 5 15-Apr-80	Station 5 12-Jun-80	Station 5 23-Jul-80	Station 5 27-Aug-80	Station 5 ^a 24-Sep-80	Station 5 15-Jan-81	Station 5 10-Jun-81	Station 5 17-Sep-81	Station 5 29-Jan-82	Station 5 07-May-82
Physical Tests																		
Specific Conductance	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (CaCO ₃)	mg/L	82	60	67	77	84	96	59	45	95.8	95	109	111	100	86	122	114	57
Nonfiltrable Residue (105°C)	mg/L	-	-	-	-	-	-	-	-	-	-	-	6	2	2	1	2	5
Filtrable Residue (105°C)	mg/L	-	-	-	-	-	-	-	-	-	-	-	139	129	109	149	141	94
Suspended Solids	mg/L	<1	1	4	1	<1	5	6	51	6	3	2	-	-	-	-	-	-
Dissolved Solids	mg/L	141	81	76	98	106	114	95	70	153	126	145	-	-	-	-	-	-
Turbidity	NTU	-	-	-	-	-	-	2.8	-	1	2.5	4.5	3.2	3.4	0.35	0.73	0.8	2
pH	pH units	7.4	7	7.7	7.9	8.3	7.7	8	7.7	8	8.2	8.2	8.1	7.9	8.2	8.1	8.1	7.9
True Colour	units	-	-	-	-	-	-	10	-	5	<5	<5	<5	<5	<5	<5	<5	10
Dissolved Anions																		
Total Alkalinity	mg/L	-	-	-	-	-	-	55	-	70	86	93	93	89	76	97	94	56
Calcium	mg/L	25	17.8	21	25	29.2	30	19	11.6	27	29	32	32	29	28	36	33	16
Magnesium	mg/L	4.85	3.9	3.55	3.4	4.49	5.2	2.9	3.9	6.9	5.5	7.1	7.5	6.7	4	7.9	7.6	4
Fluoride	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.05	<0.1	0.062	0.2	0.14	0.14	0.15	0.11	0.22	0.21	0.06
Sulphate	mg/L	7	<1	6	8	9	13	9	11	11	19	20	24	22	19	35	29	19
Dissolved Metals																		
Arsenic	mg/L	<0.001	<0.001	-	-	<0.001	<0.001	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.005	<0.0001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	mg/L	0.001	0.0004	0.0009	0.0005	0.0005	0.0002	<0.005	0.0008	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Iron	mg/L	0.08	0.14	0.03	0.016	0.013	0.028	<0.01	0.056	0.03	0.036	0.073	0.11	0.056	0.05	0.04	0.06	0.08
Lead	mg/L	0.001	<0.001	<0.001	<0.001	0.001	0.001	<0.01	<0.001	0.03	0.03	0.01	0.015	<0.01	0.01	0.02	0.01	0.01
Mercury	mg/L	<0.00005	<0.00005	-	-	<0.00005	<0.00005	<0.00025	-	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	<0.002	0.004	0.002	0.002	0.005	0.005	<0.05	<0.001	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.03	0.03	<0.03
Silver	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.01	<0.0001	<0.01	<0.01	<0.01	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	mg/L	0.001	0.002	0.003	0.002	0.002	0.005	<0.005	0.0008	<0.005	<0.005	0.027	0.014	0.019	0.011	0.011	<0.005	0.035
Total Metals																		
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes: Data analyzed by Beak Analytical Services, Richmond.

- = data not analyzed.

a = At time of collection, the fault zone was quite wet and contained a lot of broken gravelling material.

Red values exceed CCME criteria; Blue values exceed both CCME and BC criteria

Analytical Water Quality Results from Station 6, MAX Molybdenum Project

Parameter	Units	Station 6 27-Oct-78	Station 6 07-Mar-79	Station 6 30-May-79	Station 6 04-Jul-79	Station 6 29-Aug-79	Station 6 22-Jan-80	Station 6 07-May-80	Station 6 27-Aug-80	Station 6 15-Jan-81	Station 6 10-Jun-81	Station 6 17-Sep-81	Station 6 29-Jan-82	Station 6 07-May-82
Physical Tests														
Specific Conductance	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (CaCO ₃)	mg/L	50	68	34	35	55	68	26	54	55	32	59	63	56
Nonfiltrable Residue (105°C)	mg/L	-	-	-	-	-	-	-	-	<1	4	2	<1	2
Filtrable Residue (105°C)	mg/L	-	-	-	-	-	-	-	-	66	52	74	79	84
Suspended Solids	mg/L	<1	<1	6	2	<1	<1	5	<1	-	-	-	-	-
Dissolved Solids	mg/L	105	86	43	58	74	85	45	80	-	-	-	-	-
Turbidity	NTU	-	-	-	-	-	-	2.5	0.45	0.2	0.65	0.2	0.2	0.45
pH	pH units	7.4	7.2	7.4	7.5	8.1	7.8	7.5	7.7	7.6	7.6	7.6	7.8	7.9
True Colour	units	-	-	-	-	-	-	5	<5	<5	5	<5	<5	<5
Dissolved Anions														
Total Alkalinity	mg/L	-	-	-	-	-	-	22	47	47	26	48	54	59
Calcium	mg/L	16	21.4	11	11.5	19.4	21.5	8.8	18	18	11	19	20	17
Magnesium	mg/L	2.4	3.6	1.6	1.5	2.74	3.4	1	2.2	2.5	1.1	2.7	3.1	3.4
Fluoride	mg/L	0.16	0.14	0.14	<0.1	<0.1	0.16	0.16	0.17	0.16	0.16	0.13	0.13	0.14
Sulphate	mg/L	8	11	5	7	10	10	4	10	11	7	13	12	13
Dissolved Metals														
Arsenic	mg/L	<0.001	<0.001	-	-	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	mg/L	0.001	0.0004	0.0005	0.0008	0.0004	0.0002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Iron	mg/L	0.044	0.084	0.02	0.013	0.04	0.057	<0.01	0.063	0.046	0.03	0.05	<0.01	0.06
Lead	mg/L	0.001	<0.001	0.001	<0.001	0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury	mg/L	<0.00005	<0.00005	-	-	<0.00005	<0.00005	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	<0.002	0.002	0.001	0.001	0.002	0.004	<0.05	<0.05	<0.05	<0.03	<0.03	<0.03	<0.03
Silver	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	mg/L	0.002	0.002	0.004	0.001	0.001	0.0008	<0.005	0.012	0.011	0.017	<0.005	0.006	0.031
Total Metals														
Arsenic	mg/L							-	-	-				
Cadmium	mg/L							-	-	-				
Copper	mg/L							-	-	-				
Iron	mg/L							-	-	-				
Lead	mg/L							-	-	-				
Mercury	mg/L							-	-	-				
Molybdenum	mg/L							-	-	-				
Silver	mg/L							-	-	-				
Zinc	mg/L							-	-	-				

Notes: Data analyzed by Beak Analytical Services, Richmond.

- = data not analyzed.

a = At time of collection, the fault zone was quite wet and contained a lot of broken gravelling material.

Analytical Water Quality Results from Station 7, MAX Molybdenum Project

Parameter	Units	Station 7 27-Oct-78	Station 7 07-Mar-79	Station 7 30-May-79	Station 7 04-Jul-79	Station 7 29-Aug-79	Station 7 22-Jan-80	Station 7 07-May-80	Station 7 27-Aug-80	Station 7 15-Jan-81	Station 7 10-Jun-81	Station 7 17-Sep-81	Station 7 29-Jan-82	Station 7 07-May-82
Physical Tests														
Specific Conductance	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (CaCO ₃)	mg/L	50	55	35	41	62	71	33	59	64	33	64	73	53
Nonfiltrable Residue (105°C)	mg/L	-	-	-	-	-	-	-	-	<1	2	2	<1	4
Filtrable Residue (105°C)	mg/L	-	-	-	-	-	-	-	-	82	46	79	85	76
Suspended Solids	mg/L	<1	4	2	2	2	2	4	<1	-	-	-	-	-
Dissolved Solids	mg/L	105	71	48	58	79	88	51	82	-	-	-	-	-
Turbidity	NTU	-	-	-	-	-	-	1.7	1.5	1	0.7	0.4	0.7	2.2
pH	pH units	7.3	7.1	7.3	7.2	7.9	7.3	7	7.4	7.6	7.5	7.5	7.8	7.7
True Colour	units	-	-	-	-	-	-	5	<5	<5	5	<5	<5	5
Dissolved Anions														
Total Alkalinity	mg/L	-	-	-	-	-	-	27	54	56	30	55	64	55
Calcium	mg/L	16.2	17.9	11	13.2	21.7	22.5	11	19	20	11	20	23	16
Magnesium	mg/L	2.45	2.5	1.75	1.8	3.1	3.6	1.4	2.8	3.3	1.3	3.3	3.9	3.2
Fluoride	mg/L	0.16	<0.1	0.14	<0.1	<0.1	0.14	0.15	0.17	0.16	0.14	0.14	0.12	0.1
Sulphate	mg/L	8	8	5	6	8	9	5	9	11	7	13	11	13
Dissolved Metals														
Arsenic	mg/L	<0.001	<0.001	-	-	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium	mg/L	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	mg/L	0.0007	0.0007	0.003	0.002	0.0005	0.0002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Iron	mg/L	0.22	0.026	0.043	0.047	0.31	0.2	<0.01	0.17	0.18	0.08	0.12	0.31	0.12
Lead	mg/L	0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury	mg/L	0.00005	<0.00005	-	-	<0.00005	<0.00005	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	<0.002	0.002	0.001	0.001	0.001	0.005	<0.05	<0.05	<0.05	<0.03	<0.03	<0.03	<0.03
Silver	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	mg/L	0.003	0.004	0.002	0.002	0.001	0.0008	<0.005	0.01	0.018	0.03	<0.005	<0.005	0.016
Total Metals														
Arsenic	mg/L							-	-	-				
Cadmium	mg/L							-	-	-				
Copper	mg/L							-	-	-				
Iron	mg/L							-	-	-				
Lead	mg/L							-	-	-				
Mercury	mg/L							-	-	-				
Molybdenum	mg/L							-	-	-				
Silver	mg/L							-	-	-				
Zinc	mg/L							-	-	-				

Notes: Data analyzed by Beak Analytical Services, Richmond.

- = data not analyzed.

a = At time of collection, the fault zone was quite wet and contained a lot of broken gravelling material.

Red values exceed CCME criteria; Blue values exceed both CCME and BC criteria

Analytical Water Quality Results from Station 8, MAX Molybdenum Project

Parameter	Units	Station 8 27-Oct-78	Station 8 30-May-79	Station 8 04-Jul-79	Station 8 29-Aug-79	Station 8 22-Jan-80	Station 8 07-May-80	Station 8 27-Aug-80	Station 8 15-Jan-81	Station 8 10-Jun-81	Station 8 17-Sep-81	Station 8 07-May-82
Physical Tests												
Specific Conductance	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-
Hardness (CaCO ₃)	mg/L	46	50	46	44	52	52	46	52	51	47	39
Nonfiltrable Residue (105°C)	mg/L	-	-	-	-	-	-	-	<1	3	2	1
Filtrable Residue (105°C)	mg/L	-	-	-	-	-	-	-	67	62	60	56
Suspended Solids	mg/L	<1	1	1	<1	<1	<1	<1	-	-	-	-
Dissolved Solids	mg/L	97	61	62	54	68	66	72	-	-	-	-
Turbidity	NTU	-	-	-	-	-	0.4	0.35	0.25	0.5	0.5	0.4
pH	pH units	7.3	7.6	7.7	8.1	7.6	7.6	7.9	7.6	7.9	8	7.8
True Colour	units	-	-	-	-	-	<5	<5	<5	<5	<5	<5
Dissolved Anions												
Total Alkalinity	mg/L	-	-	-	-	-	44	39	45	44	38	41
Calcium	mg/L	14.8	15.8	14.9	15.6	16.5	17	15	17	17	15	12
Magnesium	mg/L	2.25	2.65	2.2	2.1	2.5	2.3	2	2.4	2.1	2.2	2.3
Fluoride	mg/L	<0.1	<0.1	<0.1	<0.1	0.12	0.12	0.092	0.1	0.1	0.06	0.09
Sulphate	mg/L	8	9	8	8	8	9	9	9.6	10	11	10
Dissolved Metals												
Arsenic	mg/L	<0.001	-	-	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium	mg/L	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	mg/L	0.002	0.0007	0.0004	0.0007	0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Iron	mg/L	0.002	0.001	0.003	0.004	0.001	<0.01	0.015	0.01	0.04	0.01	0.03
Lead	mg/L	0.002	0.001	<0.001	0.001	<0.001	<0.01	<0.01	<0.01	0.01	<0.01	<0.01
Mercury	mg/L	<0.00005	-	-	<0.00005	<0.00005	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	<0.002	0.001	0.001	0.001	0.003	<0.05	<0.05	<0.05	<0.03	<0.03	<0.03
Silver	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	mg/L	0.002	0.01	0.01	0.001	0.005	<0.005	0.013	0.014	0.016	<0.005	0.016
Total Metals												
Arsenic	mg/L						-	-	-			
Cadmium	mg/L						-	-	-			
Copper	mg/L						-	-	-			
Iron	mg/L						-	-	-			
Lead	mg/L						-	-	-			
Mercury	mg/L						-	-	-			
Molybdenum	mg/L						-	-	-			
Silver	mg/L						-	-	-			
Zinc	mg/L						-	-	-			

Notes: Data analyzed by Beak Analytical Services, Richmond.

- = data not analyzed.

a = At time of collection, the fault zone was quite wet and contained a lot of broken gravelling material.

Analytical Water Quality Results from Station 9, MAX Molybdenum Project

Parameter	Units	Station 9 22-Jan-80	Station 9 07-May-80	Station 9 27-Aug-80	Station 9 15-Jan-81	Station 9 10-Jun-81	Station 9 17-Sep-81	Station 9 29-Jan-82	Station 9 07-May-82
Physical Tests									
Specific Conductance	µmhos/cm	-	-	-	-	-	-	-	-
Hardness (CaCO ₃)	mg/L	81	45	64	74	51	62	77	54
Nonfiltrable Residue (105°C)	mg/L	-	-	-	<1	6	3	<1	2
Filtrable Residue (105°C)	mg/L	-	-	-	92	66	75	92	78
Suspended Solids	mg/L	<1	39	2	-	-	-	-	-
Dissolved Solids	mg/L	98	61	81	-	-	-	-	-
Turbidity	NTU	-	28	1.7	0.4	1.2	0.45	0.4	0.3
pH	pH units	7.8	7.8	8	7.8	7.9	8	8	8
True Colour	units	-	5	<5	<5	<5	<5	<5	<5
Dissolved Anions									
Total Alkalinity	mg/L	-	37	54	64	45	50	63	54
Calcium	mg/L	26	15	21	24	17	20	25	17
Magnesium	mg/L	3.9	1.7	2.8	3.3	2	2.8	3.6	2.8
Fluoride	mg/L	<0.1	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05
Sulphate	mg/L	15	11	12	14	11	16	15	14
Dissolved Metals									
Arsenic	mg/L	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium	mg/L	<0.0001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	mg/L	0.0002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Iron	mg/L	0.002	<0.01	0.015	0.026	0.08	0.01	0.01	0.04
Lead	mg/L	<0.001	<0.01	<0.01	<0.01	0.01	<0.01	0.01	<0.01
Mercury	mg/L	<0.00005	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.005	<0.05	<0.05	<0.05	<0.03	<0.03	<0.03	<0.03
Silver	mg/L	<0.0001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	mg/L	0.011	<0.005	0.012	0.017	0.024	<0.005	0.018	0.019
Total Metals									
Arsenic	mg/L	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-
Molybdenum	mg/L	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-

Notes: Data analyzed by Beak Analytical Services, Richmond.

- = data not analyzed.

a = At time of collection, the fault zone was quite wet and contained a lot of broken gravelling material.

Analytical Water Quality Results from Station 10, MAX Molybdenum Project

Parameter	Units	Station 10 22-Jan-80	Station 10 07-May-80	Station 10 27-Aug-80	Station 10 15-Jan-81	Station 10 10-Jun-81	Station 10 17-Sep-81	Station 10 29-Jan-82	Station 10 07-May-82
Physical Tests									
Specific Conductance	µmhos/cm	-	-	-	-	-	-	-	-
Hardness (CaCO ₃)	mg/L	79	42	64	71	48	62	62	52
Nonfiltrable Residue (105°C)	mg/L	-	-	-	<1	6	2	<1	5
Filtrable Residue (105°C)	mg/L	-	-	-	81	61	79	82	75
Suspended Solids	mg/L	<1	45	2	-	-	-	-	-
Dissolved Solids	mg/L	96	60	82	-	-	-	-	-
Turbidity	NTU	-	28	2.1	0.45	2.5	0.45	0.5	1.8
pH	pH units	7.7	7.8	7.9	7.8	8.1	8	8	7.9
True Colour	units	-	5	<5	<5	<5	<5	<5	<5
Dissolved Anions									
Total Alkalinity	mg/L	-	36	52	58	43	50	62	50
Calcium	mg/L	25	14	21	23	16	20	19	16
Magnesium	mg/L	3.9	1.7	2.8	3.4	2	2.8	3.6	2.8
Fluoride	mg/L	<0.1	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05
Sulphate	mg/L	16	7	13	14	10	15	15	14
Dissolved Metals									
Arsenic	mg/L	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium	mg/L	<0.0001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	mg/L	0.0003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Iron	mg/L	0.002	<0.01	0.02	0.015	0.02	<0.01	0.01	0.04
Lead	mg/L	<0.001	<0.01	<0.01	<0.01	0.02	0.01	<0.01	<0.01
Mercury	mg/L	<0.00005	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.006	<0.05	<0.05	<0.05	<0.03	<0.03	<0.03	<0.03
Silver	mg/L	<0.0001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	mg/L	0.011	<0.005	0.012	0.019	0.019	<0.005	0.013	0.032
Total Metals									
Arsenic	mg/L	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-
Molybdenum	mg/L	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-

Notes: Data analyzed by Beak Analytical Services, Richmond.

- = data not analyzed.

a = At time of collection, the fault zone was quite wet and contained a lot of broken gravelling material.

Analytical Water Quality Results from Station 11, MAX Molybdenum Project

Parameter	Units	Station 11 22-Jan-80	Station 11 07-May-80	Station 11 27-Aug-80	Station 11 15-Jan-81	Station 11 10-Jun-81	Station 11 17-Sep-81	Station 11 29-Jan-82	Station 11 07-May-82
Physical Tests									
Specific Conductance	µmhos/cm	-	-	-	-	-	-	-	-
Hardness (CaCO ₃)	mg/L	69	91	49	59	41	41	52	64
Nonfiltrable Residue (105°C)	mg/L	-	-	-	<1	4	2	<1	<1
Filtrable Residue (105°C)	mg/L	-	-	-	76	61	62	75	93
Suspended Solids	mg/L	<1	2	1	-	-	-	-	-
Dissolved Solids	mg/L	86	113	71	-	-	-	-	-
Turbidity	NTU	-	0.75	0.5	0.45	0.45	0.15	0.35	2.2
pH	pH units	7.6	7.5	7.9	7.7	7.9	7.8	7.8	8.1
True Colour	units	-	5	<5	<5	5	<5	<5	<5
Dissolved Anions									
Total Alkalinity	mg/L	-	87	43	49	36	34	53	63
Calcium	mg/L	23	29	17	20	15	14	17	21
Magnesium	mg/L	2.7	4.4	1.7	2.1	1.2	1.4	2.4	2.7
Fluoride	mg/L	0.12	0.11	0.12	0.1	0.11	0.11	0.09	0.09
Sulphate	mg/L	10	7	8	11	9	10	10	15
Dissolved Metals									
Arsenic	mg/L	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium	mg/L	<0.0001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	mg/L	0.0002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Iron	mg/L	0.07	<0.01	0.12	0.038	0.03	0.02	0.06	0.05
Lead	mg/L	<0.001	<0.01	0.016	<0.01	0.01	<0.01	0.01	<0.01
Mercury	mg/L	<0.00005	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.007	<0.05	<0.05	<0.05	<0.03	<0.03	<0.03	<0.03
Silver	mg/L	<0.0001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	mg/L	0.0005	<0.005	0.024	0.006	0.007	<0.005	<0.005	0.012
Total Metals									
Arsenic	mg/L	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-
Molybdenum	mg/L	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-

Notes: Data analyzed by Beak Analytical Services, Richmond.

- = data not analyzed.

a = At time of collection, the fault zone was quite wet and contained a lot of broken gravelling material.

Analytical Water Quality Results from Station 12, MAX Molybdenum Project

Parameter	Units	Station 12 17-Dec-80	Station 12 15-Jan-81	Station 12 12-Feb-81	Station 12 18-Mar-81	Station 12 10-Jun-81	Station 12 09-Jul-81	Station 12 14-Aug-81	Station 12 17-Sep-81	Station 12 21-Oct-81	Station 12 29-Jan-82
Physical Tests											
Specific Conductance	µmhos/cm	-	-	-	-	-	-	-	-	-	-
Hardness (CaCO ₃)	mg/L	110	118	103	106	129	126	124	128	132	128
Nonfiltrable Residue (105°C)	mg/L	14	69	158	23	1	1	7	9	1	<1
Filtrable Residue (105°C)	mg/L	148	149	158	158	187	168	167	168	180	166
Suspended Solids	mg/L	-	-	-	-	-	-	-	-	-	-
Dissolved Solids	mg/L	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	14	37	68	20	1.5	2.8	5.5	1.5	1	0.55
pH	pH units	8	7.9	8	8	8.1	8	7.9	7.8	8	7.9
True Colour	units	<5	<5	5	<5	<5	5	5	<5	<5	<5
Dissolved Anions											
Total Alkalinity	mg/L	95	96	96	95	102	98	98	98	101	98
Calcium	mg/L	30	33	28	29	37	35	35	36	37	36
Magnesium	mg/L	8.6	8.6	8.1	8.1	9	9.5	8.9	9.2	9.6	9.4
Fluoride	mg/L	0.29	0.28	0.42	0.57	0.37	0.39	0.34	0.3	0.28	0.31
Sulphate	mg/L	32	37	30	29	55	40	41	43	45	39
Dissolved Metals											
Arsenic	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Iron	mg/L	0.03	0.028	0.024	0.026	0.07	0.04	0.03	0.02	0.06	0.12
Lead	mg/L	<0.010	0.011	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	<0.05	<0.05	0.07	0.08	0.14	0.08	0.07	0.05	0.05	0.04
Silver	mg/L	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	mg/L	0.007	0.008	0.021	0.006	0.011	0.034	0.023	<0.005	0.009	<0.005
Total Metals											
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-
Molybdenum	mg/L	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-

Notes: Data analyzed by Beak Analytical Services, Richmond.

- = data not analyzed.

a = At time of collection, the fault zone was quite wet and contained a lot of broken gravelling material.

Red values exceed CCME criteria; Blue values exceed both CCME and BC criteria

Analytical Water Quality Results from Station 13, MAX Molybdenum Project

Parameter	Units	Station 13 22-Jan-80	Station 13 13-Feb-80	Station 13 27-Feb-80	Station 13 15-Apr-80	Station 13 07-May-80	Station 13 12-Jun-80	Station 13 23-Jul-80	Station 13 27-Aug-80	Station 13 ^a 24-Sep-80	Station 13 17-Dec-80	Station 13 15-Jan-81	Station 13 12-Feb-81	Station 13 18-Mar-81	Station 13 10-Jun-81	Station 13 09-Jul-81	Station 13 14-Aug-81	Station 13 17-Sep-81	Station 13 21-Oct-81	Station 13 07-May-82
Physical Tests																				
Specific Conductance	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (CaCO ₃)	mg/L	112	102	-	47.6	101	71.4	110	114	110	110	112	111	105	122	113	136	125	123	138
Nonfiltrable Residue (105°C)	mg/L	-	-	-	-	-	-	-	-	362	23	40	54	16	1	2	2	2	2	<1
Filtrable Residue (105°C)	mg/L	-	-	-	-	-	-	-	-	184	154	144	166	155	171	158	183	160	172	199
Suspended Solids	mg/L	146	111	-	197	63	32	152	18	-	-	-	-	-	-	-	-	-	-	-
Dissolved Solids	mg/L	273	139	-	73	148	100	92	154	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	-	-	-	-	34	6.5	52	31	180	17	27	24	13	0.8	2	5.5	1.3	1.5	3.7
pH	pH units	7.7	7.1	-	7.8	7.9	8	8.1	8	8.1	8	7.9	7.8	8	8.1	7.9	7.9	7.8	8.1	8
True Colour	units	-	-	-	-	5	5	<5	<5	<5	<5	<5	<5	<5	<5	5	5	<5	<5	<5
Dissolved Anions																				
Total Alkalinity	mg/L	-	-	-	-	87	92	95	94	93	93	94	96	94	96	88	100	99	100	104
Calcium	mg/L	34	31	-	12.8	30	22	31	32	30	30	31	31	29	35	32	39	35	34	40
Magnesium	mg/L	6.5	6	-	3.8	6.4	4	8	8.3	8.5	8.6	8.3	8.2	8	8.3	8.1	9.3	9.1	9.3	9.2
Fluoride	mg/L	<0.1	0.17	-	<0.1	0.15	0.162	0.2	0.19	0.2	0.28	0.28	0.39	0.5	0.34	0.27	0.3	0.31	0.31	0.28
Sulphate	mg/L	23	21	-	14	30	31	30	29	29	31	35	31	31	50	40	40	43	42	65
Dissolved Metals																				
Arsenic	mg/L	-	-	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium	mg/L	-	-	<0.0001	<0.0001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	mg/L	-	-	0.0003	0.0006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Iron	mg/L	-	-	0.008	0.09	<0.01	0.03	0.021	0.04	0.02	0.015	0.019	0.02	0.022	0.06	0.04	0.03	0.02	0.03	0.18
Lead	mg/L	-	-	0.001	<0.001	<0.01	0.02	0.025	<0.01	0.021	<0.010	0.011	0.03	0.02	0.02	0.02	0.02	0.01	0.02	0.02
Mercury	mg/L	-	-	<0.00005	<0.00025	<0.00025	<0.00025	<0.00025	0.00049	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	-	-	0.01	<0.003	<0.05	<0.05	<0.05	0.06	<0.05	0.05	0.06	0.06	0.06	0.14	0.06	0.07	0.05	0.05	0.03
Silver	mg/L	-	-	<0.0001	<0.0001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	mg/L	-	-	0.001	0.0077	<0.005	<0.005	<0.005	0.024	0.09	0.01	0.01	0.007	0.006	0.012	0.026	0.01	<0.005	0.007	0.023
Total Metals																				
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes: Data analyzed by Beak Analytical Services, Richmond.

- = data not analyzed.

a = At time of collection, the fault zone was quite wet and contained a lot of broken gravelling material.

Red values exceed CCME criteria; Blue values exceed both CCME and BC criteria

Analytical Water Quality Results from 1997, MAX Molybdenum Project

Parameter	Units	TL-1	TL-2	TL-3	TL-4	TL-5	BG	BG-2	Travel Blank
		04-Sep-97	04-Sep-97	04-Sep-97	04-Sep-97	04-Sep-97	04-Sep-97	04-Sep-97	04-Sep-97
Physical Tests									
Conductivity	µmhos/cm	380	382	383	383	388	137	195	-
Total Dissolved Solids	mg/L	234	241	242	235	239	78	110	-
pH	pH units	7.37	7.48	7.49	7.47	7.53	7.31	7.8	-
Dissolved Anions									
Total Alkalinity	mg/L	131	123	132	126	129	61	90	-
Chloride	mg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Sulphate	mg/L	70	73	71	77	72	8	9	-
Total Metals									
Aluminum	mg/L	<0.005	<0.005	<0.005	<0.005	0.09	0.022	0.015	<0.005
Antimony	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Arsenic	mg/L	0.0005	0.0005	0.0004	0.0002	0.0026	0.0002	0.0001	<0.0001
Barium	mg/L	0.01	0.01	0.01	0.01	0.02	<0.01	<0.01	<0.01
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Calcium	mg/L	54.1	55.2	55.4	54	56.2	19.8	30.5	<0.05
Chromium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Iron	mg/L	0.24	0.24	0.21	0.07	2.27	0.35	0.02	<0.01
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/L	11.3	11.5	11.6	11.4	11.7	3.61	4.05	<0.05
Manganese	mg/L	0.181	0.186	0.182	0.051	0.328	0.06	<0.005	<0.005
Mercury	mg/L	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Molybdenum	mg/L	0.071	0.074	0.076	0.159	0.081	0.003	0.002	<0.001
Nickel	mg/L	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
Potassium	mg/L	1.07	1.07	1.1	1.09	1.15	0.44	0.7	<0.01
Selenium	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Silver	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Sodium	mg/L	2.7	2.74	2.71	2.69	2.78	0.95	0.81	<0.01
Strontium	mg/L	0.708	0.732	0.738	0.72	0.761	0.096	0.172	<0.001
Vanadium	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Zinc	mg/L	<0.005	<0.005	<0.005	<0.005	0.016	<0.005	<0.005	<0.005
Dissolved Metals									
Aluminum	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.011	<0.005	-
Antimony	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-
Arsenic	mg/L	0.0003	0.0003	0.0003	0.0001	0.0003	0.0001	0.0001	-
Barium	mg/L	0.01	0.01	0.01	0.01	0.01	<0.01	<0.01	-
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	-
Calcium	mg/L	53.2	55.2	53.5	55.7	55.8	19.8	30.2	-
Chromium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-
Copper	mg/L	<0.001	<0.001	<0.001	<0.001	0.014	<0.001	<0.001	-
Iron	mg/L	<0.01	<0.01	<0.01	0.03	<0.01	0.06	<0.01	-
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-
Magnesium	mg/L	11.2	11.5	11.3	11.6	11.7	3.6	4.02	-
Manganese	mg/L	0.173	0.179	0.174	0.026	0.145	0.02	<0.005	-
Mercury	mg/L	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	-
Molybdenum	mg/L	0.075	0.077	0.073	0.159	0.081	0.003	0.002	-
Nickel	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-
Potassium	mg/L	1.05	1.07	1.07	1.09	1.12	0.46	0.7	-
Selenium	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-
Silver	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-
Sodium	mg/L	2.7	2.74	2.72	2.68	2.81	0.94	0.81	-
Strontium	mg/L	0.695	0.73	0.709	0.736	0.759	0.096	0.171	-
Vanadium	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-
Zinc	mg/L	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	-

Notes: Data analyzed by ALS Environmental, Vancouver.

- = data not analyzed.

TL-1 = portal discharge.

TL-2 = portal discharge 5 m from entrance.

TL-3 = portal discharge near ore pile.

TL-4 = portal discharge adjacent to metal drums of ore.

TL-5 = portal discharge at outlet of beaver dam.

BG = background water sample from stream approximately 1 km down access road.

BG-2 = background water sample from stream approximately 2 km down access road.

Red values exceed CCME criteria; Blue values exceed both CCME and BC criteria

Shading = Rescan noted as questionable data

Analytical Water Quality Results from 1998, MAX Molybdenum Project

Parameter	Units	Sample #1 (WS 1) 21-May-98	Sample #2 (WS 2) 21-May-98
Physical Tests			
Conductivity	µmhos/cm	374	415
Total Dissolved Solids	mg/L	240	269
pH	pH units	7.8	7.73
Dissolved Anions			
Total Alkalinity	mg/L	115	129
Chloride	mg/L	<0.5	0.6
Sulphate	mg/L	77	88
Total Metals			
Aluminum	mg/L	0.012	0.055
Antimony	mg/L	0.0001	0.0003
Arsenic	mg/L	0.0007	0.0082
Barium	mg/L	<0.01	0.02
Cadmium	mg/L	<0.0002	<0.0002
Calcium	mg/L	58.1	64.6
Chromium	mg/L	<0.001	<0.001
Copper	mg/L	<0.001	0.001
Iron	mg/L	0.01	7.04
Lead	mg/L	<0.001	<0.001
Magnesium	mg/L	11.6	12.2
Manganese	mg/L	0.014	0.814
Mercury	mg/L	<0.00005	<0.00005
Molybdenum	mg/L	0.172	0.203
Nickel	mg/L	<0.001	<0.001
Potassium	mg/L	0.87	1.16
Selenium	mg/L	<0.0005	<0.0005
Silver	mg/L	<0.0001	<0.0001
Sodium	mg/L	2.14	2.5
Strontium	mg/L	0.739	0.975
Vanadium	mg/L	<0.03	<0.03
Zinc	mg/L	<0.005	0.006
Dissolved Metals			
Aluminum	mg/L	0.008	<0.005
Antimony	mg/L	0.0001	<0.0001
Arsenic	mg/L	0.0007	0.0004
Barium	mg/L	<0.01	0.01
Cadmium	mg/L	<0.0002	<0.0002
Calcium	mg/L	59.4	64.1
Chromium	mg/L	<0.001	<0.001
Copper	mg/L	<0.001	<0.001
Iron	mg/L	<0.01	<0.01
Lead	mg/L	<0.001	<0.001
Magnesium	mg/L	11.8	12.2
Manganese	mg/L	0.009	0.496
Mercury	mg/L	<0.00005	<0.00005
Molybdenum	mg/L	0.17	0.204
Nickel	mg/L	<0.001	<0.001
Potassium	mg/L	0.86	1.1
Selenium	mg/L	<0.0005	<0.0005
Silver	mg/L	<0.0001	<0.0001
Sodium	mg/L	2.07	2.52
Strontium	mg/L	0.752	0.965
Vanadium	mg/L	<0.03	<0.03
Zinc	mg/L	<0.005	<0.005

Notes: Data analyzed by ALS Environmental, Vancouver.

Sample #1 = pad seep.

Sample #2 = portal discharge.

Shading = Rescan noted as questionable data

Red values exceed CCME criteria

Blue values exceed both CCME and BC criteria

Analytical Water Quality Results from 2002, MAX Molybdenum Project

Parameter	Units	Trout Lake #1	Inlet to Sedimentation Pond	Discharge from Sedimentation Pond
		15-Aug-02	15-Aug-02	15-Aug-02
Physical Tests				
Conductivity	µS/cm	395	392	391
Total Dissolved Solids	mg/L	242	243	236
pH	pH units	7.32	7.25	7.3
Dissolved Anions				
Total Alkalinity	mg/L	135	127	126
Alkalinity-Bicarbonate	mg/L	135	127	126
Chloride	mg/L	0.8	0.7	0.7
Sulphate	mg/L	73	72	78
Total Metals				
Aluminum	mg/L	0.003	0.001	0.003
Antimony	mg/L	<0.0001	<0.0001	<0.0001
Arsenic	mg/L	0.0005	0.0004	0.0005
Barium	mg/L	0.0109	0.0104	0.0107
Beryllium	mg/L	<0.0005	<0.0005	<0.0005
Bismuth	mg/L	<0.0005	<0.0005	<0.0005
Boron	mg/L	<0.01	<0.01	<0.01
Cadmium	mg/L	<0.00005	<0.00005	<0.00005
Calcium	mg/L	60.5	58.3	58.1
Chromium	mg/L	<0.0005	<0.0005	<0.0005
Cobalt	mg/L	<0.0001	<0.0001	<0.0001
Copper	mg/L	0.0005	0.0001	<0.0001
Iron	mg/L	0.31	0.25	0.34
Lead	mg/L	<0.00005	<0.00005	<0.00005
Lithium	mg/L	<0.005	<0.005	<0.005
Magnesium	mg/L	13.1	12.6	12.7
Manganese	mg/L	0.296	0.273	0.282
Molybdenum	mg/L	0.109	0.109	0.106
Nickel	mg/L	<0.0005	<0.0005	<0.0005
Phosphorus	mg/L	<0.3	<0.3	<0.3
Potassium	mg/L	<2	<2	<2
Selenium	mg/L	<0.001	<0.001	<0.001
Silicon	mg/L	5.28	5.01	5.05
Silver	mg/L	<0.00001	<0.00001	<0.00001
Sodium	mg/L	3	3	3
Strontium	mg/L	0.731	0.729	0.718
Thallium	mg/L	<0.0001	<0.0001	<0.0001
Tin	mg/L	<0.0001	<0.0001	<0.0001
Titanium	mg/L	<0.01	<0.01	<0.01
Uranium	mg/L	0.0018	0.00177	0.00175
Vanadium	mg/L	<0.001	<0.001	<0.001
Zinc	mg/L	0.002	<0.001	0.001
Dissolved Metals				
Aluminum	mg/L	<0.001	<0.001	<0.001
Antimony	mg/L	<0.0001	<0.0001	<0.0001
Arsenic	mg/L	0.0003	0.0003	0.0003
Barium	mg/L	0.0105	0.0102	0.0103
Beryllium	mg/L	<0.0005	<0.0005	<0.0005
Bismuth	mg/L	<0.0005	<0.0005	<0.0005
Boron	mg/L	<0.01	<0.01	<0.01
Cadmium	mg/L	<0.00005	<0.00005	<0.00005
Calcium	mg/L	59.8	60.4	58.6
Chromium	mg/L	<0.0005	<0.0005	<0.0005
Cobalt	mg/L	<0.0001	<0.0001	<0.0001
Copper	mg/L	0.0004	0.0003	<0.0001
Iron	mg/L	<0.03	<0.03	<0.03
Lead	mg/L	<0.00005	<0.00005	<0.00005
Lithium	mg/L	<0.005	<0.005	<0.005
Magnesium	mg/L	13	13.1	12.8
Manganese	mg/L	0.284	0.265	0.268
Molybdenum	mg/L	0.109	0.107	0.108
Nickel	mg/L	<0.0005	<0.0005	<0.0005
Phosphorus	mg/L	<0.3	<0.3	<0.3
Potassium	mg/L	<2	<2	2
Selenium	mg/L	<0.001	<0.001	<0.001
Silicon	mg/L	5.16	5.19	5.04
Silver	mg/L	<0.00001	<0.00001	<0.00001
Sodium	mg/L	3	3	3
Strontium	mg/L	0.737	0.717	0.727
Thallium	mg/L	<0.0001	<0.0001	<0.0001
Tin	mg/L	<0.0001	<0.0001	<0.0001
Titanium	mg/L	<0.01	<0.01	<0.01
Uranium	mg/L	0.00179	0.00175	0.00179
Vanadium	mg/L	<0.001	<0.001	<0.001
Zinc	mg/L	0.001	<0.001	<0.001

Note: Data analyzed by ALS Environmental, Vancouver.

Red values exceed CCME criteria

Blue values exceed both CCME and BC criteria

Shading = Rescan noted as questionable data

Analytical Water Quality Results from 2004, MAX Molybdenum Project

Parameter	Units	RMO1 23-Sep-04	RMO2 23-Sep-04	RMO3 23-Sep-04
Physical Tests				
Conductivity	µS/cm	391	389	354
Total Dissolved Solids	mg/L	250	254	221
pH	pH units	8.08	8.06	8.16
Total Suspended Solids	mg/L	<3.0	3.4	<3.0
Turbidity	NTU	2.77	3.36	1.18
Dissolved Anions				
Total Alkalinity	mg/L	136	134	122
Bromide	mg/L	<0.050	<0.050	<0.050
Chloride	mg/L	<0.50	<0.50	<0.50
Flouride	mg/L	0.221	0.219	0.191
Sulphate	mg/L	71.2	73.1	63.7
Nutrients				
Nitrate Nitrogen	mg/L	<0.10	<0.10	<0.10
Nitrite Nitrogen	mg/L	<0.10	<0.10	<0.10
Total Metals				
Aluminum	mg/L	<0.0030	0.0246	0.0186
Antimony	mg/L	<0.00010	<0.00010	0.00018
Arsenic	mg/L	0.00032	0.00034	0.00040
Barium	mg/L	0.0109	0.0109	0.0108
Beryllium	mg/L	<0.00050	<0.00050	<0.00050
Bismuth	mg/L	<0.00050	<0.00050	<0.00050
Boron	mg/L	<0.010	<0.010	<0.010
Cadmium	mg/L	<0.000050	<0.000050	<0.000050
Calcium	mg/L	59.6	60.2	54.0
Chromium	mg/L	<0.00050	<0.00050	<0.00050
Cobalt	mg/L	<0.00010	<0.00010	<0.00010
Copper	mg/L	<0.00020	0.00050	0.00055
Iron	mg/L	0.162	0.199	0.163
Lead	mg/L	<0.000050	0.000090	0.000090
Lithium	mg/L	<0.0050	<0.0050	<0.0050
Magnesium	mg/L	11.8	12.0	10.8
Manganese	mg/L	0.227	0.210	0.216
Mercury	mg/L	<0.000010	<0.000010	<0.000010
Molybdenum	mg/L	0.0599	0.0596	0.0541
Nickel	mg/L	<0.00050	<0.00050	<0.00050
Phosphorus	mg/L	<0.30	<0.30	<0.30
Potassium	mg/L	<2.0	<2.0	<2.0
Selenium	mg/L	<0.0010	<0.0010	<0.0010
Silicon	mg/L	5.35	5.37	4.93
Silver	mg/L	<0.000010	<0.000010	<0.000010
Sodium	mg/L	3.5	3.4	3.0
Strontium	mg/L	0.746	0.739	0.662
Thallium	mg/L	<0.00010	<0.00010	<0.00010
Tin	mg/L	<0.00010	<0.00010	0.00021
Titanium	mg/L	<0.010	<0.010	<0.010
Uranium	mg/L	0.00167	0.00168	0.00148
Vanadium	mg/L	<0.0010	<0.0010	<0.0010
Zinc	mg/L	<0.0010	0.0011	0.0017
Dissolved Metals				
Aluminum	mg/L	<0.0010	<0.0010	0.0031
Antimony	mg/L	<0.00010	<0.00010	<0.00010
Arsenic	mg/L	0.00029	0.00029	0.00030
Barium	mg/L	0.0109	0.0108	0.00972
Beryllium	mg/L	<0.00050	<0.00050	<0.00050
Bismuth	mg/L	<0.00050	<0.00050	<0.00050
Boron	mg/L	<0.010	<0.010	<0.010
Cadmium	mg/L	<0.000050	<0.000050	<0.000050
Calcium	mg/L	58.4	57.6	53.3
Chromium	mg/L	<0.00060	<0.00060	<0.00070
Cobalt	mg/L	<0.00010	<0.00010	<0.00010
Copper	mg/L	0.00011	<0.00010	0.00023
Iron	mg/L	<0.030	<0.030	<0.030
Lead	mg/L	<0.000050	<0.000050	<0.000050
Lithium	mg/L	<0.0050	<0.0050	<0.0050
Magnesium	mg/L	11.6	11.5	10.7
Manganese	mg/L	0.230	0.231	0.158
		<0.000010	<0.000010	<0.000010
Molybdenum	mg/L	0.0581	0.0583	0.0525
Nickel	mg/L	<0.00050	<0.00050	<0.00050
Phosphorus	mg/L	<0.30	<0.30	<0.30
Potassium	mg/L	<2.0	<2.0	<2.0
Selenium	mg/L	<0.0010	<0.0010	<0.0010
Silicon	mg/L	5.17	5.13	4.81
Silver	mg/L	<0.000010	<0.000010	<0.000010
Sodium	mg/L	3.4	3.2	2.9
Strontium	mg/L	0.727	0.728	0.652
Thallium	mg/L	<0.00010	<0.00010	<0.00010
Tin	mg/L	<0.00010	<0.00010	<0.00010
Titanium	mg/L	<0.010	<0.010	<0.010
Uranium	mg/L	0.00152	0.00154	0.00140
Vanadium	mg/L	<0.0010	<0.0010	<0.0010
Zinc	mg/L	<0.0010	<0.0010	0.0011

Notes: Data analyzed by ALS Environmental, Vancouver.

RMO1 = Portal discharge pipe at the manhole sampling point

RMO2 = Water discharge through the french drain

RMO3 = 200m down slope from the french drain towards Wilkie Creek

Analytical Water Quality Results from 2005, MAX Molybdenum Project

Parameter	Units	A	B	C	D	E	F
		22-May-05	22-May-05	22-May-05	22-May-05	22-May-05	22-May-05
Physical Tests							
Conductivity	µS/cm	120	266	569	423	169	94.1
Total Dissolved Solids	mg/L	61	157	135	244	86	46
Hardness		64.8	141	119	210	86.5	43.8
pH	pH units	7.62	8.10	8.11	8.22	8.22	7.89
Total Suspended Solids	mg/L	<3.0	<3.0	<3.0	43.8	6.8	3.3
Turbidity	NTU	<0.10	2.99	1.47	23.6	3.78	0.71
Dissolved Anions							
Total Alkalinity	mg/L	64.1	96.3	91.6	136	85.3	44.4
Chloride	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Flouride	mg/L	0.023	0.084	0.079	0.152	0.030	0.151
Sulphate	mg/L	6.01	47.2	38.8	82.7	8.03	7.27
Nutrients							
Ammonia Nitrogen	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Nitrate Nitrogen	mg/L	<0.0050	0.0055	<0.0050	0.0391	0.251	0.218
Nitrite Nitrogen	mg/L	<0.0010	0.0018	0.0010	0.0064	<0.0010	0.0012
Total Phosphate	mg/L	<0.0020	0.0063	0.0029	0.0106	0.0061	0.0040
Total Metals							
Aluminum	mg/L	0.0066	0.0675	0.0399	0.871	0.160	0.0544
Antimony	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Arsenic	mg/L	<0.00050	0.00051	<0.00050	0.00436	<0.00050	<0.00050
Barium	mg/L	<0.020	<0.020	<0.020	0.057	<0.020	<0.020
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	mg/L	<0.000050	<0.000050	<0.000050	0.000116	<0.000050	<0.000050
Calcium	mg/L	16.8	42.3	35.9	63.2	26.0	14.5
Chromium	mg/L	<0.0010	<0.0010	<0.0010	0.0029	<0.0010	<0.0010
Cobalt	mg/L	<0.00030	<0.00030	<0.00030	0.00238	<0.00030	<0.00030
Copper	mg/L	<0.0010	<0.0010	<0.0010	0.0089	<0.0010	<0.0010
Iron	mg/L	0.047	0.320	0.255	3.23	0.221	0.110
Lead	mg/L	<0.00050	<0.00050	<0.00050	0.002490	<0.00050	<0.00050
Lithium	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Magnesium	mg/L	6.05	8.51	6.54	12.6	4.88	2.06
Manganese	mg/L	0.00060	0.104	0.0496	0.625	0.0154	0.00940
Mercury	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	mg/L	<0.0010	0.0764	0.0594	0.182	0.0015	0.0021
Nickel	mg/L	<0.0010	<0.0010	<0.0010	0.0027	<0.0010	<0.0010
Potassium	mg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Selenium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silver	mg/L	<0.000020	0.000029	<0.000020	0.000611	0.000034	<0.000020
Sodium	mg/L	<2.0	<2.0	<2.0	2.9	<2.0	<2.0
Thallium	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Tin	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Titanium	mg/L	<0.010	<0.010	<0.010	0.030	<0.010	<0.010
Uranium	mg/L	<0.00020	0.00095	0.00071	0.00245	0.00032	0.00030
Vanadium	mg/L	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	mg/L	<0.0050	<0.0050	<0.0050	0.0190	<0.0050	<0.0050
Dissolved Metals							
Aluminum	mg/L	<0.0050	0.0088	0.0081	<0.0050	0.0124	0.0186
Antimony	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Arsenic	mg/L	<0.00050	<0.00050	<0.00050	0.00051	<0.00050	<0.00050
Barium	mg/L	<0.020	<0.020	<0.020	0.037	<0.020	<0.020
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	mg/L	<0.000050	<0.000050	0.000090	0.000066	<0.000050	<0.000050
Calcium	mg/L	16.3	42.3	36.7	63.4	26.5	14.3
Chromium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cobalt	mg/L	<0.00030	<0.00030	<0.00030	0.00050	<0.00030	<0.00030
Copper	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Iron	mg/L	0.032	0.040	<0.030	<0.030	<0.030	0.043
Lead	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Lithium	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Magnesium	mg/L	5.89	8.55	6.62	12.7	4.94	1.98
Manganese	mg/L	<0.00030	0.0895	0.0419	0.460	0.00073	0.00640
Mercury	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Molybdenum	mg/L	<0.0010	0.0766	0.0590	0.154	0.0013	0.0022
Nickel	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Potassium	mg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Selenium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silver	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Sodium	mg/L	<2.0	<2.0	<2.0	2.7	<2.0	<2.0
Thallium	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Tin	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Titanium	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	mg/L	<0.00020	0.00095	0.00071	0.00196	0.00025	0.00029
Vanadium	mg/L	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Notes: Data analyzed by ALS Environmental, Vancouver.

Site A = In creek at NW end of proposed tailings facility

Site B = In tributary downgradient of proposed mine location

Site C = In creek at SE end of proposed tailings facility and seepage pond, below confluence with proposed mine site drainage

Site D = In tributary down gradient from portal settling pond

Site E = In tributary upstream of site access road above confluence with proposed mine site drainage

Site F = Wilkie Creek downstream of confluence with Wilkie Inlet D