APPENDIX B.2
PHASE II ICP-MS AND ICP-OES DATA

COLUMN 2

Dissolved Metals	(mg/L)	Week 15	Week 16	Week 16 DUP	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26
Aluminum	Al	0.117	<0.20	<0.20	<0.20	<0.20	<0.20	0.118	0.26	<0.20	<0.20	<0.20	0.103	<0.20
Antimony	Sb	0.00171	<0.20	<0.20	<0.20	<0.20	<0.20	0.00161	<0.20	<0.20	<0.20	<0.20	0.00134	<0.20
Arsenic	As	0.00106	<0.20	<0.20	<0.20	<0.20	<0.20	0.00123	<0.20	<0.20	<0.20	<0.20	0.00155	<0.20
Barium	Ba	0.000823	<0.010	<0.010	<0.010	<0.010	<0.010	0.00107	<0.010	<0.010	<0.010	<0.010	0.000837	<0.010
Beryllium	Be	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00050	<0.0050
Bismuth	Bi	<0.00050	<0.20	<0.20	<0.20	<0.20	<0.20	<0.00050	<0.20	<0.20	<0.20	<0.20	<0.00050	<0.20
Boron	B	0.098	0.12	0.10	<0.10	<0.10	<0.10	0.089	<0.10	0.12	<0.10	<0.10	0.061	<0.10
Cadmium	Cd	<0.000050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.000050	<0.010	<0.010	<0.010	<0.010	0.000050	<0.010
Calcium	Ca	11.5	13.0	12.1	12.0	11.6	12.6	15.9	14.7	16.2	8.58	15.6	12.8	14.5
Chromium	Cr	<0.00050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.00050	<0.010	<0.010	<0.010	<0.010	<0.00050	<0.010
Cobalt	Co	<0.00010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.00010	<0.010	<0.010	<0.010	<0.010	<0.00010	<0.010
Copper	Cu	0.00071	<0.010	<0.010	<0.010	<0.010	<0.010	0.00254	0.014	<0.010	<0.010	<0.010	0.00017	<0.010
Iron	Fe	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Lead	Pb	<0.000050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.000050	<0.050	<0.050	<0.050	<0.050	<0.000050	<0.050
Lithium	Li	0.0057	<0.010	<0.010	<0.010	<0.010	<0.010	0.0055	<0.010	0.014	<0.010	<0.010	<0.0050	<0.010
Magnesium	Mg	3.31	3.64	3.39	3.19	2.93	2.54	3.64	3.39	3.31	3.23	2.85	2.18	2.44
Manganese	Mn	0.00587	0.0091	0.0077	0.0078	0.0076	0.0078	0.00719	0.0107	0.0070	0.0067	0.0073	0.00827	0.0065
Mercury	Hg	<0.000050						<0.000050					<0.000050	
Molybdenum	Mo	0.00984	<0.030	<0.030	<0.030	<0.030	<0.030	0.00630	<0.030	<0.030	<0.030	<0.030	0.00579	<0.030
Nickel	Ni	0.00089	<0.050	<0.050	<0.050	<0.050	<0.050	0.00106	<0.050	<0.050	<0.050	<0.050	0.00081	<0.050
Phosphorous	P	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Potassium	K	2.2	2.6	2.5	2.0	<2.0	<2.0	2.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Selenium	Se	<0.0010	<0.20	<0.20	<0.20	<0.20	<0.20	<0.0010	<0.20	<0.20	<0.20	<0.20	<0.0010	<0.20
Silicon	Si	1.30	1.44	1.31	1.27	1.28	1.39	1.42	1.44	1.48	1.30	1.34	1.23	1.26
Silver	Ag	<0.000010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.000010	<0.010	<0.010	<0.010	<0.010	<0.000010	<0.010
Sodium	Na	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Strontium	Sr	0.106	0.139	0.131	0.125	0.116	0.118	0.132	0.144	0.145	0.149	0.138	0.0924	0.119
Thallium	Tl	<0.00010	<0.20	<0.20	<0.20	<0.20	<0.20	<0.00010	<0.50	<0.20	<0.20	<0.20	<0.00010	<0.20
Tin	Sn	<0.00010	<0.030	<0.030	<0.030	<0.030	<0.030	<0.00010	<0.030	<0.030	<0.030	<0.030	<0.00010	<0.030
Titanium	Ti	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	U	0.000341						0.000448					0.000168	
Vanadium	V	<0.0010	<0.030	<0.030	<0.030	<0.030	<0.030	<0.0010	<0.030	<0.030	<0.030	<0.030	<0.0010	<0.030
Zinc	Zn	<0.0010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0015	<0.0050	<0.0050	<0.0050	<0.0050	0.0012	<0.0050
Dissolved Anions	**(mg/L)**													
Chloride	Cl	<0.50						<0.50					<0.50	
Fluoride	F	0.022						<0.020					<0.020	
Nutrients	**(mg/L)**													
Ammonia	N	<0.020						<0.020					<0.020	
Nitrite/Nitrate	N	0.0310						0.0054					0.0050	
Total Dissolved Solids	(mg/L)	<57						88					45	

Note: Detection limits are mg/L unl
Column 2

APPENDIX B.2
PHASE II ICP-MS AND ICP-OES DATA

COLUMN 3

Dissolved Metals	**(mg/L)**	Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 5 DUP	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15
Aluminum	Al	0.0114	0.0110	<0.20	0.0078	<0.20	0.0072		<0.20	<0.20	<0.20	<0.20	0.0098	<0.20	<0.20	<0.20	<0.20	0.0066
Antimony	Sb	0.00148	0.00098	<0.20	0.00054	<0.20	0.00042		<0.20	<0.20	<0.20	<0.20	0.00027	<0.20	<0.20	<0.20	<0.20	0.00018
Arsenic	As	0.00268	0.00186	<0.20	0.00084	<0.20	0.00058		<0.20	<0.20	<0.20	0.76	0.00088	<0.20	<0.20	<0.20	<0.20	0.00033
Barium	Ba	0.00245	0.00201	<0.010	0.00491	<0.010	0.00460		<0.010	<0.010	<0.010	<0.010	0.00489	<0.010	<0.010	<0.010	<0.010	0.00564
Beryllium	Be	<0.00050	<0.00050	<0.0050	<0.00050	<0.0050	<0.00050		0.0061	<0.0050	<0.0050	0.0248	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00050
Bismuth	Bi	<0.00050	<0.00050	<0.20	<0.00050	<0.20	<0.00050		<0.20	<0.20	<0.20	<0.20	<0.00050	<0.20	<0.20	<0.20	<0.20	<0.00050
Boron	B	1.17	0.814	0.94	0.406	0.49	0.252		0.26	0.28	0.20	0.20	0.168	0.18	0.15	0.16	0.13	0.121
Cadmium	Cd	<0.000050	<0.000050	<0.010	<0.000050	<0.010	<0.000050		<0.010	<0.010	<0.010	<0.010	<0.000050	<0.010	<0.010	<0.010	<0.010	<0.000050
Calcium	Ca	2.30	2.48	2.90	3.58	4.83	4.15		4.36	4.34	4.62	4.37	4.07	4.37	4.56	4.62	4.59	4.70
Chromium	Cr	0.00061	<0.00050	<0.010	<0.00050	<0.010	<0.00050		<0.010	<0.010	<0.010	<0.010	<0.00050	<0.010	<0.010	<0.010	<0.010	<0.00050
Cobalt	Co	<0.00010	<0.00010	<0.010	<0.00010	<0.010	<0.00010		<0.010	<0.010	<0.010	0.024	0.00013	<0.010	<0.010	<0.010	<0.010	<0.00010
Copper	Cu	0.00302	0.00229	<0.010	0.00090	<0.010	0.00130		<0.010	<0.010	<0.010	0.011	0.00165	<0.010	<0.010	<0.010	<0.010	0.00263
Iron	Fe	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030		<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Lead	Pb	0.000075	0.000086	<0.050	<0.000050	<0.050	<0.000050		<0.050	<0.050	<0.050	<0.050	0.000095	<0.050	<0.050	<0.050	<0.050	<0.000050
Lithium	Li	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050		<0.010	<0.010	<0.010	0.015	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.0050
Magnesium	Mg	6.68	6.19	8.80	7.64	9.65	6.38		6.23	6.35	6.08	5.47	4.70	5.23	4.96	5.14	4.67	4.73
Manganese	Mn	0.000761	0.000450	<0.0050	0.000580	<0.0050	0.000478		<0.0050	<0.0050	<0.0050	<0.0050	0.00193	<0.0050	<0.0050	<0.0050	<0.0050	0.000159
Mercury	Hg	<0.000050	<0.000050		<0.000050		<0.000050						<0.000050					<0.000050
Molybdenum	Mo	0.00269	0.00144	<0.030	0.000203	<0.030	0.000477		<0.030	<0.030	<0.030	<0.030	0.000193	<0.030	<0.030	<0.030	<0.030	0.000112
Nickel	Ni	0.00180	0.00093	<0.050	0.00086	<0.050	0.00085		<0.050	<0.050	<0.050	<0.050	0.00060	<0.050	<0.050	<0.050	<0.050	0.00057
Phosphorous	P	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Potassium	K	19.7	19.5	27.5	21.7	26.1	15.3		16.7	17.0	15.4	15.2	11.3	11.4	10.6	11.8	11.0	10.2
Selenium	Se	<0.0010	<0.0010	<0.20	<0.0010	<0.20	<0.0010		<0.20	<0.20	<0.20	<0.20	<0.0010	<0.20	<0.20	<0.20	<0.20	<0.0010
Silicon	Si	4.11	3.87	6.59	4.67	5.44	3.85		3.84	3.55	3.45	2.86	2.54	2.80	2.62	2.65	2.51	2.42
Silver	Ag	0.000143	0.000049	<0.010	<0.000010	<0.010	<0.000010		<0.010	<0.010	<0.010	<0.020	0.000212	<0.010	<0.010	<0.010	<0.010	<0.000010
Sodium	Na	51.7	30.2	23.7	10.2	11.1	6.1		5.5	6.0	4.7	4.2	3.4	3.6	2.8	3.1	2.7	2.5
Strontium	Sr	0.0118	0.0112	0.0133	0.0162	0.0224	0.0175		0.0177	0.0164	0.0149	0.0147	0.0139	0.0160	0.0174	0.0157	0.0159	0.0139
Thallium	Tl	<0.00010	<0.00010	<0.20	<0.00010	<0.20	<0.00010		<0.20	<0.20	<0.20	<0.20	<0.00010	<0.20	<0.20	<0.20	<0.20	<0.00010
Tin	Sn	0.00018	0.00011	<0.030	<0.00010	<0.030	<0.00010		<0.030	<0.030	<0.030	<0.030	<0.00010	<0.030	<0.030	<0.030	<0.030	<0.00010
Titanium	Ti	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	U	<0.000010	<0.000010		<0.000010		<0.000010						0.000011					<0.000010
Vanadium	V	<0.0020	0.0012	<0.030	<0.0010	<0.030	<0.0010		<0.030	<0.030	<0.030	<0.040	<0.0010	<0.030	<0.030	<0.030	<0.030	<0.0010
Zinc	Zn	0.0019	0.0031	<0.0050	0.0019	<0.0050	<0.0010		<0.0050	<0.0050	<0.0050	0.0103	<0.0010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010
Dissolved Anions	**(mg/L)**																	
Chloride	Cl	43.5	16.8		3.46		2.00	2.00					2.21					<0.50
Fluoride	F	<0.020	0.024		<0.020		<0.020	<0.020					<0.020					<0.020
Nutrients	**(mg/L)**																	
Ammonia	N	0.294	<0.020		<0.020		<0.020						<0.020					<0.020
Nitrite/Nitrate	N	0.184	<0.050		<0.050		0.066						<0.050					0.0105
Total Dissolved Solids	(mg/L)	183	122		82		120						<40					81

Note: Detection limits are mg/L unless specified otherwise...
Column 3

APPENDIX B.2
PHASE II ICP-MS AND ICP-OES DATA

COLUMN 3

Dissolved Metals	**(mg/L)**	Week 16	Week 17	Week 18	Week 18 DUP	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26	Week 26 DUP
Aluminum	Al	<0.20	<0.20	<0.20	<0.20	<0.20	0.0093	<0.20	<0.20	<0.20	<0.20	0.0102	<0.20	<0.20
Antimony	Sb	<0.20	<0.20	<0.20	<0.20	<0.20	0.00051	<0.20	<0.20	<0.20	<0.20	0.00023	<0.20	<0.20
Arsenic	As	<0.20	<0.20	<0.20	<0.20	<0.20	0.00040	<0.20	<0.20	<0.20	<0.20	0.00038	<0.20	<0.20
Barium	Ba	<0.010	<0.010	<0.010	<0.010	<0.010	0.00656	<0.010	<0.010	<0.010	<0.010	0.00648	<0.010	<0.010
Beryllium	Be	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00050	<0.0050	<0.0050
Bismuth	Bi	<0.20	<0.20	<0.20	<0.20	<0.20	<0.00050	<0.20	<0.20	<0.20	<0.20	<0.00050	<0.20	<0.20
Boron	B	0.15	0.12	0.12	0.12	0.16	0.167	0.19	0.19	0.16	0.17	0.145	0.14	0.15
Cadmium	Cd	<0.010	<0.010	<0.010	<0.010	<0.010	<0.000050	<0.010	<0.010	<0.010	<0.010	<0.000050	<0.010	<0.010
Calcium	Ca	5.09	4.67	4.52	4.48	4.19	4.65	4.67	5.33	4.67	5.18	4.73	4.95	5.10
Chromium	Cr	<0.010	<0.010	<0.010	<0.010	<0.010	<0.00050	<0.010	<0.010	<0.010	<0.010	<0.00050	<0.010	<0.010
Cobalt	Co	<0.010	<0.010	<0.010	<0.010	<0.010	<0.00010	<0.010	<0.010	<0.010	<0.010	<0.00010	<0.010	<0.010
Copper	Cu	<0.010	<0.010	<0.010	<0.010	<0.010	0.00108	<0.010	<0.010	<0.010	<0.010	0.00022	<0.010	<0.010
Iron	Fe	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Lead	Pb	<0.050	<0.050	<0.050	<0.050	<0.050	<0.000050	<0.050	<0.050	<0.050	<0.050	<0.000050	<0.050	<0.050
Lithium	Li	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.010	0.015	<0.010	<0.010	<0.0050	<0.010	<0.010
Magnesium	Mg	4.94	4.49	4.40	4.53	3.94	5.09	4.81	5.02	4.74	4.89	4.29	4.58	4.73
Manganese	Mn	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.000928	<0.0050	<0.0050	<0.0050	<0.0050	0.000325	<0.0050	<0.0050
Mercury	Hg						<0.000050					0.000098		
Molybdenum	Mo	<0.030	<0.030	<0.030	<0.030	<0.030	0.000122	<0.030	<0.030	<0.030	<0.030	0.000112	<0.030	<0.030
Nickel	Ni	<0.050	<0.050	<0.050	<0.050	<0.050	0.00074	<0.050	<0.050	<0.050	<0.050	<0.00050	<0.050	<0.050
Phosphorous	P	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Potassium	K	11.5	10.4	9.3	9.5	9.7	11.4	9.3	9.8	9.2	10.1	8.6	9.2	9.6
Selenium	Se	<0.20	<0.20	<0.20	<0.20	<0.20	<0.0010	<0.20	<0.20	<0.20	<0.20	<0.0010	<0.20	<0.20
Silicon	Si	2.74	2.41	2.40	2.39	2.57	2.83	2.84	2.86	2.55	2.65	2.48	2.51	2.61
Silver	Ag	<0.010	<0.010	<0.010	<0.010	<0.010	<0.000010	<0.010	<0.010	<0.010	<0.010	<0.000010	<0.010	<0.010
Sodium	Na	2.6	2.3	2.4	2.4	3.7	4.3	4.6	3.4	3.2	3.0	2.7	2.6	2.7
Strontium	Sr	0.0172	0.0164	0.0153	0.0156	0.0141	0.0132	0.0145	0.0151	0.0174	0.0150	0.0125	0.0134	0.0139
Thallium	Tl	<0.20	<0.20	<0.20	<0.20	<0.20	<0.00010	<0.50	<0.20	<0.20	<0.20	<0.00010	<0.20	<0.20
Tin	Sn	<0.030	<0.030	<0.030	<0.030	<0.030	<0.00010	<0.030	<0.030	<0.030	<0.030	<0.00010	<0.030	<0.030
Titanium	Ti	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	U						<0.000010					<0.000010		
Vanadium	V	<0.030	<0.030	<0.030	<0.030	<0.030	<0.0010	<0.030	<0.030	<0.030	<0.030	<0.0010	<0.030	<0.030
Zinc	Zn	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0050	<0.0050
Dissolved Anions	**(mg/L)**													
Chloride	Cl						2.85					1.58		
Fluoride	F						<0.020					<0.020		
Nutrients	**(mg/L)**													
Ammonia	N						<0.020					<0.020		
Nitrite/Nitrate	N						<0.0050					<0.0050		
Total Dissolved Solids	(mg/L)						55					<40		

Note: Detection limits are mg/L unl
Column 3

APPENDIX B.2
PHASE II ICP-MS AND ICP-OES DATA

COLUMN 4

Dissolved Metals	(mg/L)	Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 5 DUP	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Aluminum	Al	0.0379	0.217	<0.20	0.0194	<0.20	0.0115		<0.20	<0.20	<0.20	<0.20	0.0028	<0.20	<0.20	<0.20	<0.20
Antimony	Sb	0.00402	0.00635	<0.20	0.00322	<0.20	0.00208		<0.20	<0.20	<0.20	<0.20	0.00067	<0.20	<0.20	<0.20	<0.20
Arsenic	As	0.00574	0.0135	<0.20	0.00658	<0.20	0.00595		<0.20	<0.20	<0.20	<0.20	0.00288	<0.20	<0.20	<0.20	<0.20
Barium	Ba	0.0114	0.00410	<0.010	0.00464	<0.010	0.00358		<0.010	<0.010	<0.010	<0.010	0.00574	<0.010	<0.010	<0.010	<0.010
Beryllium	Be	<0.00050	<0.00050	<0.0050	<0.00050	<0.0050	<0.00050		<0.0050	<0.0050	<0.0050	<0.0050	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050
Bismuth	Bi	<0.00050	<0.00050	<0.20	<0.00050	<0.20	<0.00050		<0.20	<0.20	<0.20	<0.20	<0.00050	<0.20	<0.20	<0.20	<0.20
Boron	B	0.729	0.771	0.60	0.463	0.44	0.278		0.24	0.25	0.25	0.21	0.220	0.24	0.19	0.19	0.19
Cadmium	Cd	0.000196	0.000057	<0.010	0.000086	<0.010	0.000101		<0.010	<0.010	<0.010	<0.010	0.000979	<0.010	<0.010	<0.010	<0.010
Calcium	Ca	28.5	8.16	5.49	15.5	9.45	11.0		13.6	13.7	11.3	13.1	12.6	12.4	12.2	12.0	12.3
Chromium	Cr	<0.00050	<0.00050	<0.010	<0.00050	<0.010	<0.00050		<0.010	<0.010	<0.010	<0.010	<0.00050	<0.010	<0.010	<0.010	<0.010
Cobalt	Co	0.00204	0.00026	<0.010	0.00226	<0.010	0.00441		<0.010	0.013	0.019	0.045	0.0434	0.063	0.074	0.103	0.131
Copper	Cu	0.0127	0.00784	<0.010	0.00274	<0.010	0.0103		<0.010	<0.010	0.012	0.040	0.0288	0.050	0.081	0.166	0.337
Iron	Fe	<0.030	0.035	<0.030	<0.030	<0.030	<0.030		<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Lead	Pb	0.000075	0.000217	<0.050	0.000101	<0.050	0.000095		<0.050	<0.050	<0.050	<0.050	0.000263	<0.050	<0.050	<0.050	<0.050
Lithium	Li	0.0467	0.0165	0.028	0.0419	0.034	0.0327		0.034	0.030	0.021	0.026	0.0208	0.017	0.020	0.017	0.016
Magnesium	Mg	13.6	4.38	3.44	9.02	5.77	6.66		8.25	8.51	7.24	8.69	8.50	9.29	9.23	9.15	8.83
Manganese	Mn	0.0557	0.00844	0.0117	0.0486	0.0398	0.0594		0.101	0.140	0.155	0.240	0.215	0.278	0.297	0.355	0.431
Mercury	Hg	<0.000050	<0.000050		<0.000050		<0.000050						<0.000050				
Molybdenum	Mo	0.0218	0.00893	<0.030	0.00292	<0.030	0.00126		<0.030	<0.030	<0.030	<0.030	0.000350	<0.030	<0.030	<0.030	<0.030
Nickel	Ni	0.0497	0.00311	<0.050	0.0171	<0.050	0.0247		0.053	<0.050	0.082	0.168	0.169	0.257	0.318	0.437	0.601
Phosphorous	P	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Potassium	K	32.6	12.3	13.1	15.3	13.4	11.6		11.3	11.7	10.7	9.6	7.7	7.4	7.4	7.5	7.5
Selenium	Se	0.0029	0.0022	<0.20	0.0016	<0.20	0.0010		<0.20	<0.20	<0.20	<0.20	<0.0010	<0.20	<0.20	<0.20	<0.20
Silicon	Si	1.90	2.46	2.91	3.16	3.82	3.54		3.76	3.71	3.77	3.78	3.65	4.31	4.15	4.14	4.43
Silver	Ag	0.000026	0.000015	<0.010	<0.000010	<0.010	<0.000010		<0.010	<0.010	<0.010	<0.010	0.000083	<0.010	<0.010	<0.010	<0.010
Sodium	Na	126	76.6	43.4	33.5	21.2	15.2		12.4	10.7	7.7	7.1	6.0	5.5	4.1	3.8	3.3
Strontium	Sr	0.683	0.207	0.152	0.330	0.225	0.299		0.315	0.348	0.300	0.339	0.310	0.310	0.342	0.305	0.349
Thallium	Tl	0.00022	<0.00010	<0.20	0.00012	<0.20	0.00012		<0.20	<0.20	<0.20	<0.20	0.00011	<0.20	<0.20	<0.20	<0.20
Tin	Sn	<0.00010	<0.00010	<0.030	<0.00010	<0.030	0.00012		<0.030	<0.030	<0.030	<0.030	<0.00010	<0.030	<0.030	<0.030	<0.030
Titanium	Ti	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	U	0.000284	0.000383		0.000106		0.000033						0.000011				
Vanadium	V	<0.0010	0.0011	<0.030	<0.0010	<0.030	<0.0010		<0.030	<0.030	<0.030	<0.030	<0.0010	<0.030	<0.030	<0.030	<0.030
Zinc	Zn	0.0068	0.0030	<0.0050	0.0031	<0.0050	0.0048		0.0090	0.0146	0.0235	0.0576	0.0583	0.0900	0.124	0.223	0.335
Dissolved Anions	**(mg/L)**																
Chloride	Cl	2.61	3.44		0.63		<0.50						0.61				
Fluoride	F	0.520	0.613		0.231		0.109						0.163				
Nutrients	**(mg/L)**																
Ammonia	N	0.612	0.148		0.148		0.069	0.067					0.029				
Nitrite/Nitrate	N	0.173	0.086		<0.050		<0.050	0.074					<0.050				
Total Dissolved Solids	(mg/L)	342	338		220		183						54				

Note: Detection limits are mg/L unless specified otherwise...
Column 4

APPENDIX B.2
PHASE II ICP-MS AND ICP-OES DATA

COLUMN 4

Dissolved Metals	(mg/L)	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 20 DUP	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26
Aluminum	Al	0.0193	<0.20	<0.20	<0.20	<0.20	0.174	0.158	0.28	0.59	0.61	0.94	0.626	1.16
Antimony	Sb	0.00043	<0.20	<0.20	<0.20	<0.20	0.00044	0.00042	<0.20	<0.20	<0.20	<0.20	0.00014	<0.20
Arsenic	As	0.00132	<0.20	<0.20	<0.20	<0.20	0.00189	0.00182	<0.20	<0.20	<0.20	<0.20	0.00129	<0.20
Barium	Ba	0.0105	0.012	0.014	0.016	0.020	0.0276	0.0270	0.045	0.050	0.057	0.067	0.0459	0.067
Beryllium	Be	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00050	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050	0.00122	<0.0050
Bismuth	Bi	<0.00050	<0.20	<0.20	<0.20	<0.20	<0.00050	<0.00050	<0.20	<0.20	<0.20	<0.20	<0.00050	<0.20
Boron	B	0.158	0.13	<0.10	<0.10	<0.10	0.149	0.154	0.16	0.16	0.13	0.12	0.076	0.13
Cadmium	Cd	0.00554	<0.010	<0.010	<0.010	<0.010	0.0132	0.0136	0.017	0.018	0.015	0.017	0.0110	0.016
Calcium	Ca	11.9	10.5	8.27	7.39	7.28	12.4	11.3	11.8	11.7	9.58	10.8	6.15	8.80
Chromium	Cr	<0.00050	<0.010	<0.010	<0.010	<0.010	<0.00050	<0.00050	<0.010	<0.010	<0.010	<0.010	<0.00050	<0.010
Cobalt	Co	0.149	0.163	0.164	0.178	0.188	0.272	0.263	0.297	0.326	0.293	0.322	0.186	0.333
Copper	Cu	0.539	0.856	1.23	1.68	2.32	2.87	2.80	4.08	5.50	5.76	6.91	4.78	7.17
Iron	Fe	<0.030	0.033	0.046	0.081	0.094	0.419	0.377	0.973	2.14	3.11	4.58	3.84	6.74
Lead	Pb	0.00106	<0.050	<0.050	<0.050	<0.050	0.00627	0.00622	<0.050	<0.050	<0.050	<0.050	0.0260	<0.050
Lithium	Li	0.0193	0.022	0.018	0.013	0.013	0.0179	0.0181	0.020	0.029	0.016	0.020	0.0143	0.019
Magnesium	Mg	8.77	7.75	6.28	5.67	5.25	9.91	8.93	9.43	9.06	8.95	9.20	5.76	8.38
Manganese	Mn	0.414	0.442	0.382	0.383	0.388	0.558	0.537	0.602	0.616	0.572	0.591	0.288	0.551
Mercury	Hg	<0.000050					<0.000050	<0.000050					<0.000050	
Molybdenum	Mo	0.000138	<0.030	<0.030	<0.030	<0.030	<0.000050	<0.000050	<0.030	<0.030	<0.030	<0.030	<0.000050	<0.030
Nickel	Ni	0.654	0.795	0.794	0.867	0.970	1.49	1.44	1.90	2.24	2.25	2.39	1.43	2.57
Phosphorous	P	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Potassium	K	7.3	8.6	7.4	6.4	7.0	8.9	8.2	7.2	7.3	6.9	7.5	5.6	6.9
Selenium	Se	0.0010	<0.20	<0.20	<0.20	<0.20	0.0025	0.0022	<0.20	<0.20	<0.20	<0.20	0.0072	<0.20
Silicon	Si	4.30	4.16	3.61	3.55	3.88	5.57	5.10	5.44	5.56	5.11	4.98	3.47	5.55
Silver	Ag	<0.000010	<0.010	<0.010	<0.010	<0.010	<0.000010	<0.000010	<0.010	<0.010	<0.010	<0.010	0.000019	<0.010
Sodium	Na	3.0	2.3	<2.0	<2.0	<2.0	2.8	2.6	3.5	2.0	<2.0	<2.0	<2.0	<2.0
Strontium	Sr	0.337	0.325	0.274	0.254	0.248	0.348	0.355	0.379	0.345	0.280	0.316	0.163	0.253
Thallium	Tl	0.00012	<0.20	<0.20	<0.20	<0.20	0.00018	0.00018	<0.50	<0.20	<0.20	<0.20	0.00020	<0.20
Tin	Sn	<0.00010	<0.030	<0.030	<0.030	<0.030	<0.00010	<0.00010	<0.030	<0.030	<0.030	<0.030	<0.00010	<0.030
Titanium	Ti	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	U	0.000032					0.000267	0.000267					0.00257	
Vanadium	V	<0.0010	<0.030	<0.030	<0.030	<0.030	<0.0010	<0.0010	<0.030	<0.030	<0.030	<0.030	<0.0010	<0.030
Zinc	Zn	0.452	0.519	0.580	0.636	0.697	1.05	1.02	1.25	1.38	1.29	1.37	0.821	1.39
Dissolved Anions	**(mg/L)**													
Chloride	Cl	<0.50					<0.50						<0.50	
Fluoride	F	0.154					0.207						0.376	
Nutrients	**(mg/L)**													
Ammonia	N	<0.020					<0.020						<0.020	
Nitrite/Nitrate	N	<0.0050					<0.0050						0.0110	
Total Dissolved Solids	(mg/L)	119					151						88	

Note: Detection limits are mg/L unl
Column 4

APPENDIX B.2
PHASE II ICP-MS AND ICP-OES DATA

COLUMN 5

Dissolved Metals	(mg/L)	Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 6 DUP	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Aluminum	Al	0.0049	0.0056	<0.20	0.0045	<0.20	0.0050	<0.20	<0.20	<0.20	<0.20	<0.20	0.0046	<0.20	<0.20	<0.20	<0.20
Antimony	Sb	0.00147	0.00178	<0.20	0.00107	<0.20	0.00084	<0.20	<0.20	<0.20	<0.20	<0.20	0.00043	<0.20	<0.20	<0.20	<0.20
Arsenic	As	0.00295	0.00178	<0.20	0.00063	<0.20	0.00056	<0.20	<0.20	<0.20	<0.20	<0.20	0.00048	<0.20	<0.20	<0.20	<0.20
Barium	Ba	0.00264	0.00146	<0.010	0.00159	<0.010	0.00202	<0.010	<0.010	<0.010	<0.010	<0.010	0.00241	<0.010	<0.010	<0.010	<0.010
Beryllium	Be	<0.00050	<0.00050	<0.0050	<0.00050	<0.0050	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050
Bismuth	Bi	<0.00050	<0.00050	<0.20	<0.00050	<0.20	<0.00050	<0.20	<0.20	<0.20	<0.20	<0.20	<0.00050	<0.20	<0.20	<0.20	<0.20
Boron	B	1.16	0.828	0.58	0.372	0.35	0.252	0.24	0.25	0.23	0.20	0.16	0.141	0.14	0.12	0.11	0.11
Cadmium	Cd	<0.000050	<0.000050	<0.010	<0.000050	<0.010	<0.000050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.000050	<0.010	<0.010	<0.010	<0.010
Calcium	Ca	8.46	4.03	4.70	5.40	6.28	6.13	7.73	7.80	9.23	7.84	7.44	7.01	7.16	7.14	6.51	6.95
Chromium	Cr	<0.00050	0.00169	<0.010	<0.00050	<0.010	0.00130	<0.010	<0.010	<0.010	<0.010	<0.010	<0.00050	<0.010	<0.010	<0.010	<0.010
Cobalt	Co	0.00030	<0.00010	<0.010	<0.00010	<0.010	<0.00010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.00010	<0.010	<0.010	<0.010	<0.010
Copper	Cu	0.00592	0.00698	<0.010	0.00152	<0.010	0.00425	<0.010	<0.010	<0.010	<0.010	<0.010	0.00192	<0.010	<0.010	<0.010	<0.010
Iron	Fe	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Lead	Pb	0.000162	<0.000050	<0.050	<0.000050	<0.050	<0.000050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.000050	<0.050	<0.050	<0.050	<0.050
Lithium	Li	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.010
Magnesium	Mg	13.2	5.72	6.33	6.27	7.03	6.85	7.99	8.21	9.81	7.73	7.13	6.43	6.77	6.49	5.79	5.68
Manganese	Mn	0.00126	0.000669	<0.0050	0.000816	<0.0050	0.00110	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.00154	<0.0050	<0.0050	<0.0050	<0.0050
Mercury	Hg	<0.000050	<0.000050		<0.000050		<0.000050						0.000051				
Molybdenum	Mo	0.00128	0.000655	<0.030	0.000231	<0.030	0.000157	<0.030	<0.030	<0.030	<0.030	<0.030	0.000064	<0.030	<0.030	<0.030	<0.030
Nickel	Ni	0.00613	0.00220	<0.050	0.00200	<0.050	0.00254	<0.050	<0.050	<0.050	<0.050	<0.050	0.00452	<0.050	<0.050	<0.050	<0.050
Phosphorous	P	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Potassium	K	9.0	9.1	8.2	6.5	7.2	6.0	7.4	7.6	7.6	6.3	6.3	4.9	4.8	4.7	4.5	4.6
Selenium	Se	0.0023	0.0013	<0.20	<0.0010	<0.20	<0.0010	<0.20	<0.20	<0.20	<0.20	<0.20	<0.0010	<0.20	<0.20	<0.20	<0.20
Silicon	Si	6.72	6.22	5.19	3.48	4.25	3.37	3.20	3.25	3.15	2.99	2.73	2.19	2.29	2.33	2.02	2.06
Silver	Ag	0.000110	0.000029	<0.010	0.000016	<0.010	<0.000010	<0.010	<0.010	<0.010	<0.010	<0.010	0.000114	<0.010	<0.010	<0.010	<0.010
Sodium	Na	76.3	42.8	25.0	15.7	12.8	9.6	8.7	9.2	8.6	6.1	5.0	3.8	3.8	2.9	2.7	2.7
Strontium	Sr	0.169	0.0794	0.0974	0.0901	0.109	0.124	0.131	0.133	0.150	0.119	0.109	0.0970	0.0997	0.103	0.0831	0.0893
Thallium	Tl	<0.00010	<0.00010	<0.20	<0.00010	<0.20	<0.00010	<0.20	<0.20	<0.20	<0.20	<0.20	<0.00010	<0.20	<0.20	<0.20	<0.20
Tin	Sn	0.00016	0.00011	<0.030	<0.00010	<0.030	<0.00010	<0.030	<0.030	<0.030	<0.030	<0.030	<0.00010	<0.030	<0.030	<0.030	<0.030
Titanium	Ti	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	U	0.000011	<0.000010		<0.000010		<0.000010						<0.000010				
Vanadium	V	0.0022	0.0020	<0.030	<0.0010	<0.030	<0.0010	<0.030	<0.030	<0.030	<0.030	<0.030	<0.0010	<0.030	<0.030	<0.030	<0.030
Zinc	Zn	0.0018	0.0017	<0.0050	<0.0010	<0.0050	<0.0010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0050	<0.0050	<0.0050	<0.0050
Dissolved Anions	**(mg/L)**																
Chloride	Cl	3.48	2.43		0.55		<0.50						<0.50				
Fluoride	F	0.062	0.053		<0.020		<0.020						<0.020				
Nutrients	**(mg/L)**																
Ammonia	N	0.218	0.036		0.041		<0.020						0.022				
Nitrite/Nitrate	N	0.107	0.054		<0.050		<0.050						<0.050				
Total Dissolved Solids	(mg/L)	198	192		88		133						<40				

Note: Detection limits are mg/L unless specified otherwise...
Column 5

APPENDIX B.2
PHASE II ICP-MS AND ICP-OES DATA

COLUMN 5

Dissolved Metals	(mg/L)	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 20 DUP	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26
Aluminum	Al	0.0343	<0.20	<0.20	<0.20	<0.20	0.0098		<0.20	<0.20	<0.20	<0.20	0.0057	<0.20
Antimony	Sb	0.00054	<0.20	<0.20	<0.20	<0.20	0.00033		<0.20	<0.20	<0.20	<0.20	0.00029	<0.20
Arsenic	As	0.00017	<0.20	<0.20	<0.20	<0.20	0.00017		<0.20	<0.20	<0.20	<0.20	0.00019	<0.20
Barium	Ba	0.00256	<0.010	<0.010	<0.010	<0.010	0.00462		<0.010	<0.010	<0.010	<0.010	0.00271	<0.010
Beryllium	Be	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00050		<0.0050	<0.0050	<0.0050	<0.0050	<0.00050	<0.0050
Bismuth	Bi	<0.00050	<0.20	<0.20	<0.20	<0.20	<0.00050		<0.20	<0.20	<0.20	<0.20	<0.00050	<0.20
Boron	B	0.116	0.13	<0.10	<0.10	0.10	0.114		0.14	0.15	<0.10	0.12	0.089	0.12
Cadmium	Cd	<0.000050	<0.010	<0.010	<0.010	<0.010	<0.000050		<0.010	<0.010	<0.010	<0.010	<0.000050	<0.010
Calcium	Ca	7.34	7.08	6.97	7.13	6.91	10.3		11.5	13.6	8.00	13.9	8.35	13.3
Chromium	Cr	<0.00050	<0.010	<0.010	<0.010	<0.010	<0.00050		<0.010	<0.010	<0.010	<0.010	<0.00050	<0.010
Cobalt	Co	0.00011	<0.010	<0.010	<0.010	<0.010	0.00013		<0.010	<0.010	<0.010	<0.010	0.00018	<0.010
Copper	Cu	0.00448	<0.010	<0.010	<0.010	<0.010	0.00551		0.012	<0.010	0.023	<0.010	0.00376	<0.010
Iron	Fe	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030		<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Lead	Pb	<0.000050	<0.050	<0.050	<0.050	<0.050	0.000115		<0.050	<0.050	<0.050	<0.050	<0.000050	<0.050
Lithium	Li	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.0050		<0.010	0.012	<0.010	<0.010	<0.0050	<0.010
Magnesium	Mg	6.12	5.75	5.80	6.16	4.99	8.25		8.80	9.59	6.23	8.77	5.32	8.39
Manganese	Mn	0.00192	<0.0050	<0.0050	<0.0050	<0.0050	0.00254		<0.0050	<0.0050	0.0053	<0.0050	0.00251	<0.0050
Mercury	Hg	0.000940					0.00164						0.000657	
Molybdenum	Mo	0.000094	<0.030	<0.030	<0.030	<0.030	<0.000050		<0.030	<0.030	<0.030	<0.030	0.000053	<0.030
Nickel	Ni	0.00431	<0.050	<0.050	<0.050	<0.050	0.00472		<0.050	<0.050	<0.050	<0.050	0.00843	<0.050
Phosphorous	P	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Potassium	K	3.9	4.8	4.2	4.0	4.0	5.1		4.4	4.5	4.0	4.6	3.4	4.6
Selenium	Se	<0.0010	<0.20	<0.20	<0.20	<0.20	<0.0010		<0.20	<0.20	<0.20	<0.20	<0.0010	<0.20
Silicon	Si	1.84	2.24	1.77	1.79	1.98	2.11		1.98	1.93	1.78	1.76	1.60	1.80
Silver	Ag	<0.000010	<0.010	<0.010	<0.010	<0.010	<0.000010		<0.010	<0.010	<0.010	<0.010	<0.000010	<0.010
Sodium	Na	3.3	2.8	2.4	2.6	2.2	3.9		5.0	3.9	2.6	2.9	2.3	3.0
Strontium	Sr	0.0881	0.0927	0.0905	0.0940	0.0835	0.110		0.140	0.148	0.0908	0.141	0.0690	0.132
Thallium	Tl	<0.00010	<0.20	<0.20	<0.20	<0.20	<0.00010		<0.50	<0.20	<0.20	<0.20	<0.00010	<0.20
Tin	Sn	<0.00010	<0.030	<0.030	<0.030	<0.030	0.00053		<0.030	<0.030	<0.030	<0.030	<0.00010	<0.030
Titanium	Ti	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	U	<0.000010					<0.000010						<0.000010	
Vanadium	V	<0.0010	<0.030	<0.030	<0.030	<0.030	<0.0010		<0.030	<0.030	<0.030	<0.030	<0.0010	<0.030
Zinc	Zn	0.0011	<0.0050	<0.0050	<0.0050	<0.0050	0.0056		<0.0050	<0.0050	0.0062	<0.0050	0.0013	<0.0050
Dissolved Anions	**(mg/L)**													
Chloride	Cl	<0.50					<0.50	<0.50					<0.50	
Fluoride	F	<0.020					<0.020	<0.020					<0.020	
Nutrients	**(mg/L)**													
Ammonia	N	<0.020					<0.020						<0.020	
Nitrite/Nitrate	N	0.0342					<0.0050						<0.0050	
Total Dissolved Solids	(mg/L)	79					115						41	

Note: Detection limits are mg/L unl
Column 5

APPENDIX B.2
PHASE II ICP-MS AND ICP-OES DATA

COLUMN 6

Dissolved Metals	**(mg/L)**	Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 7 DUP	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Aluminum	Al	0.0046	0.0112	<0.20	0.0073	<0.20	0.0029	<0.20	<0.20	<0.20	<0.20	<0.20	0.0016	<0.20	<0.20	<0.20	<0.20
Antimony	Sb	0.00041	0.00099	<0.20	0.00074	<0.20	0.00047	<0.20	<0.20	<0.20	<0.20	<0.20	0.00024	<0.20	<0.20	<0.20	<0.20
Arsenic	As	0.00069	0.00046	<0.20	0.00026	<0.20	0.00023	<0.20	<0.20	<0.20	<0.20	<0.20	0.00041	<0.20	<0.20	<0.20	<0.20
Barium	Ba	0.00110	0.00215	<0.010	0.00233	<0.010	0.00234	<0.010	<0.010	<0.010	<0.010	<0.010	0.00478	<0.010	<0.010	<0.010	<0.010
Beryllium	Be	<0.00050	<0.00050	<0.0050	<0.00050	<0.0050	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050
Bismuth	Bi	<0.00050	<0.00050	<0.20	<0.00050	<0.20	<0.00050	<0.20	<0.20	<0.20	<0.20	<0.20	<0.00050	<0.20	<0.20	<0.20	<0.20
Boron	B	0.593	1.49	1.36	1.00	0.98	0.629	0.65	0.64	0.64	0.52	0.46	0.412	0.55	0.54	0.49	0.49
Cadmium	Cd	<0.000050	<0.000050	<0.010	<0.000050	<0.010	<0.000050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.000050	<0.010	<0.010	<0.010	<0.010
Calcium	Ca	3.35	7.12	7.57	7.09	7.58	6.57	7.99	10.7	10.7	8.36	8.41	13.1	17.5	22.1	21.9	22.5
Chromium	Cr	<0.00050	0.00069	<0.010	<0.00050	<0.010	<0.00050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.00050	<0.010	<0.010	<0.010	<0.010
Cobalt	Co	<0.00010	<0.00010	<0.010	<0.00010	<0.010	<0.00010	<0.010	<0.010	<0.010	<0.010	<0.010	0.00013	<0.010	<0.010	<0.010	<0.010
Copper	Cu	0.00412	0.0101	0.014	0.0117	<0.010	0.0124	0.017	0.022	0.018	<0.010	<0.010	0.0194	<0.010	0.010	<0.010	<0.010
Iron	Fe	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Lead	Pb	0.000053	<0.000050	<0.050	0.00113	<0.050	0.000055	<0.050	<0.050	<0.050	<0.050	<0.050	<0.000050	<0.050	<0.050	<0.050	<0.050
Lithium	Li	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.010
Magnesium	Mg	7.73	20.7	22.4	19.7	19.2	16.4	18.9	25.5	25.7	18.1	18.0	25.0	36.4	40.9	38.3	39.5
Manganese	Mn	0.00215	0.00359	<0.0050	0.00389	0.0051	0.00393	0.0059	0.0079	0.0067	0.0061	0.0067	0.00823	0.0183	0.0299	0.0352	0.0432
Mercury	Hg	<0.000050	<0.000050		0.000052		0.000124						0.000356				
Molybdenum	Mo	0.000764	0.000716	<0.030	0.000339	<0.030	0.000188	<0.030	<0.030	<0.030	<0.030	<0.030	0.000111	<0.030	<0.030	<0.030	<0.030
Nickel	Ni	0.00347	0.00673	<0.050	0.00546	<0.050	0.00492	<0.050	<0.050	<0.050	<0.050	<0.050	0.00804	<0.050	0.058	0.082	0.109
Phosphorous	P	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Potassium	K	5.8	13.5	14.8	11.9	12.1	8.4	10.7	10.9	10.5	9.0	7.7	6.9	8.9	9.7	9.2	9.0
Selenium	Se	0.0012	0.0021	<0.20	0.0018	<0.20	0.0012	<0.20	<0.20	<0.20	<0.20	<0.20	0.0016	<0.20	<0.20	<0.20	<0.20
Silicon	Si	2.22	6.19	5.86	4.23	4.97	3.65	3.52	3.24	3.22	3.26	2.58	2.04	2.40	2.39	2.09	2.03
Silver	Ag	0.000220	0.000097	<0.010	0.000264	<0.010	0.000212	<0.010	<0.010	<0.010	<0.010	<0.010	0.000308	<0.010	<0.010	<0.010	<0.010
Sodium	Na	16.7	31.7	24.7	15.8	13.4	9.1	8.4	8.9	8.8	6.2	5.1	5.3	7.5	6.5	5.4	4.7
Strontium	Sr	0.0283	0.0590	0.0632	0.0499	0.0536	0.0464	0.0558	0.0699	0.0699	0.0530	0.0502	0.0755	0.104	0.134	0.113	0.115
Thallium	Tl	<0.00010	<0.00010	<0.20	<0.00010	<0.20	<0.00010	<0.20	<0.20	<0.20	<0.20	<0.20	<0.00010	<0.20	<0.20	<0.20	<0.20
Tin	Sn	<0.00010	<0.00010	<0.030	0.00087	<0.030	<0.00010	<0.030	<0.030	<0.030	<0.030	<0.030	<0.00010	<0.030	<0.030	<0.030	<0.030
Titanium	Ti	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	U	<0.000010	<0.000010		<0.000010		<0.000010						<0.000010				
Vanadium	V	<0.0010	<0.0010	<0.030	<0.0010	<0.030	<0.0010	<0.030	<0.030	<0.030	<0.030	<0.030	<0.0010	<0.030	<0.030	<0.030	<0.030
Zinc	Zn	0.0010	0.0013	<0.0050	0.0018	<0.0050	0.0015	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0050	<0.0050	<0.0050	<0.0050
Dissolved Anions	**(mg/L)**																
Chloride	Cl	9.91	11.3		5.58		3.02						2.96				
Fluoride	F	<0.020	0.033		<0.020		<0.020						<0.020				
Nutrients	**(mg/L)**																
Ammonia	N	0.059	0.063		0.065		<0.020						<0.020				
Nitrite/Nitrate	N	<0.050	0.069		<0.050		<0.050						<0.050				
Total Dissolved Solids	(mg/L)	82	250		170		205						162				

Note: Detection limits are mg/L unless specified otherwise...
Column 6

APPENDIX B.2
PHASE II ICP-MS AND ICP-OES DATA

COLUMN 6

Dissolved Metals	(mg/L)	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 20 DUP	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26
Aluminum	Al	0.0028	<0.20	<0.20	<0.20	<0.20	0.0030		<0.20	<0.20	<0.20	<0.20	<0.0010	<0.20
Antimony	Sb	0.00039	<0.20	<0.20	<0.20	<0.20	0.00017		<0.20	<0.20	<0.20	<0.20	0.00010	<0.20
Arsenic	As	<0.00020	<0.20	<0.20	<0.20	<0.20	<0.00010		<0.20	<0.20	<0.20	<0.20	<0.00010	<0.20
Barium	Ba	0.00631	<0.010	<0.010	<0.010	<0.010	0.00620		<0.010	<0.010	<0.010	<0.010	0.00623	<0.010
Beryllium	Be	<0.0010	<0.0050	<0.0050	<0.0050	<0.0050	<0.00050		<0.0050	<0.0050	<0.0050	<0.0050	<0.00050	<0.0050
Bismuth	Bi	<0.0010	<0.20	<0.20	<0.20	<0.20	<0.00050		<0.20	<0.20	<0.20	<0.20	<0.00050	<0.20
Boron	B	0.455	0.45	0.45	0.42	0.46	0.386		0.41	0.39	0.37	0.40	0.335	0.37
Cadmium	Cd	<0.00010	<0.010	<0.010	<0.010	<0.010	<0.000050		<0.010	<0.010	<0.010	<0.010	<0.000050	<0.010
Calcium	Ca	20.6	21.1	22.5	19.2	13.8	15.5		16.5	16.1	18.6	19.3	14.2	16.7
Chromium	Cr	<0.0010	<0.010	<0.010	<0.010	<0.010	<0.00050		<0.010	<0.010	<0.010	<0.010	<0.00050	<0.010
Cobalt	Co	0.00067	<0.010	<0.010	<0.010	<0.010	0.00080		<0.010	<0.010	<0.010	<0.010	0.00062	<0.010
Copper	Cu	0.00690	<0.010	<0.010	<0.010	<0.010	0.00837		0.021	0.014	0.012	<0.010	0.00301	0.011
Iron	Fe	<0.030	<0.030	<0.030	<0.030	0.043	<0.030		<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Lead	Pb	<0.00010	<0.050	<0.050	<0.050	<0.050	<0.000050		<0.050	<0.050	<0.050	<0.050	<0.000050	<0.050
Lithium	Li	<0.010	<0.010	<0.010	<0.010	<0.010	0.0059		<0.010	0.013	<0.010	<0.010	<0.0050	<0.010
Magnesium	Mg	35.5	33.7	37.6	37.9	26.4	29.9		28.7	30.8	39.9	44.2	29.8	38.6
Manganese	Mn	0.0440	0.0493	0.0523	0.0490	0.0466	0.0591		0.0618	0.0638	0.0701	0.0748	0.0505	0.0755
Mercury	Hg	<0.000050					0.000525						0.000081	
Molybdenum	Mo	<0.00010	<0.030	<0.030	<0.030	<0.030	<0.000050		<0.030	<0.030	<0.030	<0.030	<0.000050	<0.030
Nickel	Ni	0.131	0.131	0.118	0.116	0.127	0.162		0.168	0.180	0.178	0.228	0.135	0.214
Phosphorous	P	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Potassium	K	8.4	9.0	8.6	7.6	8.5	9.6		8.3	7.5	7.2	8.2	6.9	7.9
Selenium	Se	<0.0020	<0.20	<0.20	<0.20	<0.20	0.0017		<0.20	<0.20	<0.20	<0.20	0.0025	<0.20
Silicon	Si	1.94	2.00	1.86	1.72	2.24	2.39		2.38	2.25	1.96	1.99	1.98	2.10
Silver	Ag	<0.000020	<0.010	<0.010	<0.010	<0.010	0.000079		<0.010	<0.010	<0.010	<0.010	0.000017	<0.010
Sodium	Na	4.2	3.3	2.9	3.2	2.7	2.6		3.7	<2.0	2.4	2.4	<2.0	2.1
Strontium	Sr	0.0919	0.105	0.0933	0.0954	0.0684	0.0683		0.0743	0.0679	0.0838	0.0826	0.0489	0.0728
Thallium	Tl	<0.00020	<0.20	<0.20	<0.20	<0.20	<0.00010		<0.50	<0.20	<0.20	<0.20	<0.00010	<0.20
Tin	Sn	<0.00020	<0.030	<0.030	<0.030	<0.030	<0.00010		<0.030	<0.030	<0.030	<0.030	<0.00010	<0.030
Titanium	Ti	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	U	<0.000020					<0.000010						<0.000010	
Vanadium	V	<0.0020	<0.030	<0.030	<0.030	<0.030	<0.0010		<0.030	<0.030	<0.030	0.041	<0.0010	<0.030
Zinc	Zn	<0.0020	<0.0050	<0.0050	<0.0050	<0.0050	0.0021		<0.0050	<0.0050	<0.0050	<0.0050	0.0015	<0.0050
Dissolved Anions	**(mg/L)**													
Chloride	Cl	1.24					0.65						0.53	
Fluoride	F	<0.020					<0.020						<0.020	
Nutrients	**(mg/L)**													
Ammonia	N	<0.020					<0.020	0.022					<0.020	
Nitrite/Nitrate	N	0.0312					0.0165	<0.25					<0.0050	
Total Dissolved Solids	(mg/L)	301					246						214	

Note: Detection limits are mg/L unl
Column 6

APPENDIX B.2
PHASE II ICP-MS AND ICP-OES DATA

COLUMN 7

Dissolved Metals	(mg/L)	Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 10 DUP	Week 11	Week 12	Week 13	Week 14
Aluminum	Al	0.0750	0.109	<0.20	0.148	<0.20	0.0883	<0.20	<0.20	<0.20	<0.20	0.142	0.143	<0.20	<0.20	<0.20	<0.20
Antimony	Sb	0.0269	0.0307	<0.20	0.0154	<0.20	0.00968	<0.20	<0.20	<0.20	<0.20	0.00693	0.00691	<0.20	<0.20	<0.20	<0.20
Arsenic	As	0.0174	0.0241	<0.20	0.0263	<0.20	0.0247	<0.20	<0.20	<0.20	<0.20	0.0332	0.0326	<0.20	<0.20	<0.20	<0.20
Barium	Ba	0.00143	0.000711	<0.010	0.000826	<0.010	0.00142	<0.010	<0.010	<0.010	<0.010	0.000657	0.000678	<0.010	<0.010	<0.010	<0.010
Beryllium	Be	<0.00050	<0.00050	<0.0050	<0.00050	<0.0050	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00050	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050
Bismuth	Bi	<0.00050	<0.00050	<0.20	<0.00050	<0.20	<0.00050	<0.20	<0.20	<0.20	<0.20	<0.00050	<0.00050	<0.20	<0.20	<0.20	<0.20
Boron	B	0.413	0.345	0.26	0.195	0.16	0.105	<0.10	<0.10	<0.10	<0.10	0.057	0.055	<0.10	<0.10	<0.10	<0.10
Cadmium	Cd	0.000050	<0.000050	<0.010	<0.000050	<0.010	<0.000050	<0.010	<0.010	<0.010	<0.010	<0.000050	<0.000050	<0.010	<0.010	<0.010	<0.010
Calcium	Ca	3.94	5.04	7.44	8.76	11.3	14.9	11.2	12.7	12.2	12.0	11.6	11.4	13.2	13.8	13.3	13.7
Chromium	Cr	0.00122	<0.00050	<0.010	<0.00050	<0.010	<0.00050	<0.010	<0.010	<0.010	<0.010	<0.00050	0.00133	<0.010	<0.010	<0.010	<0.010
Cobalt	Co	0.00090	0.00014	<0.010	0.00014	<0.010	0.00042	<0.010	<0.010	<0.010	<0.010	0.00012	0.00012	<0.010	<0.010	<0.010	<0.010
Copper	Cu	0.00611	0.00405	<0.010	0.00082	<0.010	0.00345	<0.010	<0.010	<0.010	<0.010	0.00049	0.00082	<0.010	<0.010	<0.010	<0.010
Iron	Fe	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Lead	Pb	0.000205	0.000080	<0.050	<0.000050	<0.050	0.000083	<0.050	<0.050	<0.050	<0.050	<0.000050	<0.000050	<0.050	<0.050	<0.050	<0.050
Lithium	Li	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.010
Magnesium	Mg	0.65	0.89	1.43	1.55	1.88	2.05	1.51	1.67	1.39	1.31	1.22	1.20	1.30	1.26	1.17	1.16
Manganese	Mn	0.00490	0.00164	<0.0050	0.00252	<0.0050	0.0102	<0.0050	<0.0050	<0.0050	0.0056	0.00386	0.00388	<0.0050	<0.0050	<0.0050	<0.0050
Mercury	Hg	<0.000050	<0.000050		<0.000050		<0.000050					<0.000050	<0.000050				
Molybdenum	Mo	0.104	0.0426	<0.030	0.0170	<0.030	0.00846	<0.030	<0.030	<0.030	<0.030	0.00816	0.00805	<0.030	<0.030	<0.030	<0.030
Nickel	Ni	0.00160	<0.00050	<0.050	<0.00050	<0.050	0.00069	<0.050	<0.050	<0.050	<0.050	<0.00050	<0.00050	<0.050	<0.050	<0.050	<0.050
Phosphorous	P	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Potassium	K	11.8	8.8	8.3	5.8	6.4	3.8	3.8	3.3	<2.0	2.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Selenium	Se	0.0028	0.0026	<0.20	0.0020	<0.20	<0.0010	<0.20	<0.20	<0.20	<0.20	0.0010	0.0010	<0.20	<0.20	<0.20	<0.20
Silicon	Si	3.97	2.73	2.66	2.28	2.32	1.81	2.06	1.95	1.90	1.67	1.42	1.39	1.59	1.55	1.45	1.44
Silver	Ag	0.000022	<0.000010	<0.010	<0.000010	<0.010	<0.000010	<0.010	<0.010	<0.010	<0.010	<0.000010	<0.000010	<0.010	<0.010	<0.010	<0.010
Sodium	Na	47.8	23.0	13.5	7.5	5.5	3.8	2.9	2.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Strontium	Sr	0.0674	0.0849	0.138	0.136	0.188	0.251	0.172	0.193	0.180	0.161	0.167	0.166	0.171	0.198	0.164	0.173
Thallium	Tl	<0.00010	<0.00010	<0.20	<0.00010	<0.20	<0.00010	<0.20	<0.20	<0.20	<0.20	<0.00010	<0.00010	<0.20	<0.20	<0.20	<0.20
Tin	Sn	0.00079	0.00054	<0.030	0.00022	<0.030	0.00014	<0.030	<0.030	<0.030	<0.030	<0.00010	<0.00010	<0.030	<0.030	<0.030	<0.030
Titanium	Ti	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	U	0.000422	0.000258		0.000313		0.000408					0.000499	0.000486				
Vanadium	V	0.0052	0.0033	<0.030	0.0028	<0.030	0.0013	<0.030	<0.030	<0.030	<0.030	0.0018	0.0017	<0.030	<0.030	<0.030	<0.030
Zinc	Zn	0.0033	0.0029	<0.0050	0.0011	<0.0050	0.0034	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	0.0010	<0.0050	<0.0050	<0.0050	<0.0050
Dissolved Anions	**(mg/L)**																
Chloride	Cl	11.0	4.65		1.46		0.68					<0.50					
Fluoride	F	0.664	0.429		0.168		0.050					0.040					
Nutrients	**(mg/L)**																
Ammonia	N	0.516	0.190		0.053		<0.020					0.023					
Nitrite/Nitrate	N	0.280	0.106		<0.050		<0.050					<0.050					
Total Dissolved Solids	(mg/L)	152	90		<50		52					<40					

Note: Detection limits are mg/L unless specified otherwise...
Column 7

APPENDIX B.2
PHASE II ICP-MS AND ICP-OES DATA

COLUMN 7

Dissolved Metals	(mg/L)	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 22 DUP	Week 23	Week 24	Week 25	Week 26
Aluminum	Al	0.138	0.27	0.20	0.22	0.24	0.215	0.23	0.23	0.23	0.20	0.26	0.224	0.25
Antimony	Sb	0.00393	<0.20	<0.20	<0.20	<0.20	0.00583	<0.20	<0.20	<0.20	<0.20	<0.20	0.00394	<0.20
Arsenic	As	0.0336	<0.20	<0.20	<0.20	<0.20	0.0417	<0.20	<0.20	<0.20	<0.20	<0.20	0.0571	<0.20
Barium	Ba	0.000657	<0.010	<0.010	<0.010	<0.010	0.000914	<0.010	<0.010	<0.010	<0.010	<0.010	0.000503	<0.010
Beryllium	Be	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00050	<0.0050
Bismuth	Bi	<0.00050	<0.20	<0.20	<0.20	<0.20	<0.00050	<0.20	<0.20	<0.20	<0.20	<0.20	<0.00050	<0.20
Boron	B	0.037	<0.10	<0.10	<0.10	<0.10	0.059	<0.10	<0.10	<0.10	<0.10	<0.10	0.032	<0.10
Cadmium	Cd	<0.000050	<0.010	<0.010	<0.010	<0.010	<0.000050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.000050	<0.010
Calcium	Ca	14.9	14.0	14.7	12.9	14.3	16.8	17.0	16.3	17.1	15.6	18.0	13.7	16.9
Chromium	Cr	<0.00050	<0.010	<0.010	<0.010	<0.010	<0.00050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.00050	<0.010
Cobalt	Co	0.00016	<0.010	<0.010	<0.010	<0.010	0.00021	<0.010	<0.010	<0.010	<0.010	<0.010	0.00021	<0.010
Copper	Cu	0.00331	<0.010	<0.010	<0.010	<0.010	0.00147	0.013	<0.010	<0.010	<0.010	<0.010	0.00044	<0.010
Iron	Fe	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Lead	Pb	<0.000050	<0.050	<0.050	<0.050	<0.050	<0.000050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.000050	<0.050
Lithium	Li	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.0050	0.013	<0.010	0.012	<0.010	<0.010	<0.0050	<0.010
Magnesium	Mg	1.09	0.99	1.02	0.88	0.87	1.29	1.30	1.16	1.20	1.37	1.24	0.92	1.18
Manganese	Mn	0.00510	0.0054	0.0051	<0.0050	0.0050	0.00495	0.0073	0.0053	0.0057	0.0062	0.0068	0.00512	0.0066
Mercury	Hg	<0.000050					<0.000050						<0.000050	
Molybdenum	Mo	0.00564	<0.030	<0.030	<0.030	<0.030	0.0101	<0.030	<0.030	<0.030	<0.030	<0.030	0.00480	<0.030
Nickel	Ni	<0.00050	<0.050	<0.050	<0.050	<0.050	0.00066	<0.050	<0.050	<0.050	<0.050	<0.050	<0.00050	<0.050
Phosphorous	P	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Potassium	K	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Selenium	Se	<0.0010	<0.20	<0.20	<0.20	<0.20	<0.0010	<0.20	<0.20	<0.20	<0.20	<0.20	<0.0010	<0.20
Silicon	Si	1.44	1.63	1.54	1.50	1.64	1.89	1.98	1.84	1.91	1.79	1.94	1.70	1.82
Silver	Ag	<0.000010	<0.010	<0.010	<0.010	<0.010	<0.000010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.000010	<0.010
Sodium	Na	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Strontium	Sr	0.167	0.174	0.157	0.163	0.168	0.195	0.210	0.189	0.199	0.188	0.210	0.127	0.201
Thallium	Tl	<0.00010	<0.20	<0.20	<0.20	<0.20	<0.00010	<0.50	<0.20	<0.20	<0.20	<0.20	<0.00010	<0.20
Tin	Sn	<0.00010	<0.030	<0.030	<0.030	<0.030	<0.00010	<0.030	<0.030	<0.030	<0.030	<0.030	<0.00010	<0.030
Titanium	Ti	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	U	0.000467					0.00104						0.000654	
Vanadium	V	0.0011	<0.030	<0.030	<0.030	<0.030	0.0018	<0.030	<0.030	<0.030	<0.030	<0.030	0.0022	<0.030
Zinc	Zn	0.0015	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0010	<0.0050
Dissolved Anions	**(mg/L)**													
Chloride	Cl	<0.50					<0.50						<0.50	
Fluoride	F	<0.020					<0.020						<0.020	
Nutrients	**(mg/L)**													
Ammonia	N	<0.020					<0.020						<0.020	
Nitrite/Nitrate	N	0.0529					<0.0050						<0.0050	
Total Dissolved Solids	(mg/L)	57					48						38	

Note: Detection limits are mg/L unl
Column 7

APPENDIX B.2
PHASE II ICP-MS AND ICP-OES DATA

COLUMN 8

Dissolved Metals	(mg/L)	Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 10 DUP	Week 11	Week 12	Week 13	Week 14
Aluminum	Al	0.168	0.650	0.25	0.573	<0.20	0.652	<0.20	<0.20	<0.20	<0.20	0.0892		<0.20	<0.20	<0.20	<0.20
Antimony	Sb	0.00308	0.00309	<0.20	0.00222	<0.20	0.00161	<0.20	<0.20	<0.20	<0.20	0.00109		<0.20	<0.20	<0.20	<0.20
Arsenic	As	0.00623	0.00884	<0.20	0.0108	<0.20	0.00995	<0.20	<0.20	<0.20	<0.20	0.0106		<0.20	<0.20	<0.20	<0.20
Barium	Ba	0.00309	0.00443	<0.010	0.00389	<0.010	0.00369	<0.010	<0.010	<0.010	<0.010	0.00101		<0.010	<0.010	<0.010	<0.010
Beryllium	Be	<0.00050	<0.00050	<0.0050	<0.00050	<0.0050	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00050		<0.0050	<0.0050	<0.0050	<0.0050
Bismuth	Bi	<0.00050	<0.00050	<0.20	<0.00050	<0.20	<0.00050	<0.20	<0.20	<0.20	<0.20	<0.00050		<0.20	<0.20	<0.20	<0.20
Boron	B	0.416	0.310	0.25	0.174	<0.10	0.086	<0.10	<0.10	<0.10	<0.10	0.064		<0.10	<0.10	<0.10	<0.10
Cadmium	Cd	<0.000050	<0.000050	<0.010	<0.000050	<0.010	<0.000050	<0.010	<0.010	<0.010	<0.010	<0.000050		<0.010	<0.010	<0.010	<0.010
Calcium	Ca	7.41	0.821	0.409	0.387	0.190	0.178	0.470	0.702	1.29	0.668	0.893		1.06	1.17	1.25	1.40
Chromium	Cr	<0.00050	0.00148	<0.010	0.00118	<0.010	0.00111	<0.010	<0.010	<0.010	<0.010	<0.00050		<0.010	<0.010	<0.010	<0.010
Cobalt	Co	0.00140	0.00059	<0.010	0.00057	<0.010	0.00052	<0.010	<0.010	<0.010	<0.010	0.00155		<0.010	<0.010	<0.010	<0.010
Copper	Cu	0.0107	0.0126	<0.010	0.00489	<0.010	0.00596	<0.010	<0.010	<0.010	<0.010	0.00395		<0.010	<0.010	<0.010	<0.010
Iron	Fe	0.034	0.153	0.111	0.166	0.050	0.149	0.052	0.032	<0.030	0.065	<0.030		<0.030	<0.030	<0.030	<0.030
Lead	Pb	0.000261	0.000692	<0.050	0.000650	<0.050	0.000642	<0.050	<0.050	<0.050	<0.050	0.000182		<0.050	<0.050	<0.050	<0.050
Lithium	Li	0.0172	0.0094	<0.010	0.0075	<0.010	0.0058	0.013	<0.010	<0.020	<0.010	0.0076		<0.010	<0.010	<0.010	<0.010
Magnesium	Mg	3.54	0.54	0.34	0.31	0.13	0.21	0.37	0.53	0.99	0.58	0.70		0.87	0.96	1.08	1.24
Manganese	Mn	0.00919	0.00255	<0.0050	0.00202	<0.0050	0.00161	<0.0050	<0.0050	<0.0050	<0.0050	0.00315		<0.0050	<0.0050	<0.0050	0.0059
Mercury	Hg	<0.000050	<0.000050		<0.000050		<0.000050					<0.000050					
Molybdenum	Mo	0.0344	0.0135	<0.030	0.00645	<0.030	0.00318	<0.030	<0.030	<0.030	<0.030	0.00181		<0.030	<0.030	<0.030	<0.030
Nickel	Ni	0.0159	0.00413	<0.050	0.00357	<0.050	0.00306	<0.050	<0.050	<0.050	<0.050	0.00882		<0.050	<0.050	<0.050	<0.050
Phosphorous	P	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.30	<0.30	<0.30
Potassium	K	6.0	2.4	3.0	2.2	<2.0	<2.0	2.6	2.8	2.2	3.0	2.9		2.8	2.9	3.0	3.1
Selenium	Se	0.0023	0.0012	<0.20	<0.0010	<0.20	<0.0010	<0.20	<0.20	<0.20	<0.20	<0.0010		<0.20	<0.20	<0.20	<0.20
Silicon	Si	2.26	3.22	2.83	3.01	1.92	2.81	2.57	2.26	1.91	2.09	1.70		1.86	1.81	1.68	1.69
Silver	Ag	0.000096	0.000013	<0.010	<0.000010	<0.010	<0.000010	<0.010	<0.010	<0.010	<0.010	0.000050		<0.010	<0.010	<0.010	<0.010
Sodium	Na	50.1	24.7	17.3	14.2	7.1	7.2	8.7	8.3	7.1	5.8	4.7		4.3	3.5	3.3	3.0
Strontium	Sr	0.222	0.0286	0.0152	0.0143	<0.0050	0.00681	0.0176	0.0245	0.0433	0.0252	0.0324		0.0369	0.0447	0.0423	0.0491
Thallium	Tl	<0.00010	<0.00010	<0.20	<0.00010	<0.20	<0.00010	<0.20	<0.20	<0.20	<0.20	0.00021		<0.20	<0.20	<0.20	<0.20
Tin	Sn	<0.00010	0.00024	<0.030	0.00022	<0.030	0.00024	<0.030	<0.030	<0.030	<0.030	<0.00010		<0.030	<0.030	<0.030	<0.030
Titanium	Ti	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		<0.010	<0.010	<0.010	<0.010
Uranium	U	0.000086	0.000083		0.000065		0.000064					0.000021					
Vanadium	V	0.0010	0.0024	<0.030	0.0021	<0.030	0.0018	<0.030	<0.030	<0.030	<0.030	<0.0010		<0.030	<0.030	<0.030	<0.030
Zinc	Zn	0.0143	0.0030	<0.0050	0.0019	<0.0050	0.0014	<0.0050	<0.0050	0.0052	<0.0050	0.0022		<0.0050	<0.0050	<0.0050	<0.0050
Dissolved Anions	**(mg/L)**																
Chloride	Cl	1.60	<0.50		<0.50		<0.50					<0.50	<0.50				
Fluoride	F	0.224	0.220		0.087		0.029					0.022	0.024				
Nutrients	**(mg/L)**																
Ammonia	N	0.028	<0.020		<0.020		<0.020					<0.020					
Nitrite/Nitrate	N	0.138	0.052		<0.050		0.086					<0.050					
Total Dissolved Solids	(mg/L)	246	162		82		92					<40					

Note: Detection limits are mg/L unless specified otherwise...
Column 8

APPENDIX B.2
PHASE II ICP-MS AND ICP-OES DATA

COLUMN 8

Dissolved Metals	(mg/L)	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 24 DUP	Week 25	Week 26
Aluminum	Al	0.0088	<0.20	<0.20	<0.20	<0.20	0.0034	<0.20	<0.20	<0.20	<0.20	<0.20	0.0097	<0.20
Antimony	Sb	0.00056	<0.20	<0.20	<0.20	<0.20	0.00040	<0.20	<0.20	<0.20	<0.20	<0.20	0.00030	<0.20
Arsenic	As	0.00724	<0.20	<0.20	<0.20	<0.20	0.00349	<0.20	<0.20	<0.20	<0.20	<0.20	0.00210	<0.20
Barium	Ba	0.000572	<0.010	<0.010	<0.010	<0.010	0.00202	<0.010	<0.010	<0.010	<0.010	<0.010	0.00192	<0.010
Beryllium	Be	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00050	<0.0050
Bismuth	Bi	<0.00050	<0.20	<0.20	<0.20	<0.20	<0.00050	<0.20	<0.20	<0.20	<0.20	<0.20	<0.00050	<0.20
Boron	B	0.047	<0.10	<0.10	<0.10	<0.10	0.084	0.11	0.12	<0.10	<0.10	<0.10	0.054	<0.10
Cadmium	Cd	<0.000050	<0.010	<0.010	<0.010	<0.010	0.000064	<0.010	<0.010	<0.010	<0.010	<0.010	0.000055	<0.010
Calcium	Ca	1.53	1.59	1.87	1.79	2.68	5.86	6.39	7.10	3.94	7.89	7.84	4.78	8.24
Chromium	Cr	<0.00050	<0.010	<0.010	<0.010	<0.010	<0.00050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.00050	<0.010
Cobalt	Co	0.00383	<0.010	<0.010	<0.010	0.011	0.0231	0.018	0.032	0.017	0.052	0.053	0.0292	0.090
Copper	Cu	0.00653	<0.010	<0.010	<0.010	<0.010	0.00700	0.020	0.013	<0.010	0.021	0.013	0.0203	0.027
Iron	Fe	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	0.039	0.063	0.052	0.109	0.112
Lead	Pb	0.000089	<0.050	<0.050	<0.050	<0.050	0.000283	<0.050	<0.050	<0.050	<0.050	<0.050	0.000633	<0.050
Lithium	Li	0.0063	<0.010	<0.010	<0.010	<0.010	0.0099	<0.010	0.020	<0.010	0.015	0.010	0.0092	0.015
Magnesium	Mg	1.28	1.40	1.71	1.76	2.36	5.34	5.93	6.75	4.18	6.91	6.90	4.99	8.22
Manganese	Mn	0.00608	0.0079	0.0097	0.0107	0.0165	0.0379	0.0481	0.0618	0.0364	0.0755	0.0745	0.0495	0.110
Mercury	Hg	<0.000050					<0.000050						<0.000050	
Molybdenum	Mo	0.000656	<0.030	<0.030	<0.030	<0.030	0.000610	<0.030	<0.030	<0.030	<0.030	<0.030	0.000135	<0.030
Nickel	Ni	0.0177	<0.050	<0.050	<0.050	<0.050	0.120	0.125	0.188	0.092	0.243	0.237	0.136	0.362
Phosphorous	P	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Potassium	K	3.0	3.3	3.3	2.9	3.5	3.5	2.9	2.9	3.5	3.7	3.6	3.5	3.5
Selenium	Se	<0.0010	<0.20	<0.20	<0.20	<0.20	<0.0010	<0.20	<0.20	<0.20	<0.20	<0.20	<0.0010	<0.20
Silicon	Si	1.67	1.81	1.75	1.67	1.82	2.05	2.33	2.46	1.90	1.88	1.90	1.89	2.27
Silver	Ag	<0.000010	<0.010	<0.010	<0.010	<0.010	<0.000010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.000010	<0.010
Sodium	Na	2.9	2.6	2.3	2.3	2.5	3.4	4.5	2.9	<2.0	<2.0	<2.0	<2.0	<2.0
Strontium	Sr	0.0485	0.0570	0.0567	0.0669	0.0952	0.184	0.211	0.228	0.141	0.248	0.246	0.147	0.279
Thallium	Tl	<0.00010	<0.20	<0.20	<0.20	<0.20	<0.00010	<0.50	<0.20	<0.20	<0.20	<0.20	<0.00010	<0.20
Tin	Sn	<0.00010	<0.030	<0.030	<0.030	<0.030	<0.00010	<0.030	<0.030	<0.030	<0.030	<0.030	<0.00010	<0.030
Titanium	Ti	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	U	0.000026					0.000049						0.000213	
Vanadium	V	<0.0010	<0.030	<0.030	<0.030	<0.030	<0.0010	<0.030	<0.030	<0.030	<0.030	<0.030	<0.0010	<0.030
Zinc	Zn	0.0025	<0.0050	<0.0050	<0.0050	0.0058	0.0076	0.0084	0.0121	0.0091	0.0193	0.0194	0.0172	0.0324
Dissolved Anions	**(mg/L)**													
Chloride	Cl	<0.50					<0.50						<0.50	
Fluoride	F	<0.020					<0.020						<0.020	
Nutrients	**(mg/L)**													
Ammonia	N	<0.020					<0.020						<0.020	
Nitrite/Nitrate	N	0.0693					<0.0050						<0.0050	
Total Dissolved Solids	(mg/L)	<33					77						53	

Note: Detection limits are mg/L unl
Column 8

APPENDIX B.2
PHASE II ICP-MS AND ICP-OES DATA

COLUMN 9

Dissolved Metals	(mg/L)	Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 10 DUP	Week 11	Week 12	Week 13	Week 14
Aluminum	Al	0.225	0.356	0.46	0.532	0.82	0.486	0.56	0.56	0.34	0.42	0.0570		0.36	0.32	0.26	0.22
Antimony	Sb	0.00070	0.00054	<0.20	0.00055	<0.20	0.00075	<0.20	<0.20	<0.20	<0.20	0.00019		<0.20	<0.20	<0.20	<0.20
Arsenic	As	0.00201	0.00083	<0.20	0.00187	<0.20	0.00105	<0.20	<0.20	<0.20	<0.20	0.00094		<0.20	<0.20	<0.20	<0.20
Barium	Ba	0.000599	0.000803	<0.010	0.000812	<0.010	0.000559	<0.010	<0.010	<0.010	<0.010	0.000700		<0.010	<0.010	<0.010	<0.010
Beryllium	Be	<0.00050	<0.00050	<0.0050	<0.00050	<0.0050	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00050		<0.0050	<0.0050	<0.0050	<0.0050
Bismuth	Bi	<0.00050	<0.00050	<0.20	<0.00050	<0.20	<0.00050	<0.20	<0.20	<0.20	<0.20	<0.00050		<0.20	<0.20	<0.20	<0.20
Boron	B	0.450	0.220	0.25	0.267	0.27	0.162	0.18	0.19	<0.10	<0.10	0.077		<0.10	<0.10	<0.10	<0.10
Cadmium	Cd	<0.000050	<0.000050	<0.010	<0.000050	<0.010	<0.000050	<0.010	<0.010	<0.010	<0.010	<0.000050		<0.010	<0.010	<0.010	<0.010
Calcium	Ca	1.93	1.77	2.04	1.47	2.00	1.80	2.08	2.26	2.49	2.17	2.41		3.02	3.38	3.53	4.00
Chromium	Cr	0.00256	0.00588	<0.010	0.00731	0.010	0.00535	0.011	<0.010	<0.010	<0.010	<0.00050		<0.010	<0.010	<0.010	<0.010
Cobalt	Co	0.00018	0.00028	<0.010	0.00044	<0.010	0.00029	<0.010	<0.010	<0.010	<0.010	<0.00010		<0.010	<0.010	<0.010	<0.010
Copper	Cu	0.0116	0.0163	0.024	0.0292	0.045	0.0233	0.038	0.041	0.026	0.034	0.00457		0.034	0.027	0.025	0.023
Iron	Fe	0.777	1.31	1.79	2.01	3.04	1.47	2.05	1.96	1.25	1.60	0.086		1.22	0.957	0.924	0.876
Lead	Pb	0.000543	0.000690	<0.050	0.00124	<0.050	0.000911	<0.050	<0.050	<0.050	<0.050	0.000120		<0.050	<0.050	<0.050	<0.050
Lithium	Li	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.0050		<0.010	<0.010	<0.010	<0.010
Magnesium	Mg	1.26	1.44	2.15	2.10	3.13	1.77	2.29	2.29	1.69	1.92	0.59		1.88	1.71	1.78	1.89
Manganese	Mn	0.00403	0.00728	0.0088	0.0106	0.0137	0.00706	0.0110	0.0115	0.0092	0.0077	0.00202		0.0086	0.0070	0.0065	0.0071
Mercury	Hg	<0.000050	<0.000050		0.000057		<0.000050					<0.000050					
Molybdenum	Mo	0.00113	0.000494	<0.030	0.000461	<0.030	0.000151	<0.030	<0.030	<0.030	<0.030	0.000133		<0.030	<0.030	<0.030	<0.030
Nickel	Ni	0.00221	0.00299	<0.050	0.00754	<0.050	0.00354	<0.050	<0.050	<0.050	<0.050	0.00062		<0.050	<0.050	<0.050	<0.050
Phosphorous	P	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30	<0.30	<0.30	<0.30
Potassium	K	<2.0	<2.0	<2.0	2.9	3.6	<2.0	4.3	3.6	3.9	2.1	2.7		3.1	4.0	4.4	3.8
Selenium	Se	0.0038	0.0019	<0.20	0.0055	<0.20	0.0050	<0.20	<0.20	<0.20	<0.20	0.0034		<0.20	<0.20	<0.20	<0.20
Silicon	Si	3.80	2.98	4.08	4.97	6.41	3.61	6.14	5.12	4.97	4.32	2.35		4.47	3.75	3.21	3.45
Silver	Ag	0.000025	0.000050	<0.010	0.000560	<0.010	0.000027	<0.010	<0.010	<0.010	<0.010	0.000123		<0.010	<0.010	<0.010	<0.010
Sodium	Na	53.5	21.3	38.5	37.9	40.1	28.9	35.8	41.2	37.9	20.6	23.6		23.7	22.0	19.4	17.1
Strontium	Sr	0.0281	0.0181	0.0251	0.0171	0.0245	0.0234	0.0259	0.0290	0.0344	0.0304	0.0343		0.0427	0.0534	0.0515	0.0597
Thallium	Tl	<0.00010	<0.00010	<0.20	<0.00010	<0.20	<0.00010	<0.20	<0.20	<0.20	<0.20	<0.00010		<0.20	<0.20	<0.20	<0.20
Tin	Sn	0.00033	0.00033	<0.030	0.00039	<0.030	0.00027	<0.030	<0.030	<0.030	<0.030	<0.00010		<0.030	<0.030	<0.030	<0.030
Titanium	Ti	<0.010	0.013	<0.010	0.013	0.020	<0.010	0.018	<0.010	0.013	<0.010	<0.010		0.014	<0.010	<0.010	<0.010
Uranium	U	0.000026	<0.000010		0.000023		0.000016					0.000013					
Vanadium	V	0.0179	0.0073	<0.030	0.0144	<0.030	0.0107	<0.030	<0.030	<0.030	<0.030	0.0064		<0.030	<0.030	<0.030	<0.030
Zinc	Zn	0.0039	0.0038	<0.0050	0.0061	0.0084	0.0042	0.0069	0.0072	<0.0050	<0.0050	<0.0010		<0.0050	<0.0050	<0.0050	<0.0050
Dissolved Anions	**(mg/L)**																
Chloride	Cl	2.23	0.60		<0.50		<0.50					<0.50					
Fluoride	F	0.223	0.112		0.150		0.080					0.054					
Nutrients	**(mg/L)**																
Ammonia	N	<0.020	<0.020		0.039		<0.020					0.021	<0.020				
Nitrite/Nitrate	N	0.140	0.050		<0.050		<0.050					<0.050	<0.050				
Total Dissolved Solids	(mg/L)	188	95		140		168					52					

Note: Detection limits are mg/L unless specified otherwise...
Column 9

APPENDIX B.2
PHASE II ICP-MS AND ICP-OES DATA

COLUMN 9

Dissolved Metals	(mg/L)	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 25 DUP	Week 26
Aluminum	Al	0.220	<0.20	<0.20	<0.20	<0.20	0.0534	<0.20	<0.20	<0.20	<0.20	0.0840	0.0678	<0.20
Antimony	Sb	0.00021	<0.20	<0.20	<0.20	<0.20	0.00041	<0.20	<0.20	<0.20	<0.20	0.00035	0.00037	<0.20
Arsenic	As	0.00040	<0.20	<0.20	<0.20	<0.20	0.00041	<0.20	<0.20	<0.20	<0.20	0.00049	0.00048	<0.20
Barium	Ba	0.000788	<0.010	<0.010	<0.010	<0.010	0.00124	<0.010	<0.010	<0.010	<0.010	0.00117	0.00126	<0.010
Beryllium	Be	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00050	<0.00050	<0.0050
Bismuth	Bi	<0.00050	<0.20	<0.20	<0.20	<0.20	<0.00050	<0.20	<0.20	<0.20	<0.20	<0.00050	<0.00050	<0.20
Boron	B	0.058	<0.10	<0.10	<0.10	<0.10	0.071	<0.10	<0.10	<0.10	<0.10	0.046	0.047	<0.10
Cadmium	Cd	<0.000050	<0.010	<0.010	<0.010	<0.010	<0.000050	<0.010	<0.010	<0.010	<0.010	<0.000050	<0.000050	<0.010
Calcium	Ca	4.29	4.67	5.31	4.97	5.57	7.12	7.86	7.69	6.63	8.84	7.79	7.69	9.56
Chromium	Cr	0.00331	<0.010	<0.010	<0.010	<0.010	0.00055	<0.010	<0.010	<0.010	<0.010	0.00100	0.00079	<0.010
Cobalt	Co	0.00028	<0.010	<0.010	<0.010	<0.010	<0.00010	<0.010	<0.010	<0.010	<0.010	0.00010	<0.00010	<0.010
Copper	Cu	0.0215	0.016	0.015	0.015	0.011	0.00503	0.010	<0.010	<0.010	<0.010	0.00855	0.00958	<0.010
Iron	Fe	0.877	0.532	0.485	0.457	0.412	0.096	0.075	0.051	0.232	0.116	0.246	0.182	0.055
Lead	Pb	0.000682	<0.050	<0.050	<0.050	<0.050	0.000169	<0.050	<0.050	<0.050	<0.050	0.000259	0.000363	<0.050
Lithium	Li	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.010	0.013	<0.010	<0.010	<0.0050	<0.0050	<0.010
Magnesium	Mg	1.90	1.82	2.02	1.93	1.92	2.61	2.79	2.68	2.63	3.01	2.72	2.64	3.37
Manganese	Mn	0.00640	0.0057	0.0058	0.0055	0.0054	0.00428	0.0070	<0.0050	<0.0050	0.0055	0.00477	0.00458	<0.0050
Mercury	Hg	0.000660					<0.000050					0.000095	-	
Molybdenum	Mo	0.000103	<0.030	<0.030	<0.030	<0.030	0.000128	<0.030	<0.030	<0.030	<0.030	0.000099	0.000092	<0.030
Nickel	Ni	0.00376	<0.050	<0.050	<0.050	<0.050	0.00133	<0.050	<0.050	<0.050	<0.050	0.00150	0.00144	<0.050
Phosphorous	P	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Potassium	K	3.8	4.1	4.6	3.8	4.3	5.2	4.7	4.5	4.3	4.8	5.1	5.0	5.2
Selenium	Se	0.0018	<0.20	<0.20	<0.20	<0.20	0.0018	<0.20	<0.20	<0.20	<0.20	0.0017	0.0017	<0.20
Silicon	Si	3.14	3.16	2.87	2.93	2.88	2.75	2.79	2.52	2.54	2.50	2.66	2.53	2.54
Silver	Ag	0.000022	<0.010	<0.010	<0.010	<0.010	<0.000010	<0.010	<0.010	<0.010	<0.010	0.000012	0.000014	<0.010
Sodium	Na	16.3	15.5	14.1	12.2	12.0	15.2	15.4	14.6	11.3	11.8	9.0	9.1	10.9
Strontium	Sr	0.0597	0.0751	0.0726	0.0804	0.0886	0.117	0.131	0.125	0.108	0.140	0.0996	0.103	0.158
Thallium	Tl	<0.00010	<0.20	<0.20	<0.20	<0.20	<0.00010	<0.50	<0.20	<0.20	<0.20	<0.00010	<0.00010	<0.20
Tin	Sn	0.00035	<0.030	<0.030	<0.030	<0.030	0.00010	<0.030	<0.030	<0.030	<0.030	0.00010	<0.00010	<0.030
Titanium	Ti	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	U	<0.000010					0.000016					0.000011	0.000012	
Vanadium	V	0.0038	<0.030	<0.030	<0.030	<0.030	0.0042	<0.030	<0.030	<0.030	0.040	0.0024	0.0024	<0.030
Zinc	Zn	0.0030	<0.0050	<0.0050	<0.0050	<0.0050	0.0013	<0.0050	<0.0050	<0.0050	<0.0050	0.0013	0.0015	<0.0050
Dissolved Anions	**(mg/L)**													
Chloride	Cl	<0.50					<0.50					<0.50		
Fluoride	F	0.028					<0.020					<0.020		
Nutrients	**(mg/L)**													
Ammonia	N	<0.020					0.024					<0.020		
Nitrite/Nitrate	N	0.0603					0.0123					0.0086		
Total Dissolved Solids	(mg/L)	89					103					64		

Note: Detection limits are mg/L unl
Column 9

APPENDIX B.2
PHASE II ICP-MS AND ICP-OES DATA

COLUMN 10

Dissolved Metals	(mg/L)	Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 12 DUP	Week 13	Week 14
Aluminum	Al	0.197	0.362	0.28	0.132	<0.20	0.197	<0.20	<0.20	<0.20	<0.20	0.0756	<0.20	<0.20	<0.20	<0.20	<0.20
Antimony	Sb	0.00071	0.00080	<0.20	0.00039	<0.20	0.00025	<0.20	<0.20	<0.20	<0.20	0.00024	<0.20	<0.20	<0.20	<0.20	<0.20
Arsenic	As	0.00149	0.00175	<0.20	0.00041	<0.20	0.00042	<0.20	<0.20	<0.20	<0.20	0.00039	<0.20	<0.20	<0.20	<0.20	<0.20
Barium	Ba	0.000582	0.00109	<0.010	0.000349	<0.010	0.000500	<0.010	<0.010	<0.010	<0.010	0.000321	<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	Be	<0.00050	<0.00050	<0.0050	<0.00050	<0.0050	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Bismuth	Bi	<0.00050	<0.00050	<0.20	<0.00050	<0.20	<0.00050	<0.20	<0.20	<0.20	<0.20	<0.00050	<0.20	<0.20	<0.20	<0.20	<0.20
Boron	B	0.642	0.419	0.25	0.170	0.25	0.109	<0.10	<0.10	<0.10	<0.10	0.072	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	Cd	<0.000050	<0.000050	<0.010	<0.000050	<0.010	<0.000050	<0.010	<0.010	<0.010	<0.010	<0.000050	<0.010	<0.010	<0.010	<0.010	<0.010
Calcium	Ca	0.743	0.409	0.310	0.184	0.703	0.183	0.183	0.186	0.148	0.124	0.177	0.165	0.133	0.141	0.120	0.136
Chromium	Cr	0.00516	0.00978	<0.010	0.00312	<0.010	0.00760	<0.010	<0.010	<0.010	<0.010	0.00171	<0.010	<0.010	<0.010	<0.010	<0.010
Cobalt	Co	0.00023	0.00054	<0.010	0.00017	<0.010	0.00026	<0.010	<0.010	<0.010	<0.010	0.00010	<0.010	<0.010	<0.010	<0.010	<0.010
Copper	Cu	0.0104	0.0250	0.016	0.00925	<0.010	0.0136	<0.010	<0.010	<0.010	<0.010	0.00491	0.012	<0.010	<0.010	<0.010	0.010
Iron	Fe	0.324	0.697	0.668	0.260	0.275	0.370	0.268	0.186	0.249	0.275	0.140	0.325	0.254	0.228	0.229	0.294
Lead	Pb	0.000864	0.00113	<0.050	0.000454	<0.050	0.000606	<0.050	<0.050	<0.050	<0.050	0.000212	<0.050	<0.050	<0.050	<0.050	<0.050
Lithium	Li	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010
Magnesium	Mg	0.71	0.89	0.80	0.37	1.38	0.47	0.35	0.31	0.32	0.34	0.24	0.41	0.31	0.31	0.28	0.36
Manganese	Mn	0.00281	0.00654	0.0059	0.00224	<0.0050	0.00342	<0.0050	<0.0050	<0.0050	<0.0050	0.00129	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Mercury	Hg	<0.000050	<0.000050		<0.000050		<0.000050					<0.000050					
Molybdenum	Mo	0.00120	0.000468	<0.030	0.000147	<0.030	0.000101	<0.030	<0.030	<0.030	<0.030	0.000087	<0.030	<0.030	<0.030	<0.030	<0.030
Nickel	Ni	0.00273	0.00563	<0.050	0.00194	<0.050	0.00326	<0.050	<0.050	<0.050	<0.050	0.00126	<0.050	<0.050	<0.050	<0.050	<0.050
Phosphorous	P	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Potassium	K	3.5	<2.0	2.5	<2.0	2.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Selenium	Se	0.0010	<0.0010	<0.20	<0.0010	<0.20	<0.0010	<0.20	<0.20	<0.20	<0.20	<0.0010	<0.20	<0.20	<0.20	<0.20	<0.20
Silicon	Si	5.74	4.77	2.99	1.81	2.87	1.93	2.11	1.91	1.85	1.68	1.29	2.01	1.64	1.62	1.60	1.70
Silver	Ag	0.000011	0.000064	<0.010	0.000010	<0.010	0.000019	<0.010	<0.010	<0.010	<0.010	0.000077	<0.010	<0.010	<0.010	<0.010	<0.010
Sodium	Na	41.2	26.6	18.4	12.8	19.7	11.8	12.3	13.2	10.3	8.1	8.6	9.9	9.1	9.1	8.3	7.1
Strontium	Sr	0.0156	0.00806	0.0074	0.00393	0.0098	0.00393	<0.0050	<0.0050	<0.0050	<0.0050	0.00430	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Thallium	Tl	<0.00010	<0.00010	<0.20	<0.00010	<0.20	<0.00010	<0.20	<0.20	<0.20	<0.20	<0.00010	<0.20	<0.20	<0.20	<0.20	<0.20
Tin	Sn	0.00072	0.00059	<0.030	0.00024	<0.030	0.00033	<0.030	<0.030	<0.030	<0.030	0.00014	<0.030	<0.030	<0.030	<0.030	<0.030
Titanium	Ti	<0.010	0.013	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium	U	0.000011	0.000015		<0.000010		<0.000010					<0.000010					
Vanadium	V	0.0233	0.0148	<0.030	0.0053	<0.030	0.0043	<0.030	<0.030	<0.030	<0.030	0.0037	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc	Zn	0.0043	0.0039	<0.0050	0.0018	<0.0050	0.0023	<0.0050	<0.0050	<0.0050	<0.0050	0.0010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Dissolved Anions	**(mg/L)**																
Chloride	Cl	2.21	0.51		<0.50		<0.50					<0.50					
Fluoride	F	0.204	0.182		0.056		0.026					0.026					
Nutrients	**(mg/L)**																
Ammonia	N	<0.020	<0.020		<0.020		<0.020					<0.020					
Nitrite/Nitrate	N	0.167	0.051		<0.050		<0.050					<0.050					
Total Dissolved Solids	(mg/L)	134	118		<50		70					<40					

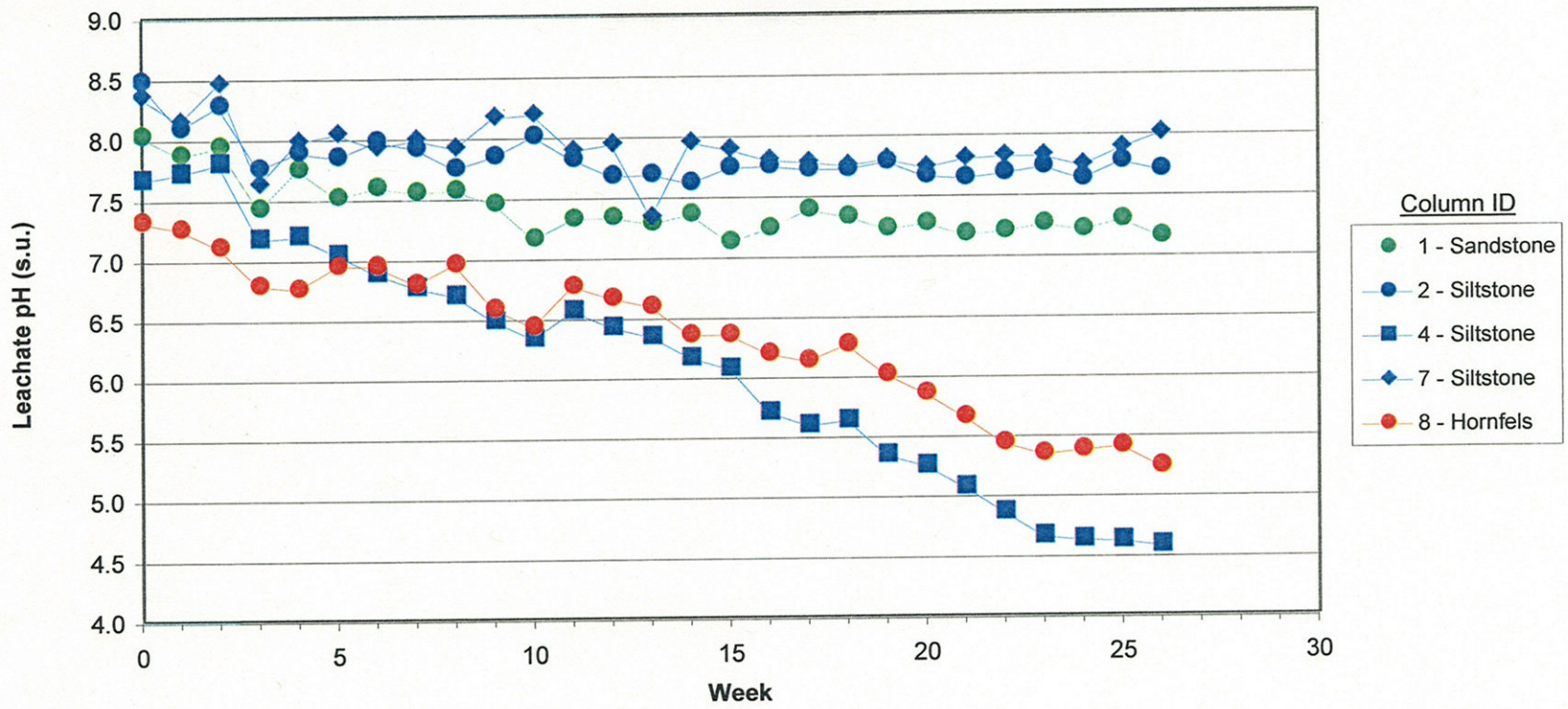
Note: Detection limits are mg/L unless specified otherwise...
Column 10

APPENDIX B.2
PHASE II ICP-MS AND ICP-OES DATA

COLUMN 10

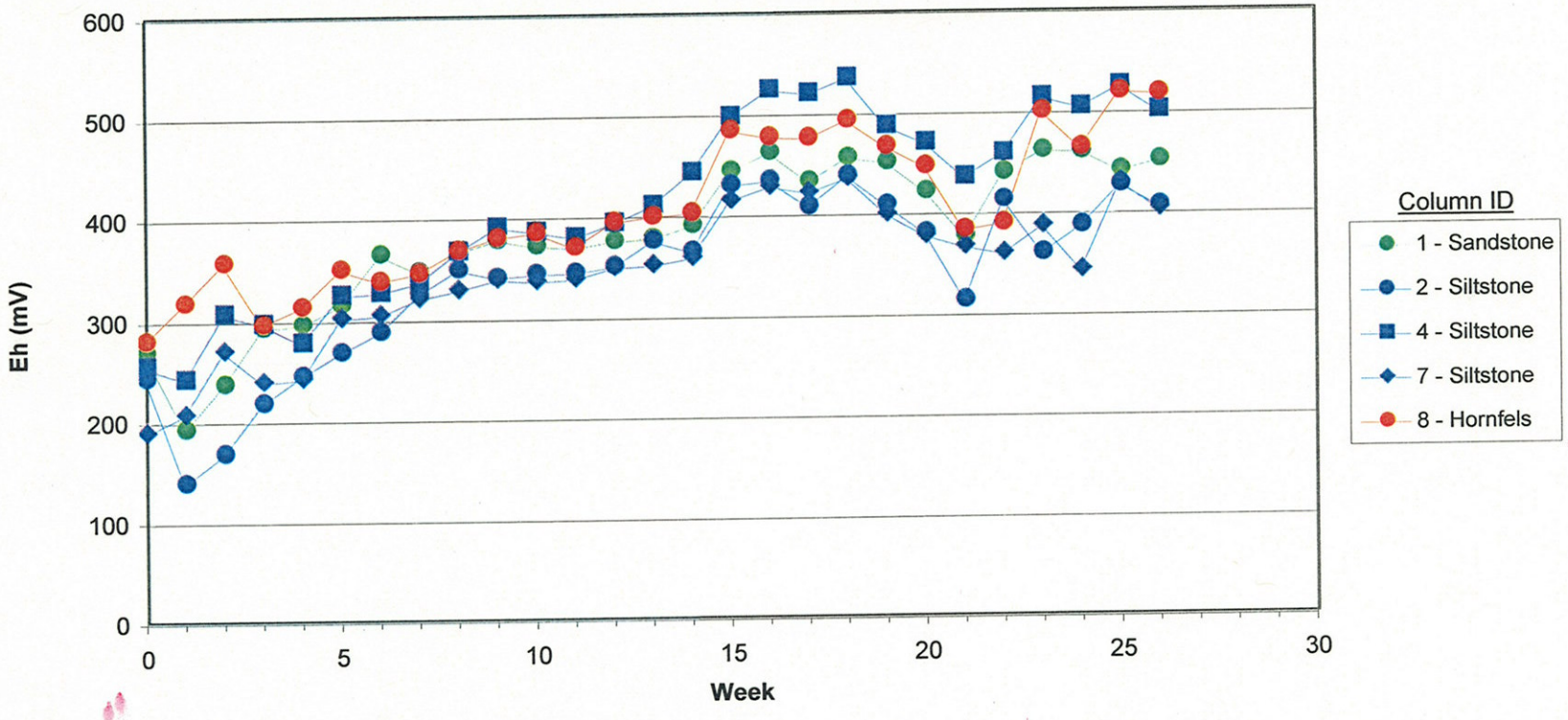
Dissolved Metals	(mg/L)	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 25 DUP	Week 26
Aluminum	Al	0.134	<0.20	<0.20	<0.20	<0.20	0.0335	<0.20	<0.20	<0.20	<0.20	0.126		<0.20
Antimony	Sb	0.00015	<0.20	<0.20	<0.20	<0.20	0.00019	<0.20	<0.20	<0.20	<0.20	0.00015		<0.20
Arsenic	As	0.00017	<0.20	<0.20	<0.20	<0.20	0.00032	<0.20	<0.20	<0.20	<0.20	0.00031		<0.20
Barium	Ba	0.000364	<0.010	<0.010	<0.010	<0.010	0.000386	<0.010	<0.010	<0.010	<0.010	0.000367		<0.010
Beryllium	Be	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00050		<0.0050
Bismuth	Bi	<0.00050	<0.20	<0.20	<0.20	<0.20	<0.00050	<0.20	<0.20	<0.20	<0.20	<0.00050		<0.20
Boron	B	0.045	<0.10	<0.10	<0.10	<0.10	0.109	0.11	0.12	<0.10	<0.10	0.053		<0.10
Cadmium	Cd	<0.000050	<0.010	<0.010	<0.010	<0.010	<0.000050	<0.010	<0.010	<0.010	<0.010	<0.000050		<0.010
Calcium	Ca	0.171	0.169	0.196	0.210	0.228	0.870	0.762	0.752	0.408	0.798	0.338		0.946
Chromium	Cr	0.00382	<0.010	<0.010	<0.010	<0.010	0.00071	<0.010	<0.010	<0.010	<0.010	0.00277		<0.010
Cobalt	Co	0.00021	<0.010	<0.010	<0.010	<0.010	<0.00010	<0.010	<0.010	<0.010	<0.010	0.00016		<0.010
Copper	Cu	0.00931	0.011	<0.010	<0.010	<0.010	0.00374	<0.010	<0.010	<0.010	<0.010	0.00825		<0.010
Iron	Fe	0.327	0.284	0.176	0.252	0.198	0.061	0.080	0.080	0.293	0.157	0.238		0.148
Lead	Pb	0.000366	<0.050	<0.050	<0.050	<0.050	0.000086	<0.050	<0.050	<0.050	<0.050	0.000284		<0.050
Lithium	Li	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.010	0.011	<0.010	<0.010	<0.0050		<0.010
Magnesium	Mg	0.36	0.37	0.26	0.38	0.30	0.67	0.59	0.56	0.56	0.69	0.44		0.82
Manganese	Mn	0.00251	<0.0050	<0.0050	<0.0050	<0.0050	0.000762	<0.0050	<0.0050	<0.0050	<0.0050	0.00207		<0.0050
Mercury	Hg	0.000150					<0.000050					0.000128		
Molybdenum	Mo	<0.000050	<0.030	<0.030	<0.030	<0.030	0.000057	<0.030	<0.030	<0.030	<0.030	<0.000050		<0.030
Nickel	Ni	0.00245	<0.050	<0.050	<0.050	<0.050	0.00088	<0.050	<0.050	<0.050	<0.050	0.00201		<0.050
Phosphorous	P	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		<0.30
Potassium	K	<2.0	<2.0	<2.0	<2.0	<2.0	3.1	2.6	2.2	2.0	2.3	<2.0		2.6
Selenium	Se	<0.0010	<0.20	<0.20	<0.20	<0.20	<0.0010	<0.20	<0.20	<0.20	<0.20	<0.0010		<0.20
Silicon	Si	1.31	1.71	1.51	1.88	1.91	2.20	2.35	2.17	2.08	1.90	1.81		1.87
Silver	Ag	<0.000010	<0.010	<0.010	<0.010	<0.010	<0.000010	<0.010	<0.010	<0.010	<0.010	<0.000010		<0.010
Sodium	Na	6.8	8.0	9.3	9.6	9.7	15.1	12.9	11.8	9.0	9.5	6.3		8.7
Strontium	Sr	0.00359	<0.0050	<0.0050	0.0055	0.0058	0.0227	0.0206	0.0190	0.0107	0.0206	0.00865		0.0257
Thallium	Tl	<0.00010	<0.20	<0.20	<0.20	<0.20	<0.00010	<0.50	<0.20	<0.20	<0.20	<0.00010		<0.20
Tin	Sn	0.00025	<0.030	<0.030	<0.030	<0.030	<0.00010	<0.030	<0.030	<0.030	<0.030	0.00019		<0.030
Titanium	Ti	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		<0.010
Uranium	U	<0.000010					<0.000010					<0.000010		
Vanadium	V	0.0021	<0.030	<0.030	<0.030	<0.030	0.0042	<0.030	<0.030	<0.030	<0.030	0.0030		<0.030
Zinc	Zn	0.0017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0050	<0.0050	<0.0050	<0.0050	0.0013		<0.0050
Dissolved Anions	**(mg/L)**													
Chloride	Cl	<0.50					<0.50					<0.50	<0.50	
Fluoride	F	<0.020					<0.020					<0.020	<0.020	
Nutrients	**(mg/L)**													
Ammonia	N	<0.020					<0.020					<0.020		
Nitrite/Nitrate	N	0.0886					0.0128					<0.0050		
Total Dissolved Solids	(mg/L)	<36					60					<29		

Note: Detection limits are mg/L unl
Column 10



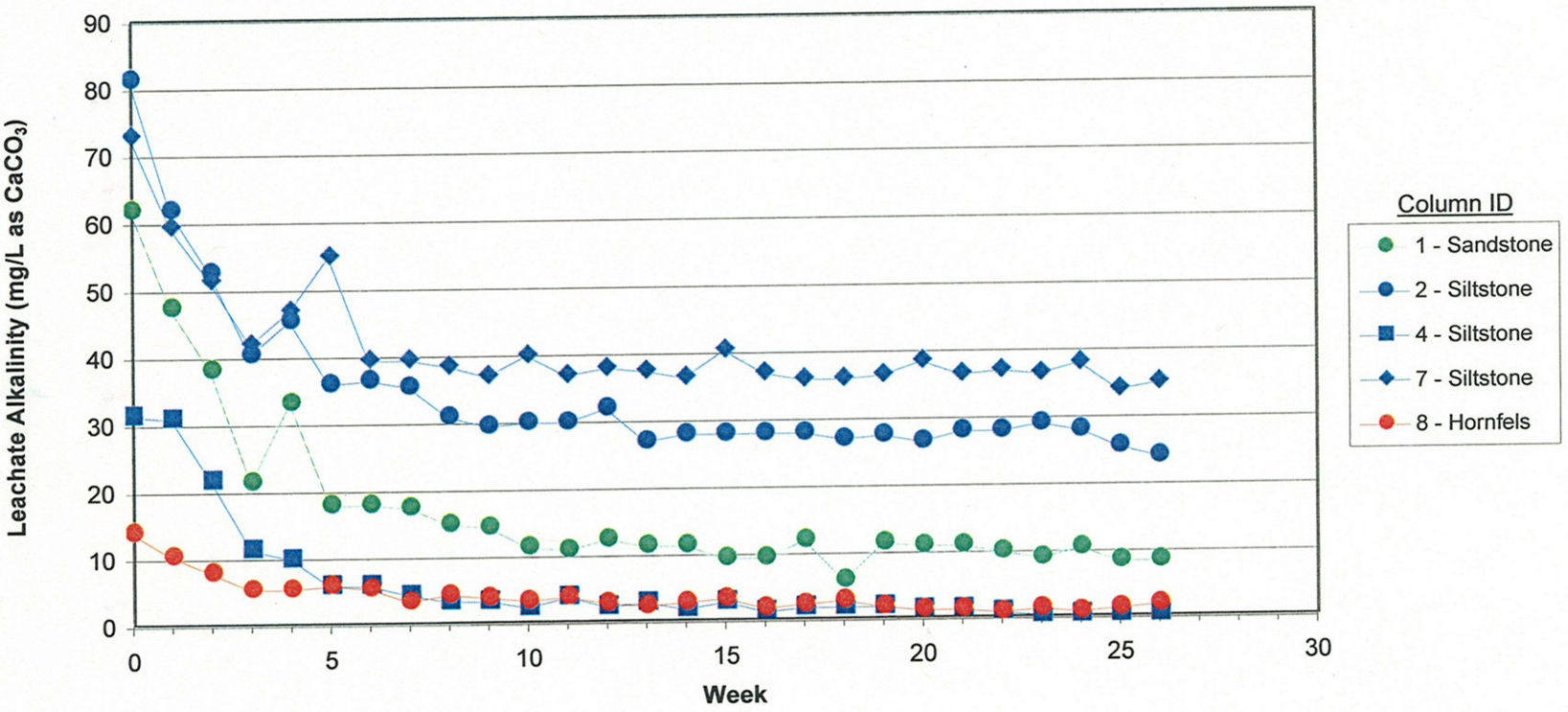
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Leachate pH**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-1**	



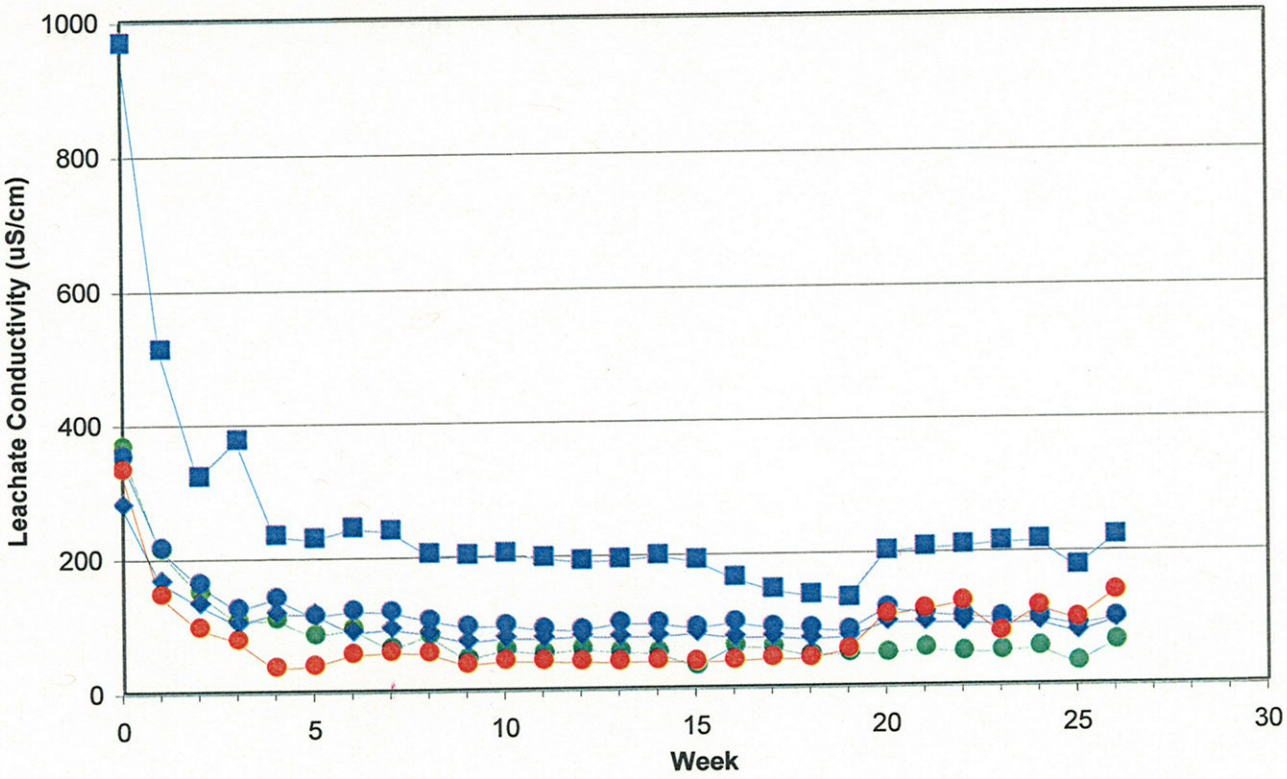
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Redox**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2.-2**	



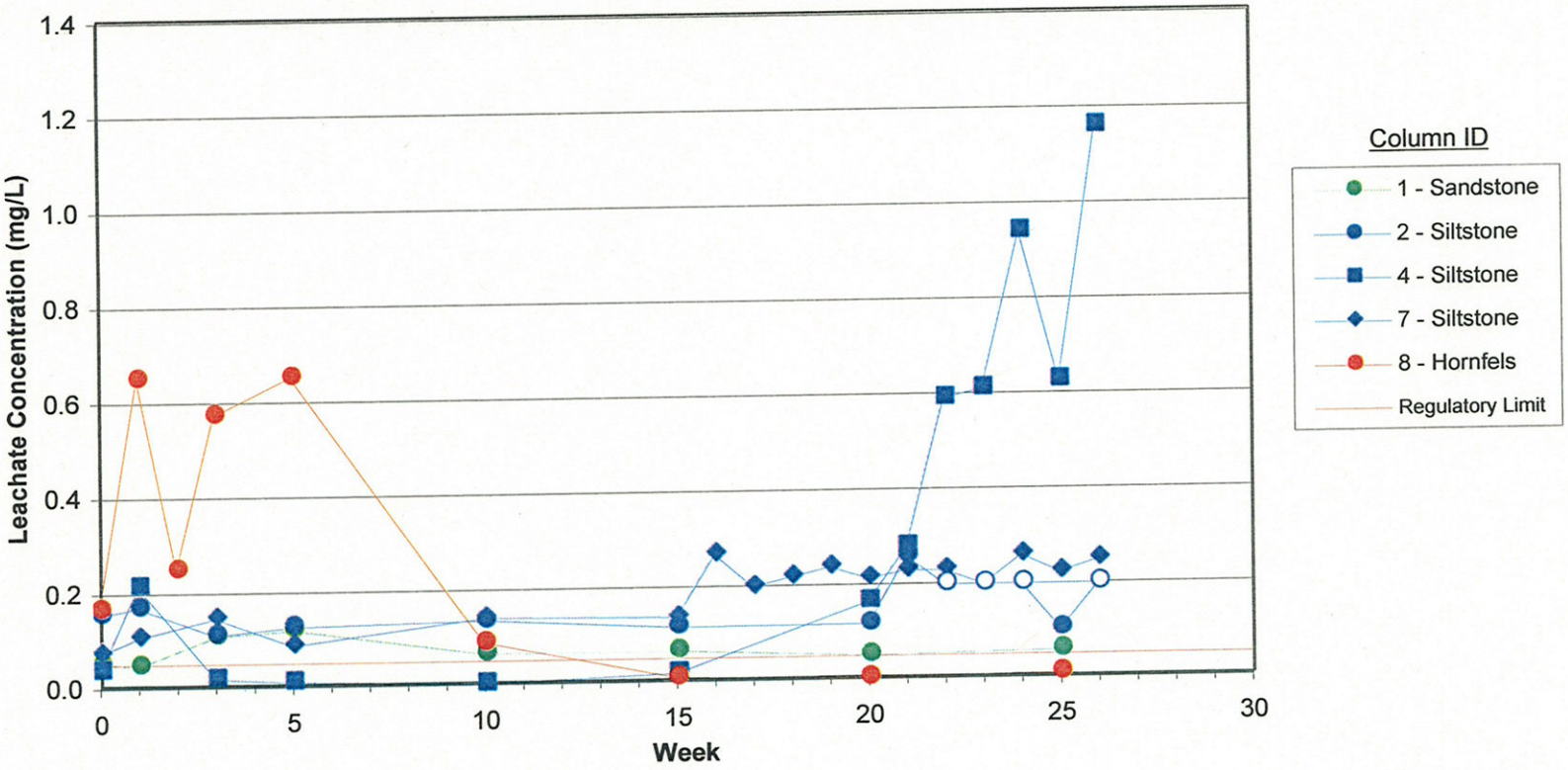
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Alkalinity**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-3**	



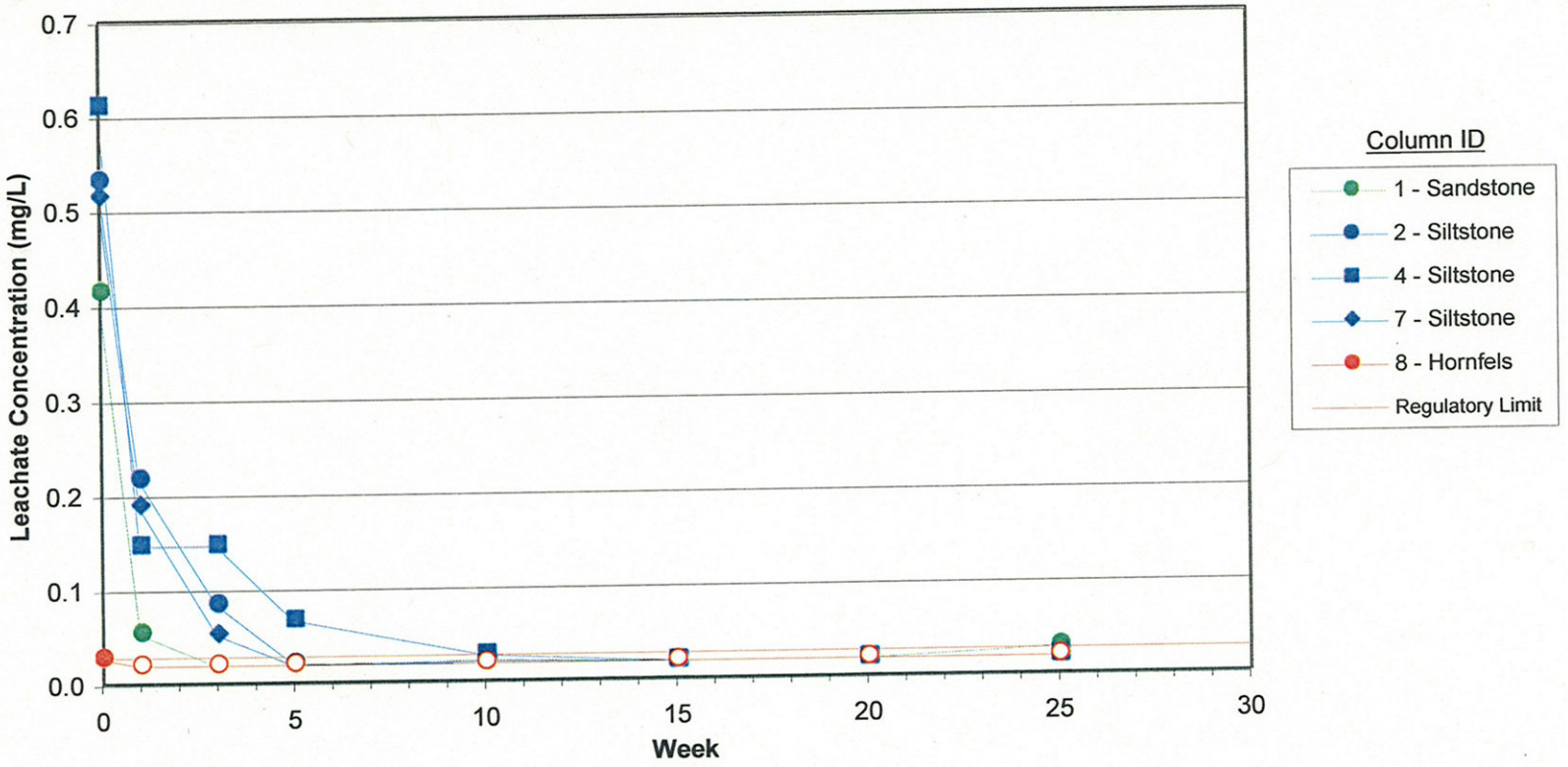
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Conductivity**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-4**	



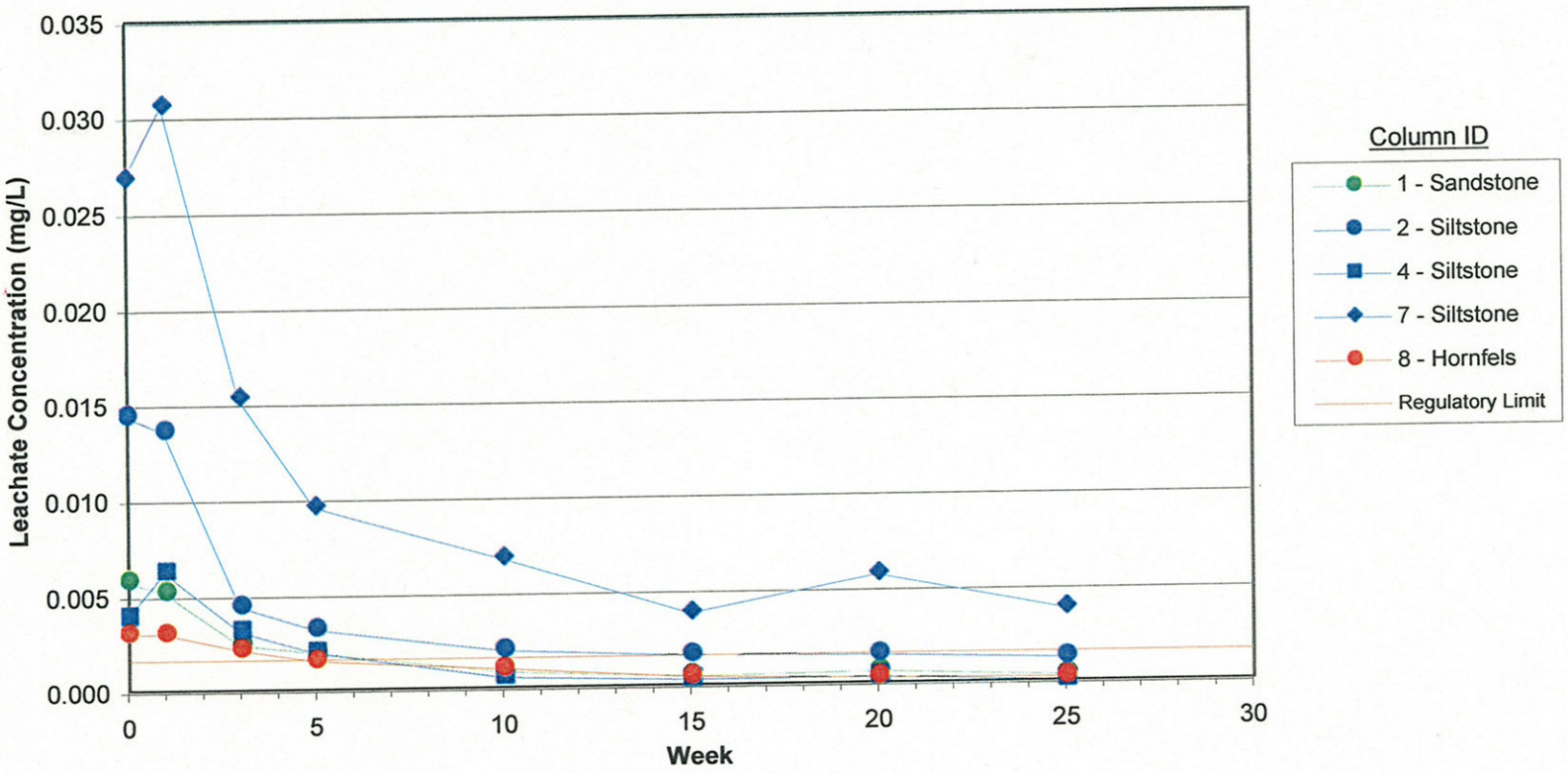
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Aluminum**		
	DRAWN	TB	DATE April 2005	JOB NO. 043-1055
	CHECKED	VR	SCALE na	DWG. NO.
	REVIEWED	ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-5**



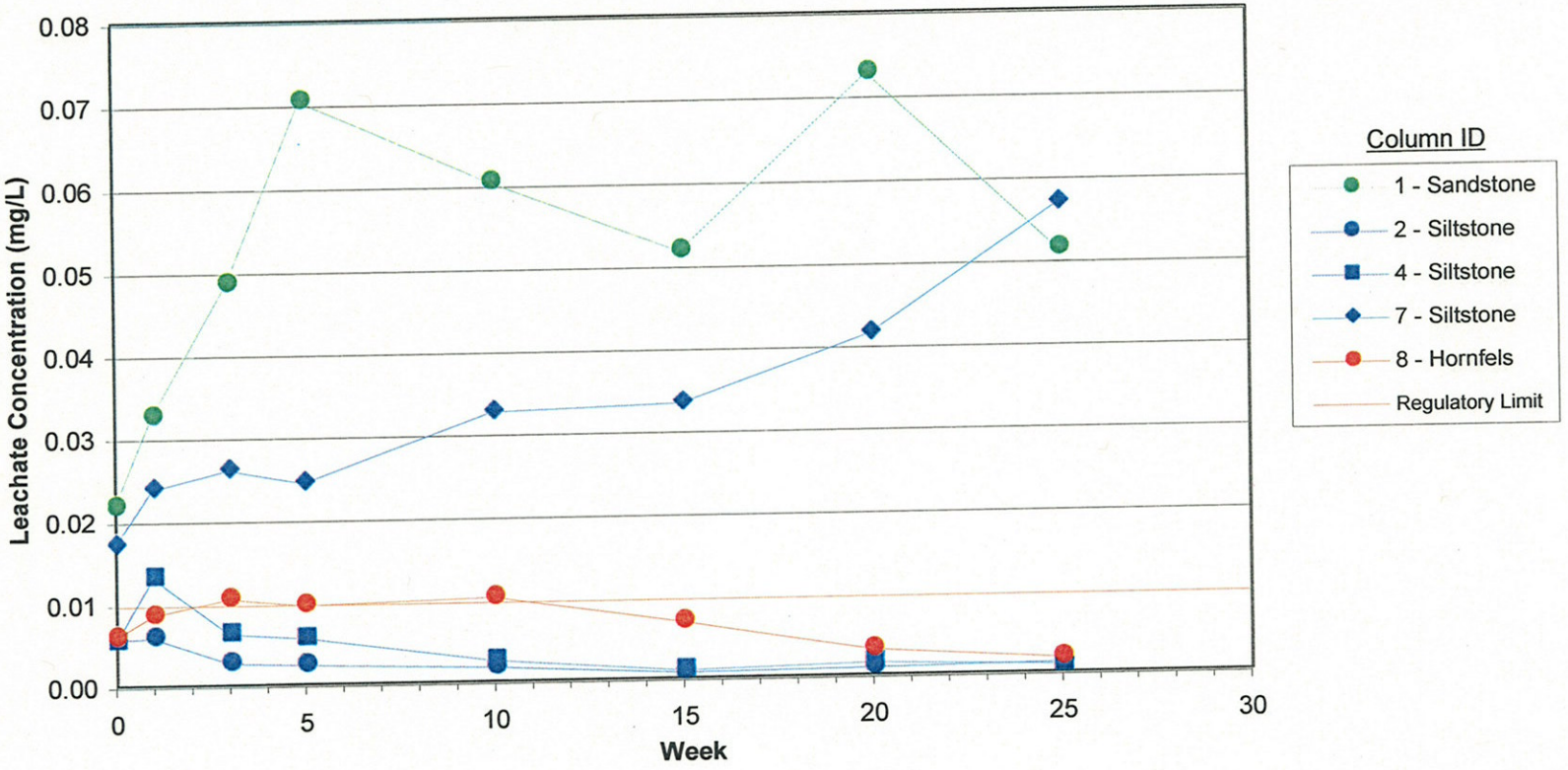
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Ammonia**		
	DRAWN	TB	DATE	April 2005	JOB NO.	043-1055
	CHECKED	VR	SCALE	na	DWG. NO.	
	REVIEWED	ML	FILE NO.	Phase I I- Kinetic Cntry Week26.xls	FIGURE NO.	**B.2-6**



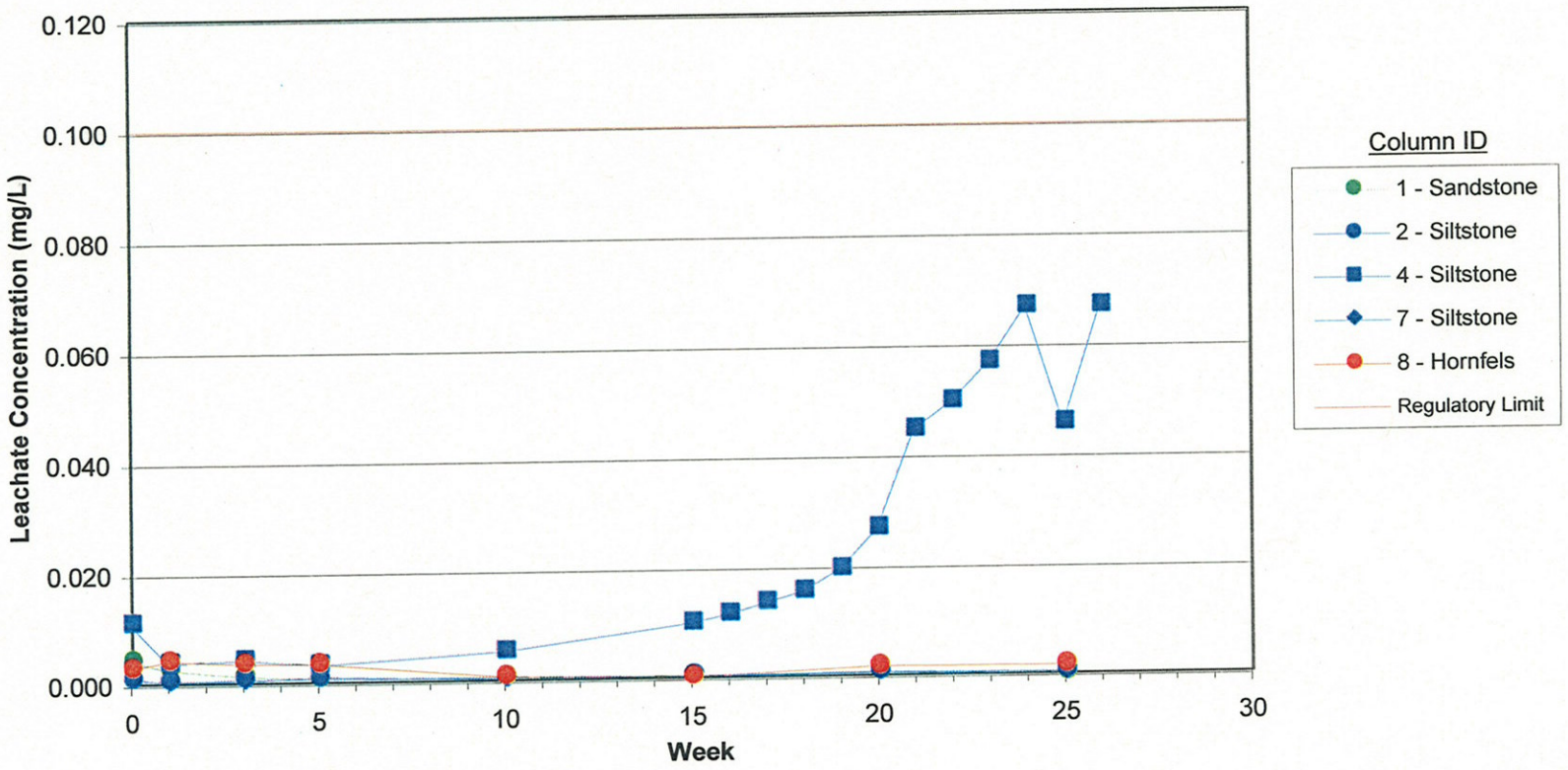
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Antimony**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-7**	



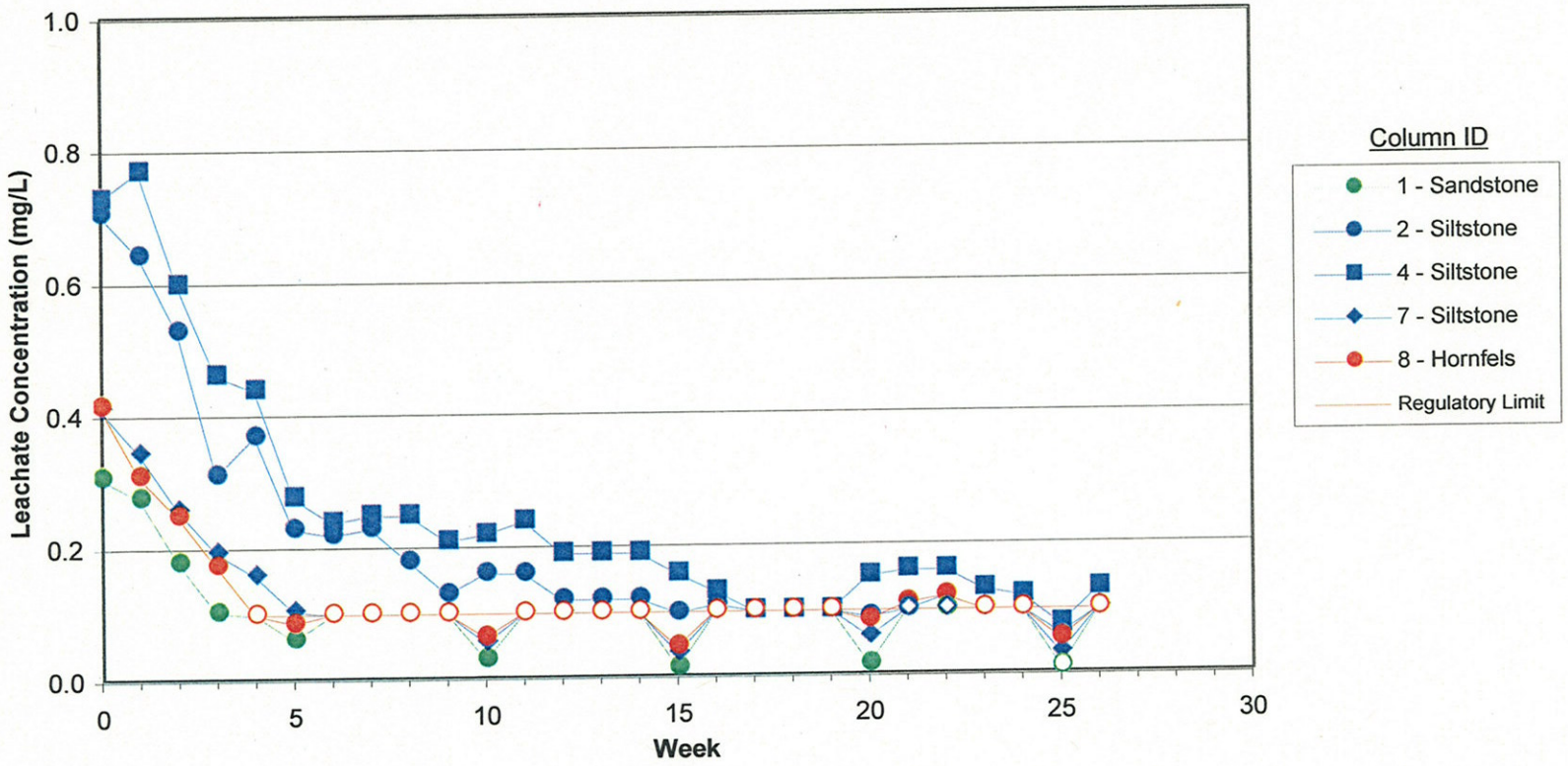
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Arsenic**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-8**	



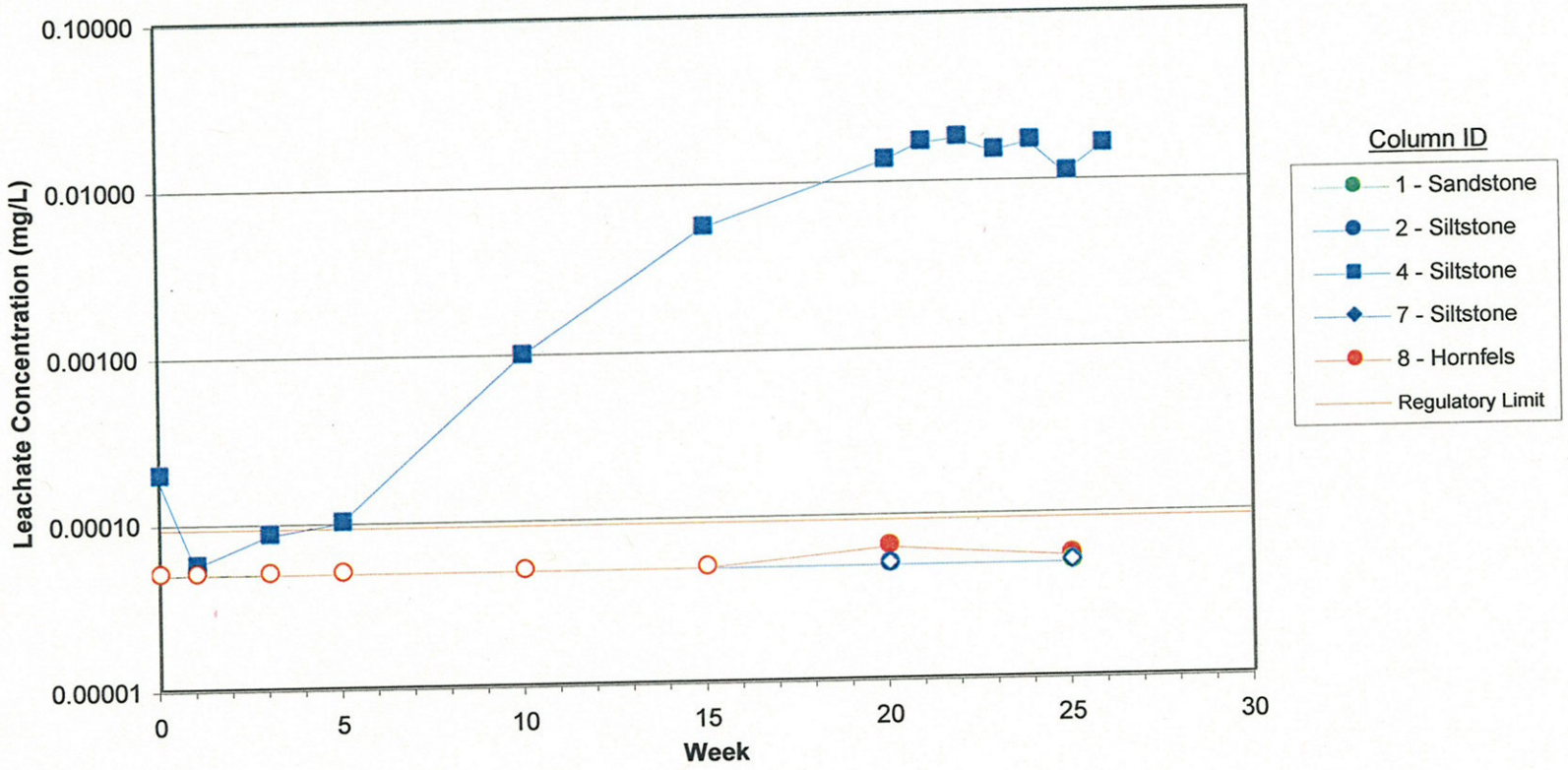
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Barium**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-9**	



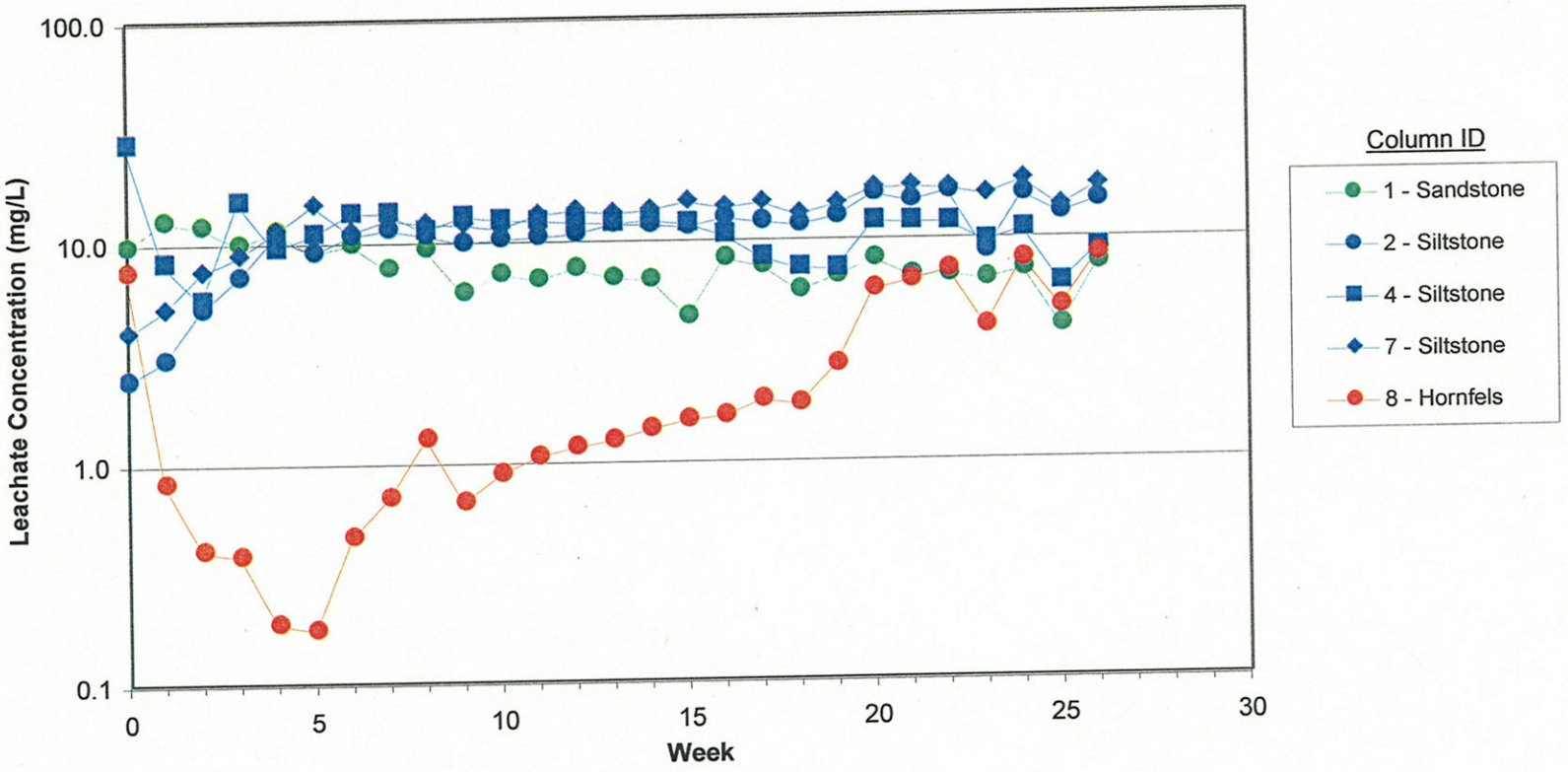
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Boron**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-10**	



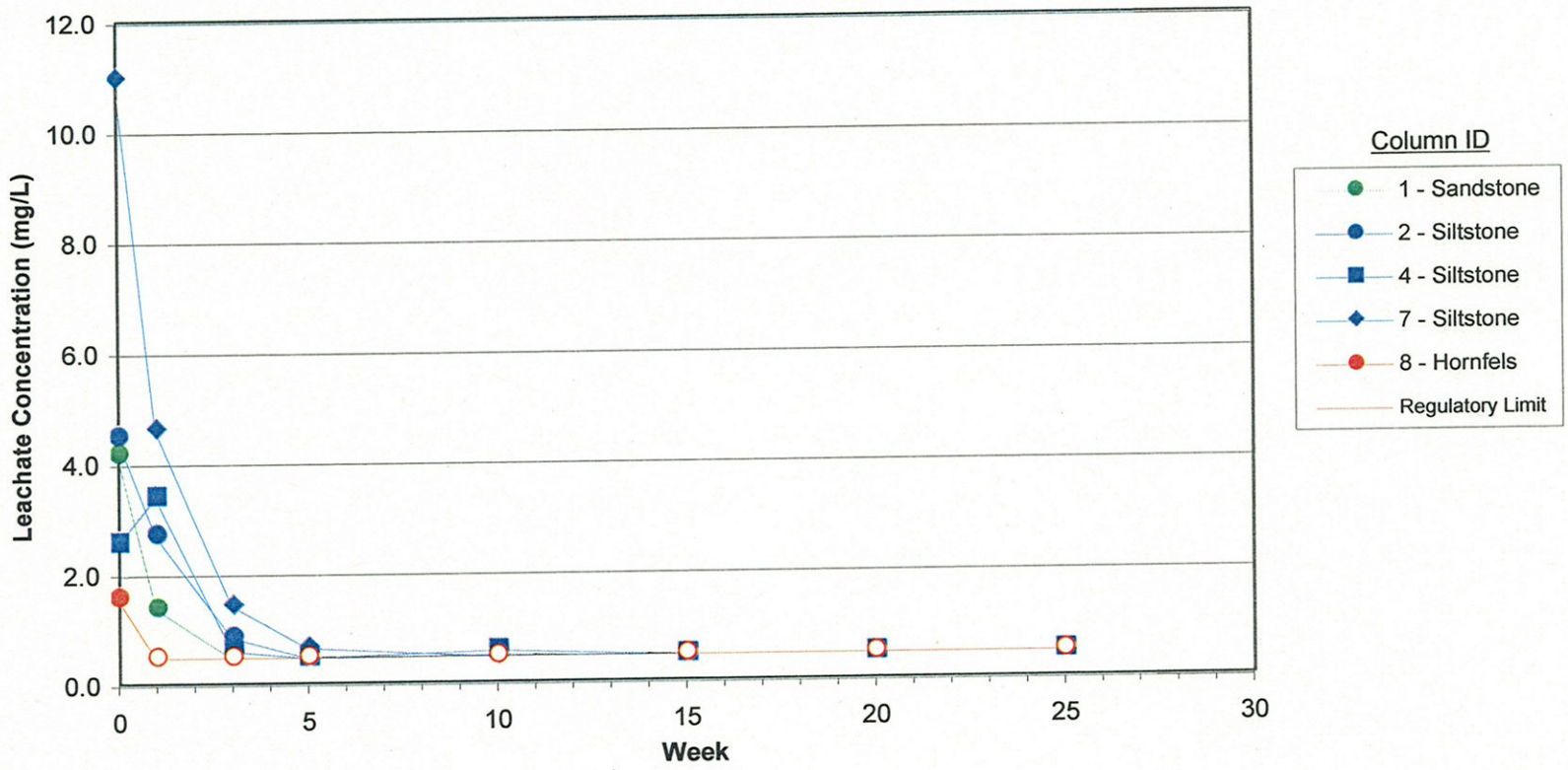
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Cadmium**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-11**	



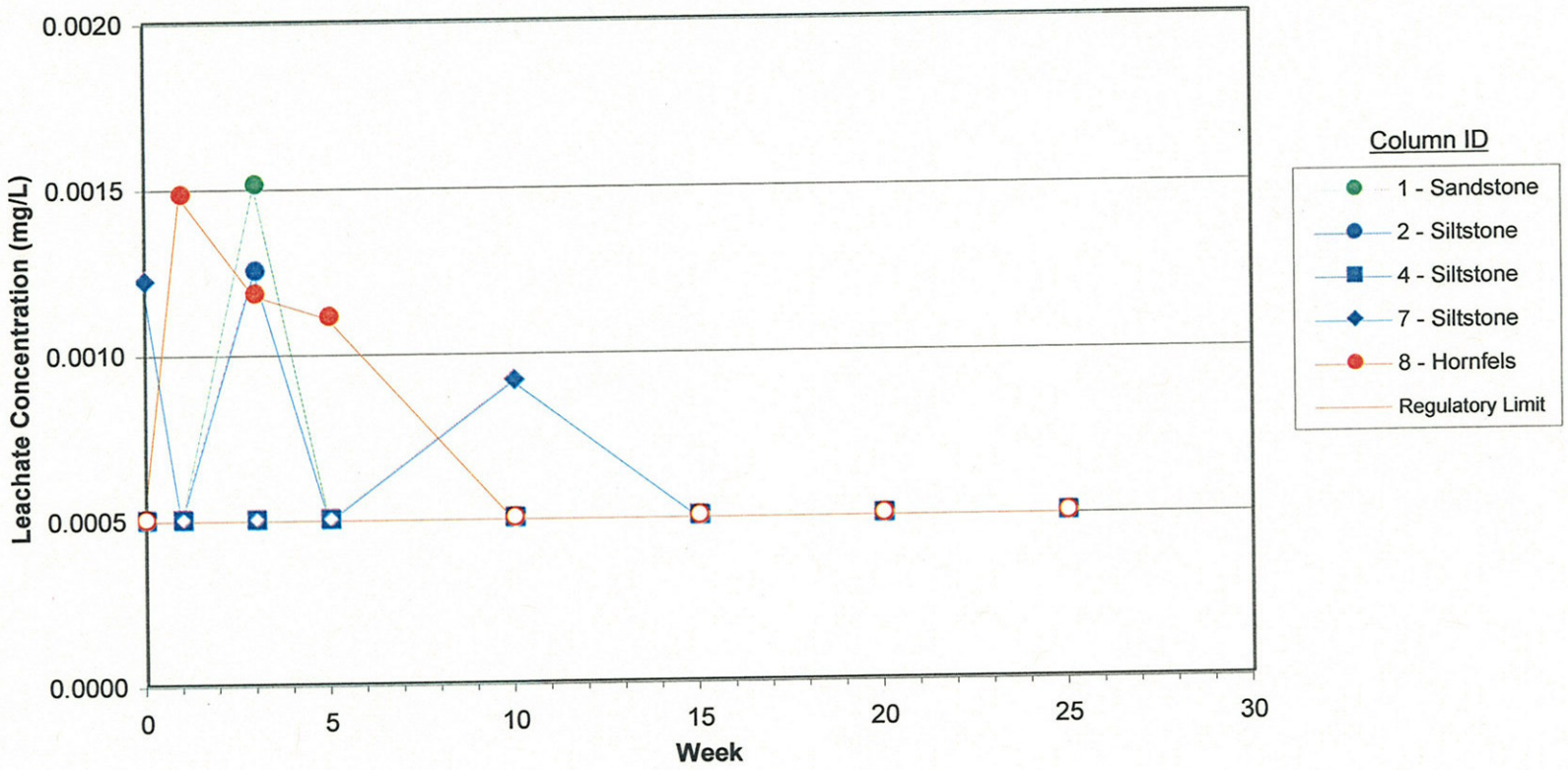
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Calcium**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-12**	



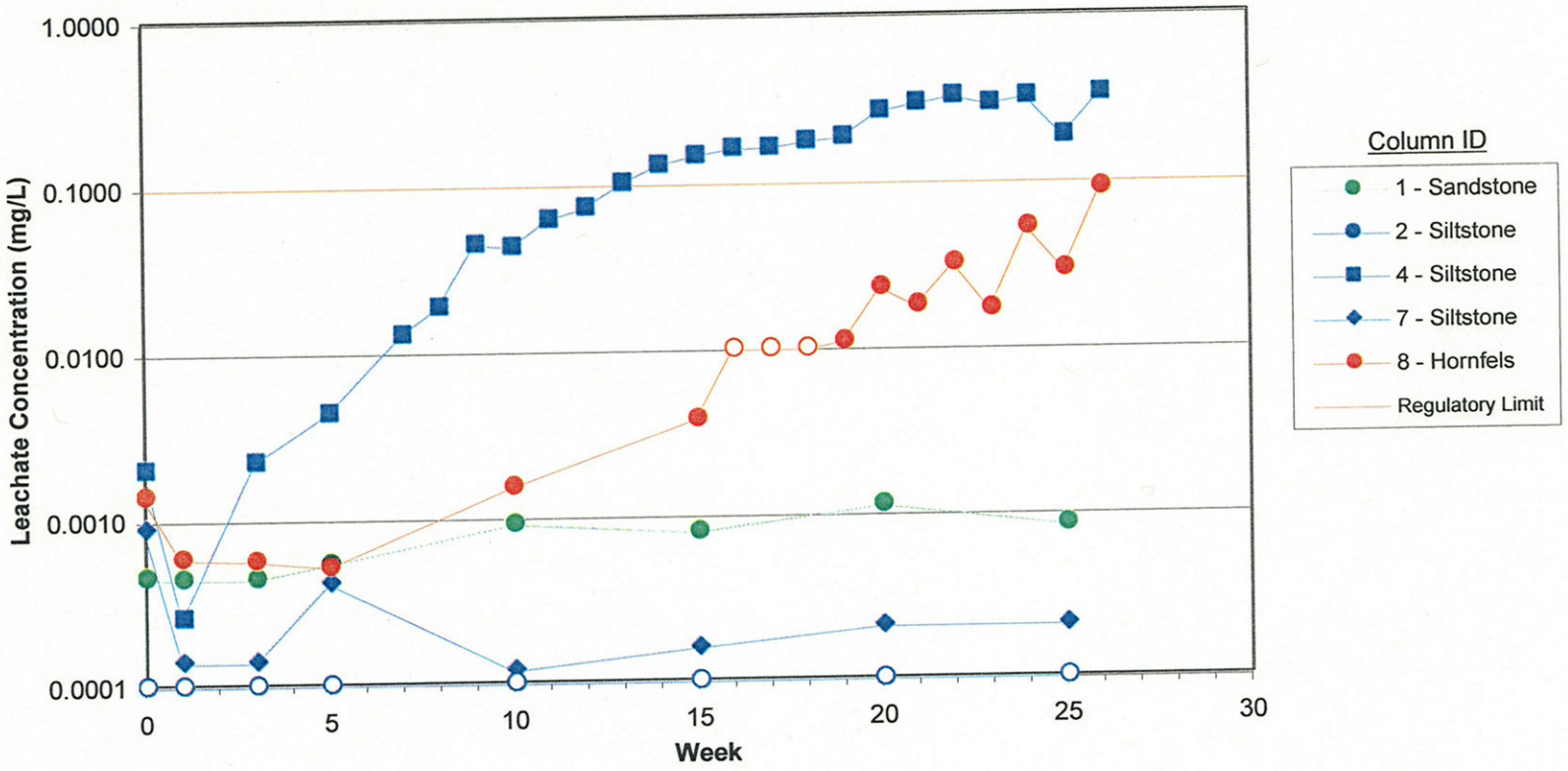
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Chloride**		
	DRAWN	TB	DATE	April 2005	JOB NO.	043-1055
	CHECKED	VR	SCALE	na	DWG. NO.	
	REVIEWED	ML	FILE NO.	Phase I I- Kinetic Cntry Week26.xls	FIGURE NO.	B.2-13



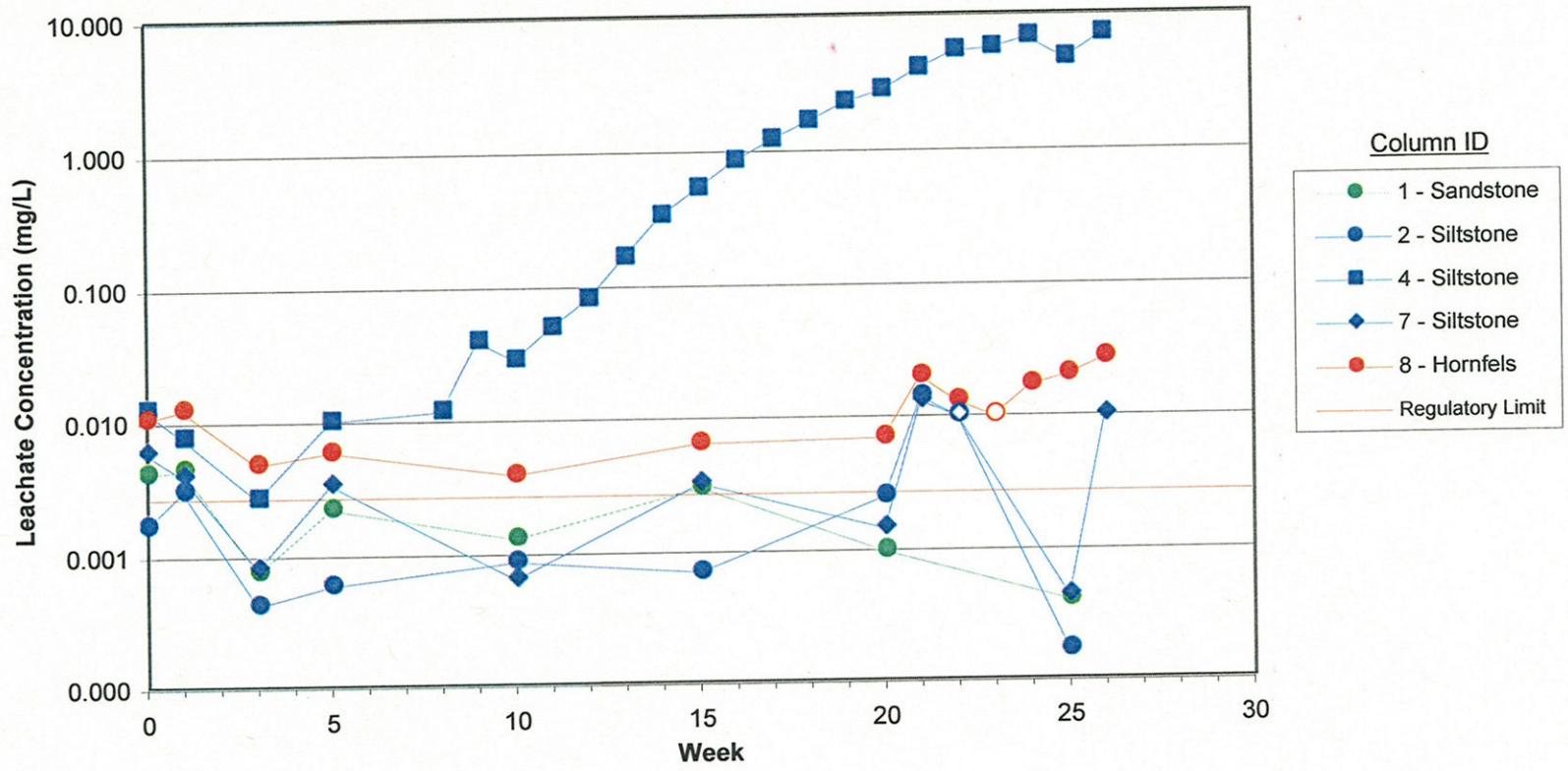
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Chromium**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-14**	



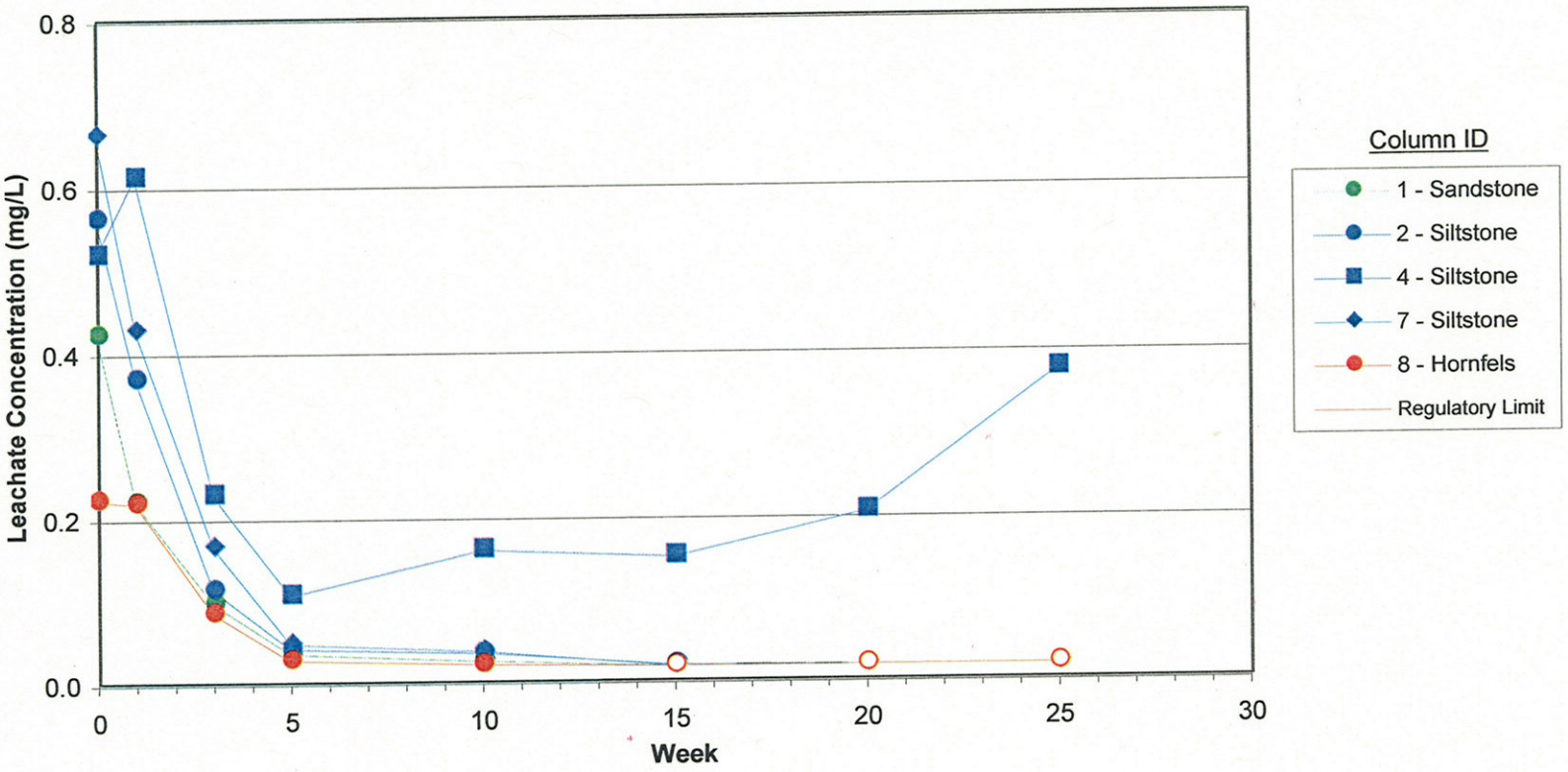
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Cobalt**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-15**	



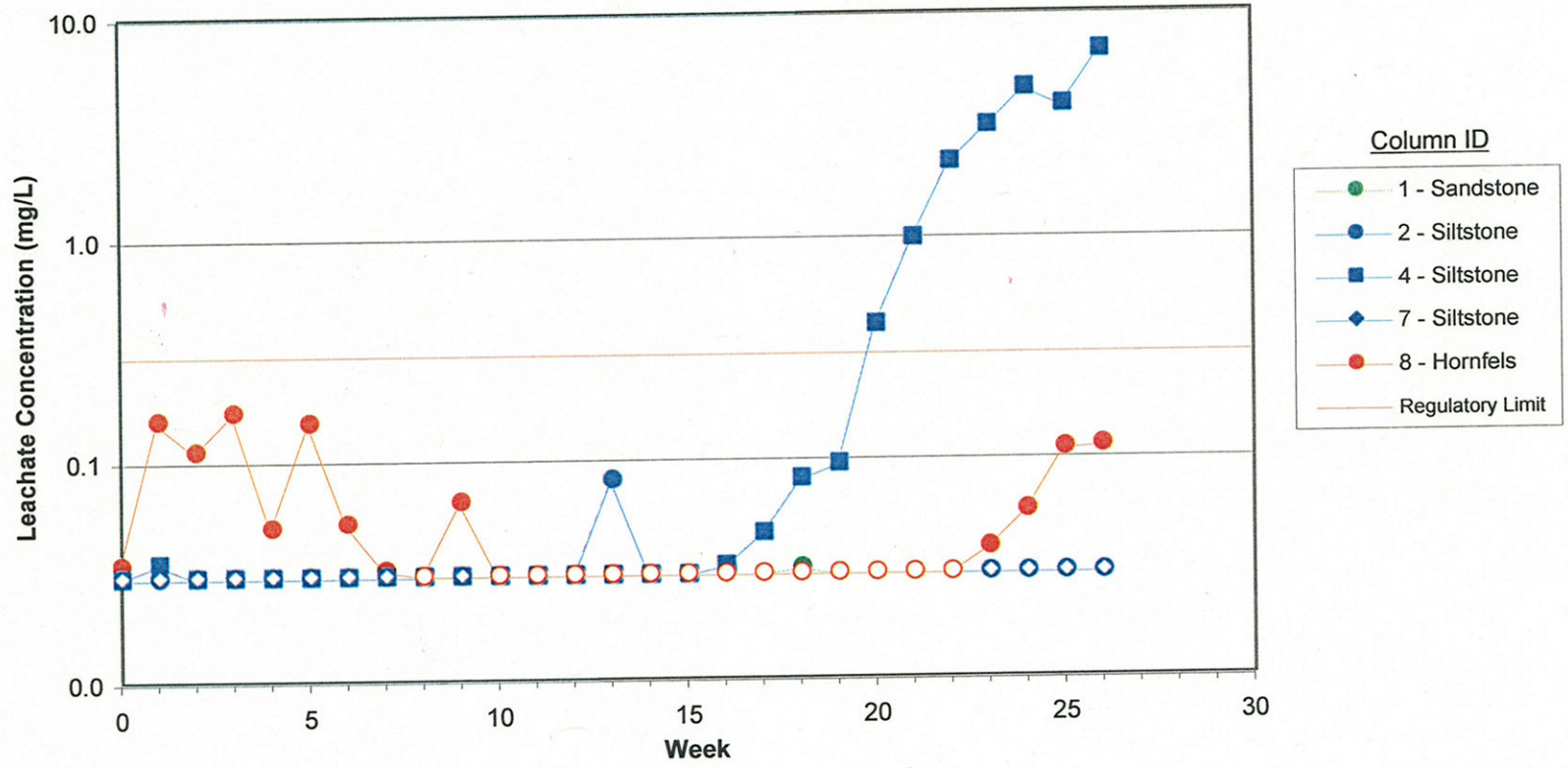
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Copper**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-16**	



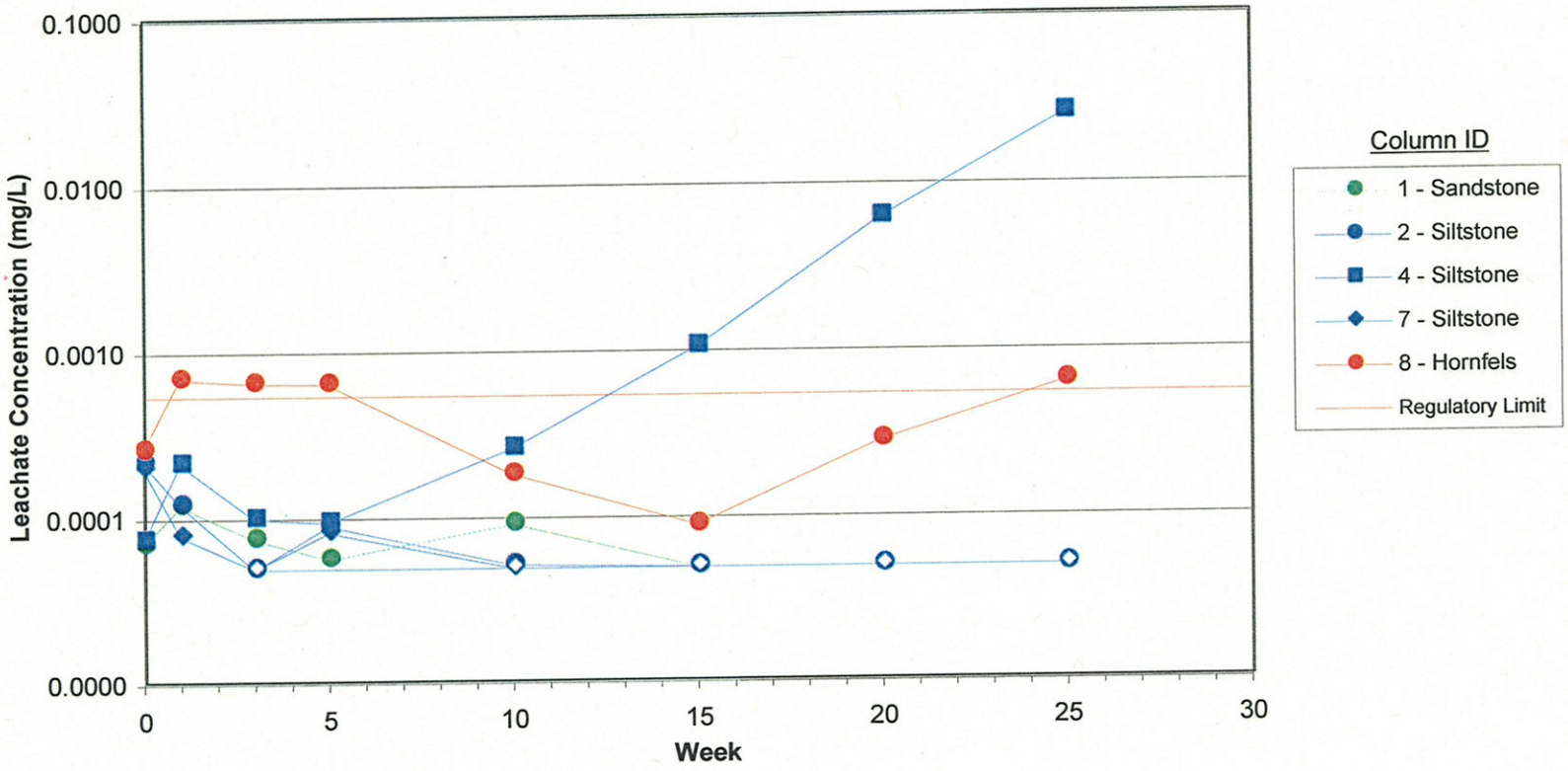
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Fluoride**		
	DRAWN	TB	DATE April 2005	JOB NO. 043-1055
	CHECKED	VR	SCALE na	DWG. NO.
	REVIEWED	ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. B.2-17



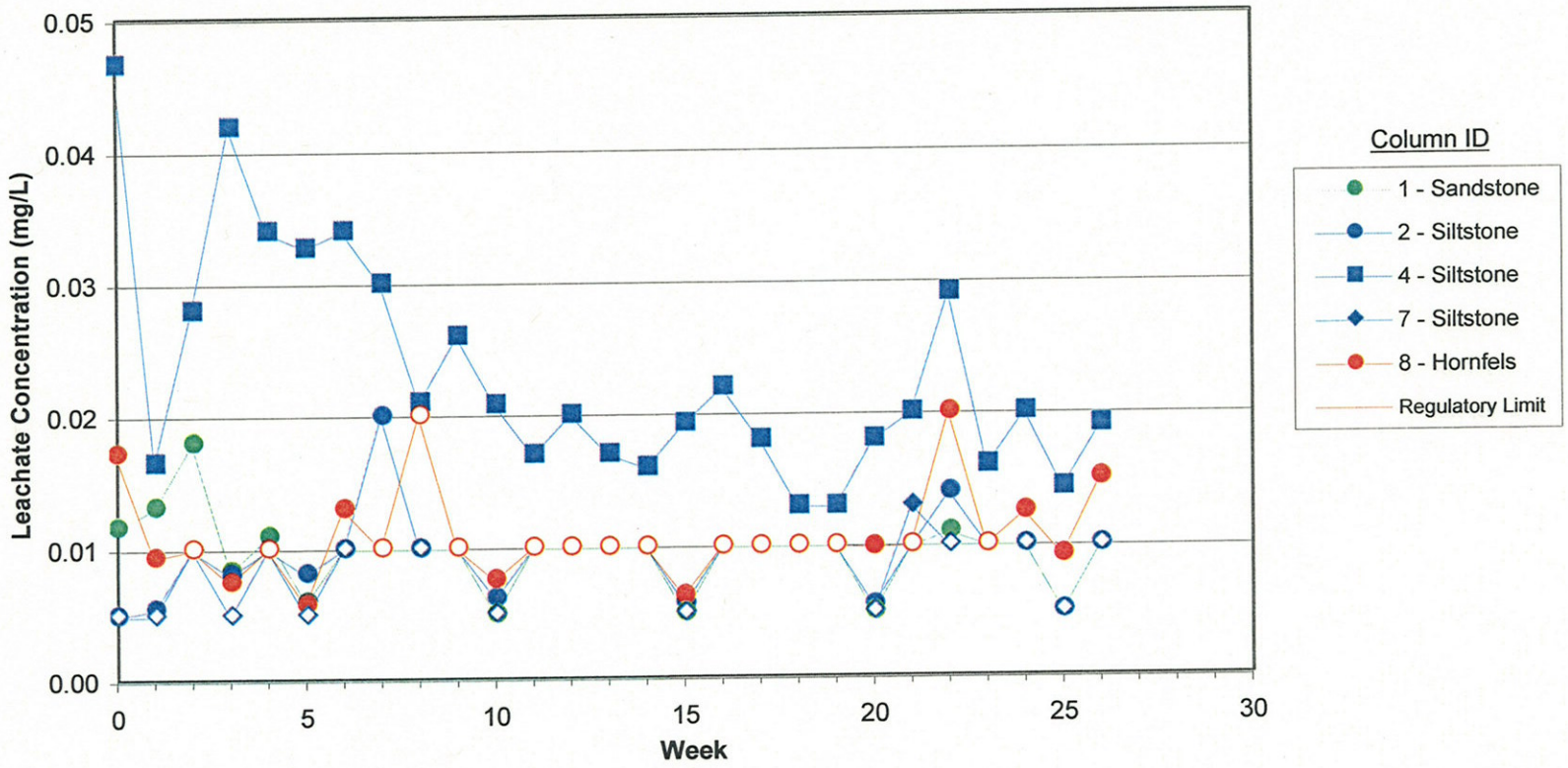
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Iron**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-18**	



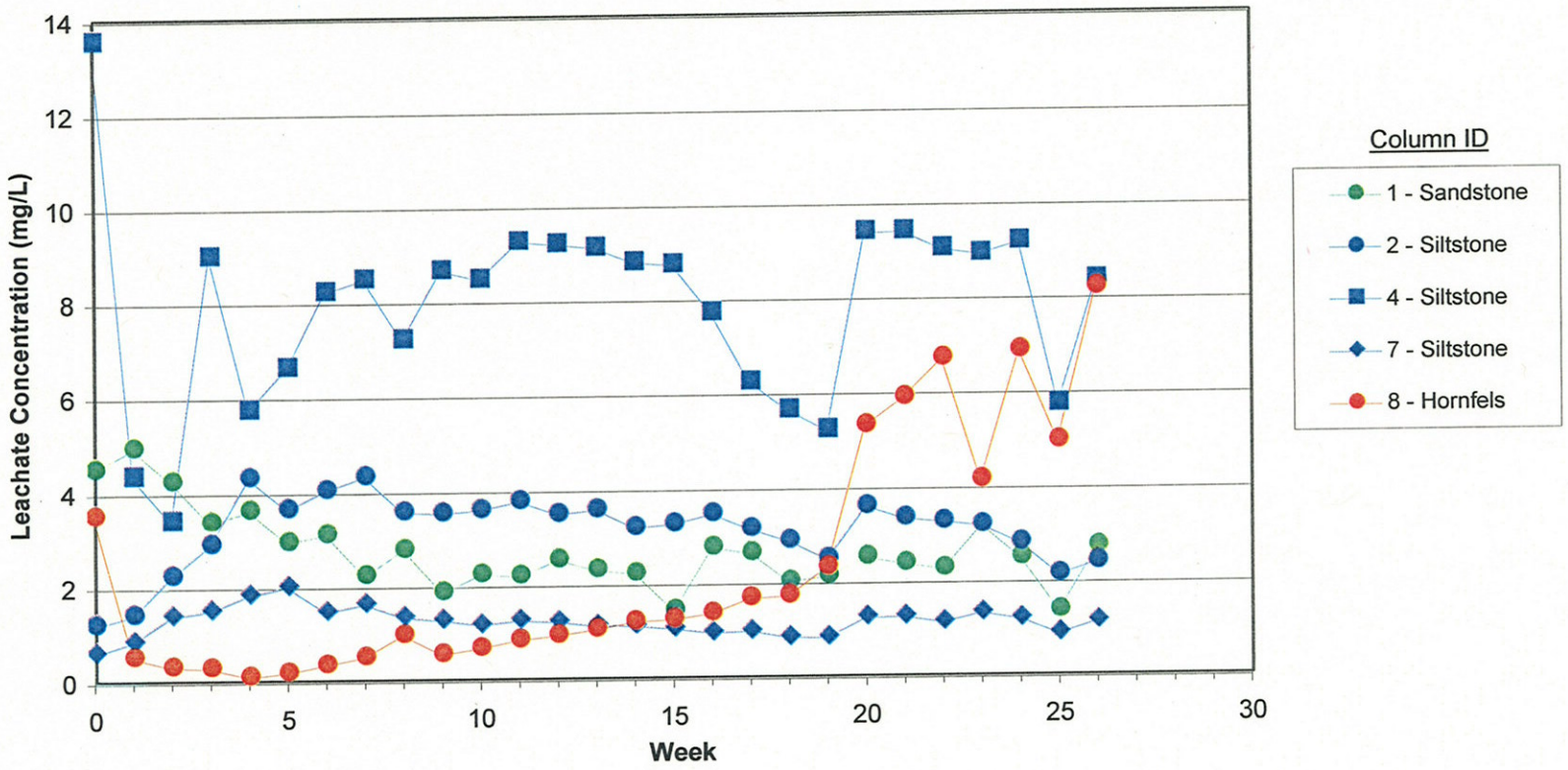
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Lead**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-19**	



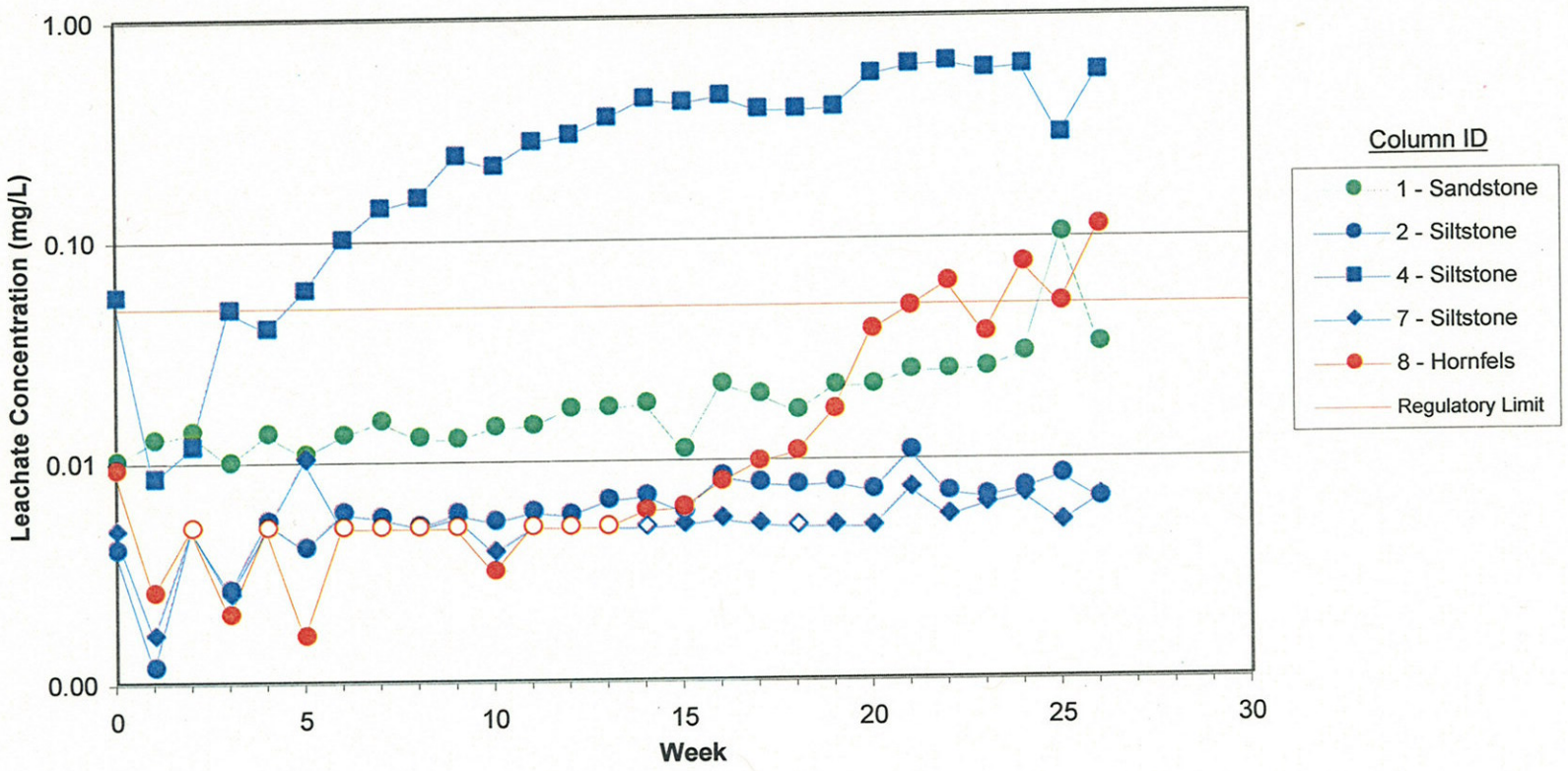
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Lithium**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-20**	



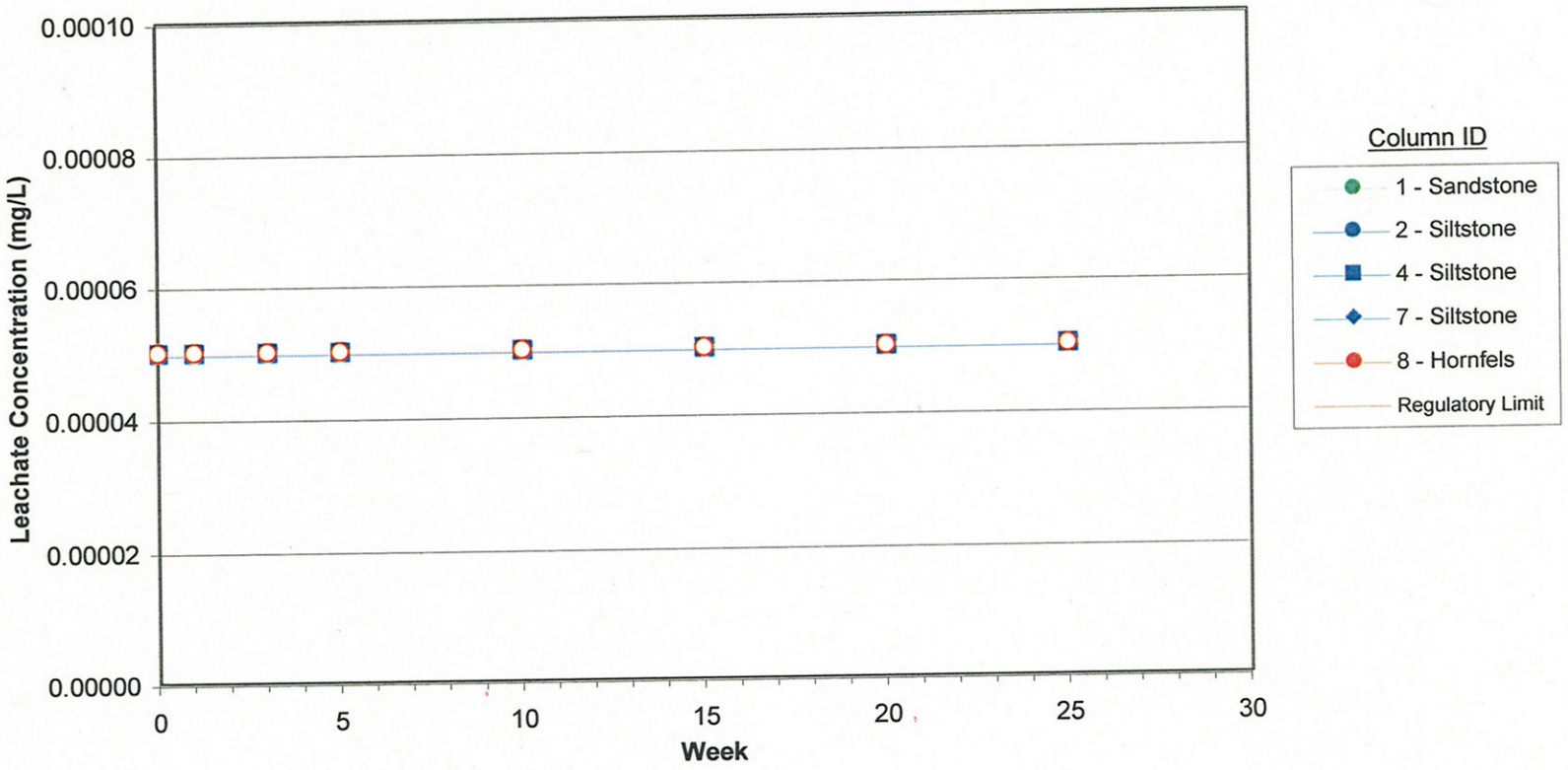
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Magnesium**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-21**	



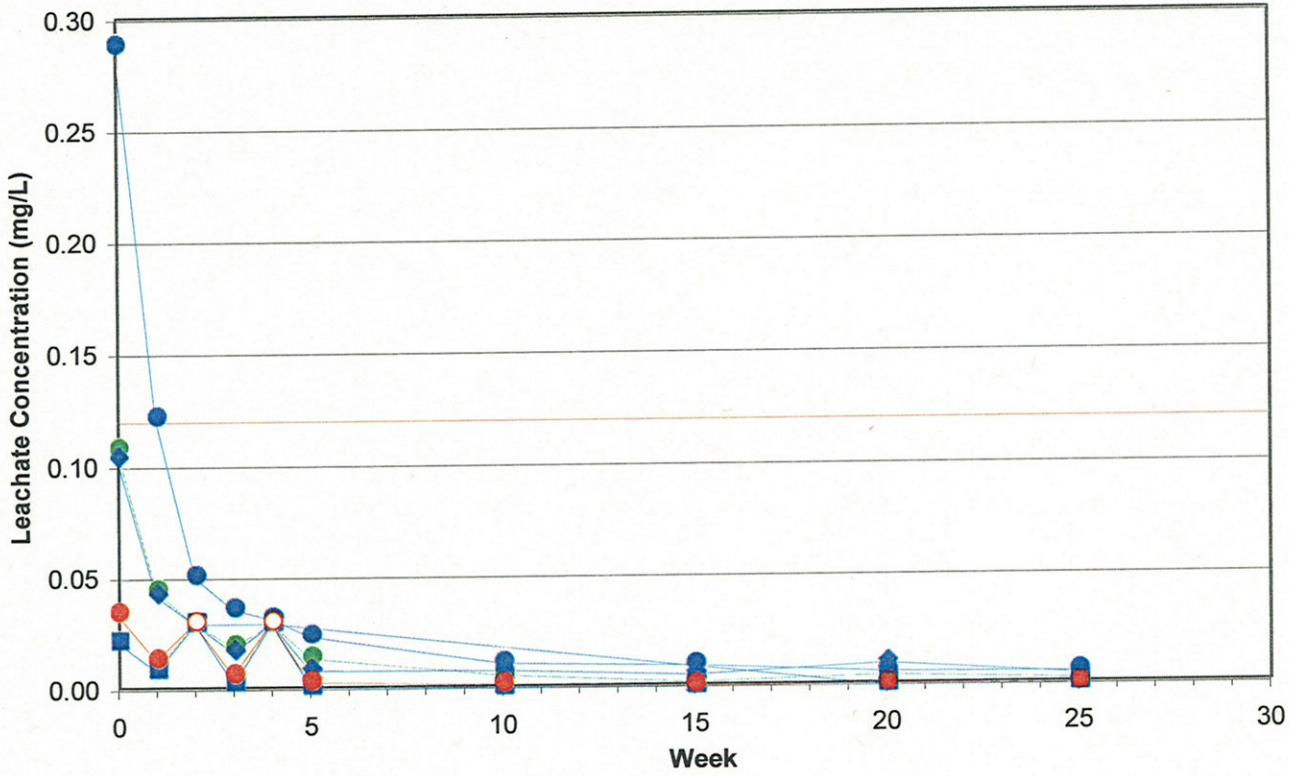
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Manganese**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-22**	



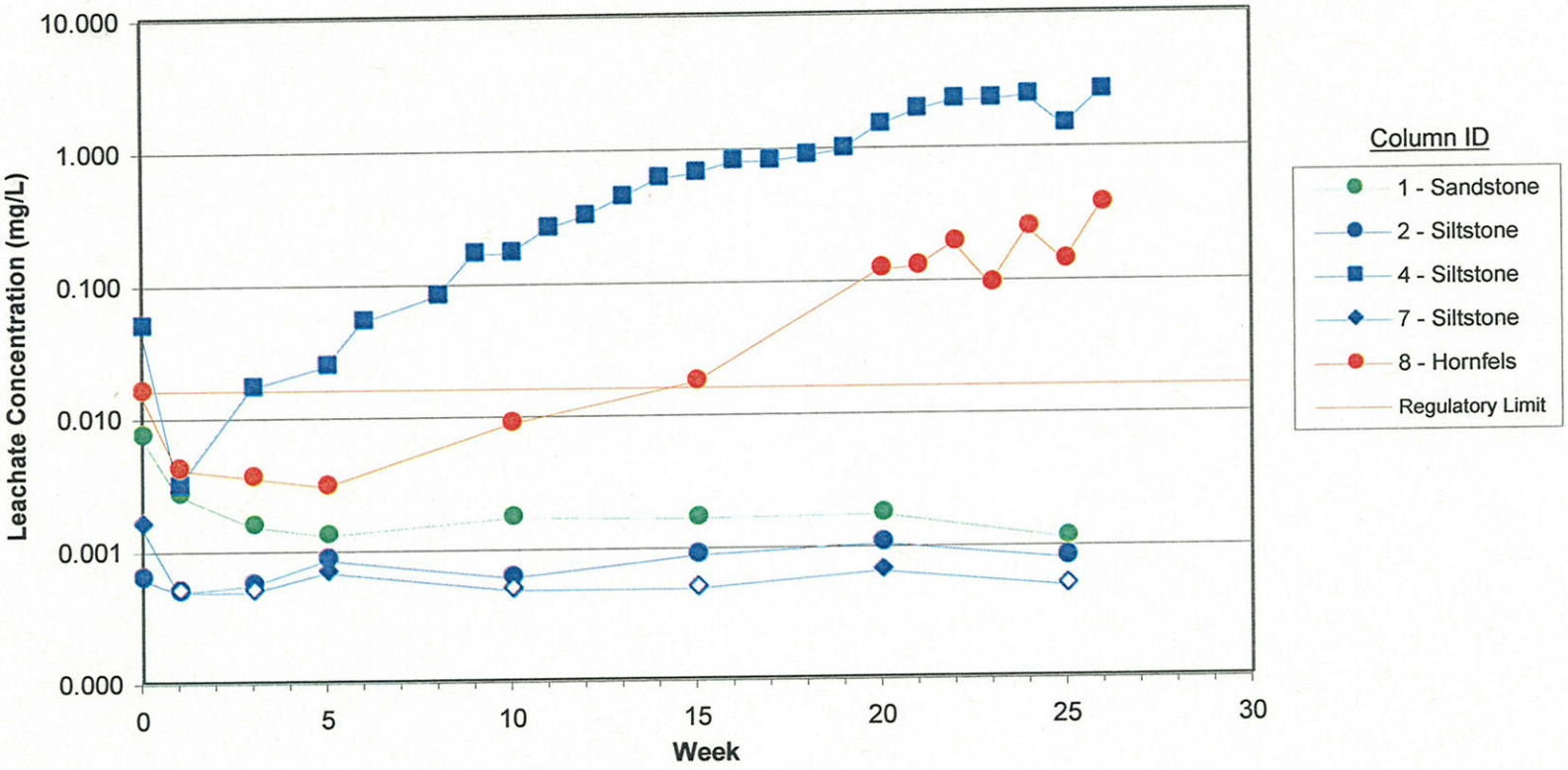
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Mercury**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-23**	



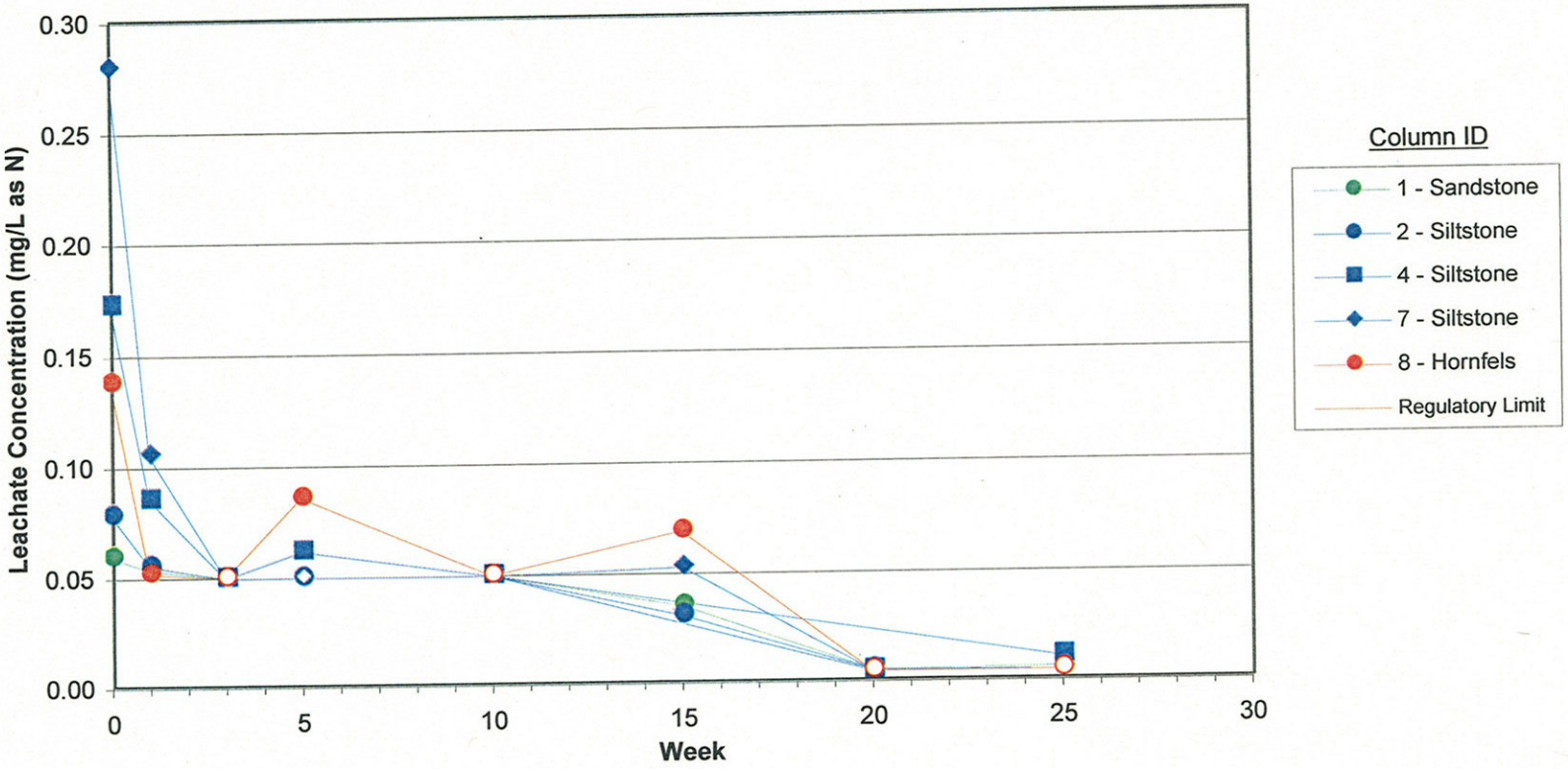
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Molybdenum**		
	DRAWN	TB	DATE April 2005	JOB NO. 043-1055
	CHECKED	VR	SCALE na	DWG. NO.
	REVIEWED	ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-24**



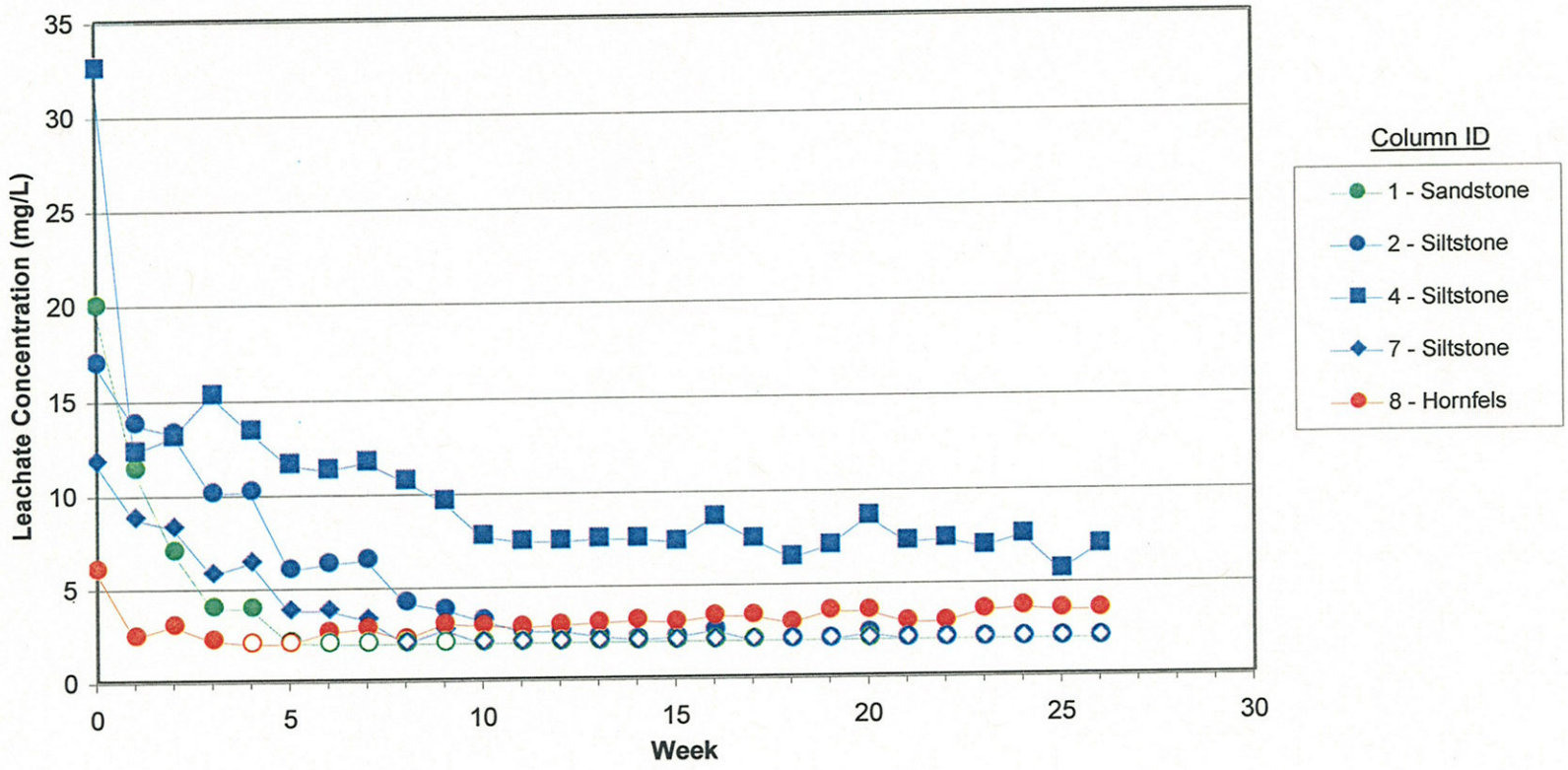
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Nickel**		
	DRAWN	TB	DATE April 2005	JOB NO. 043-1055
	CHECKED	VR	SCALE na	DWG. NO.
	REVIEWED	ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-25**



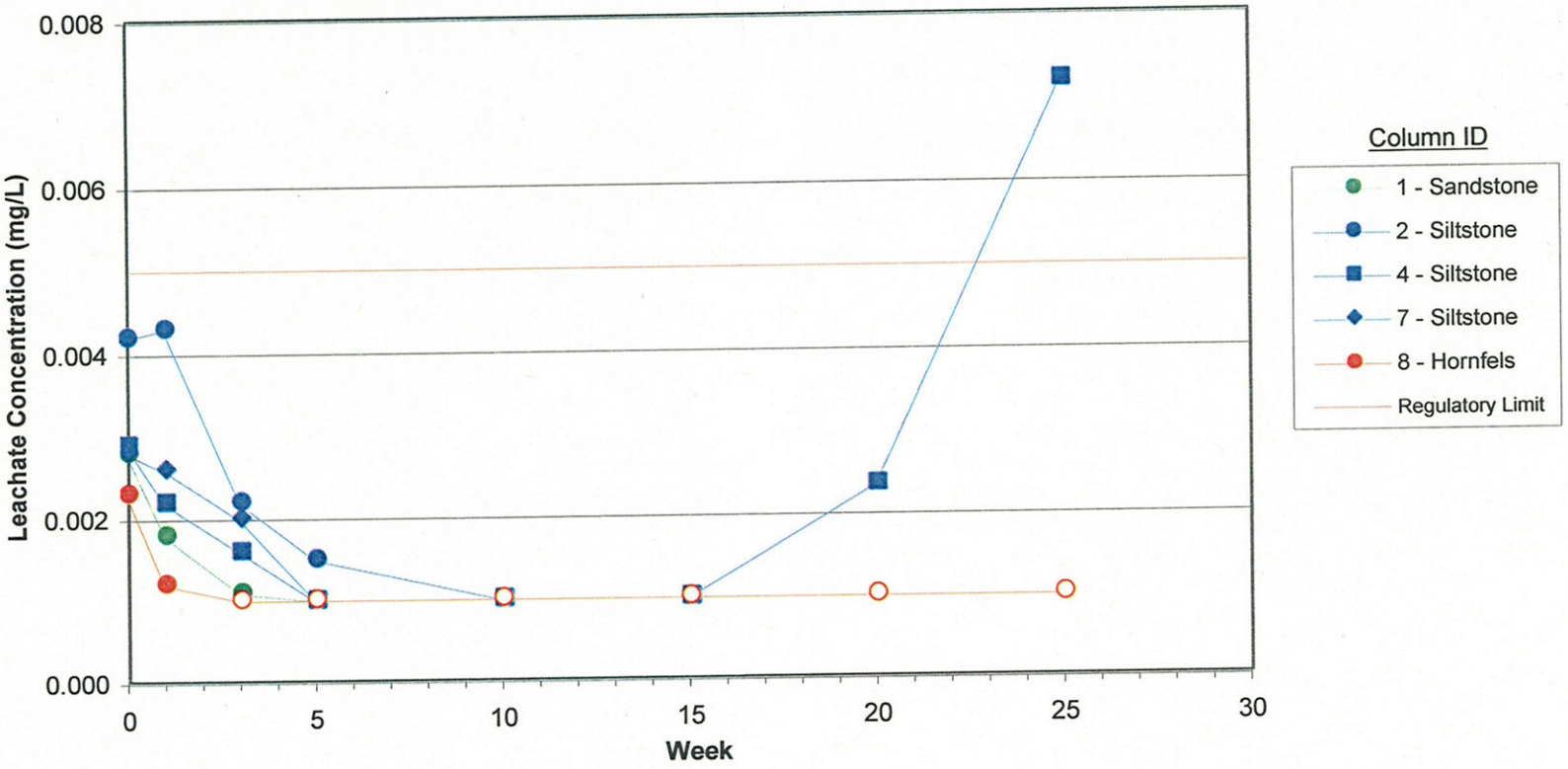
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Nitrite/Nitrate**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-26**	



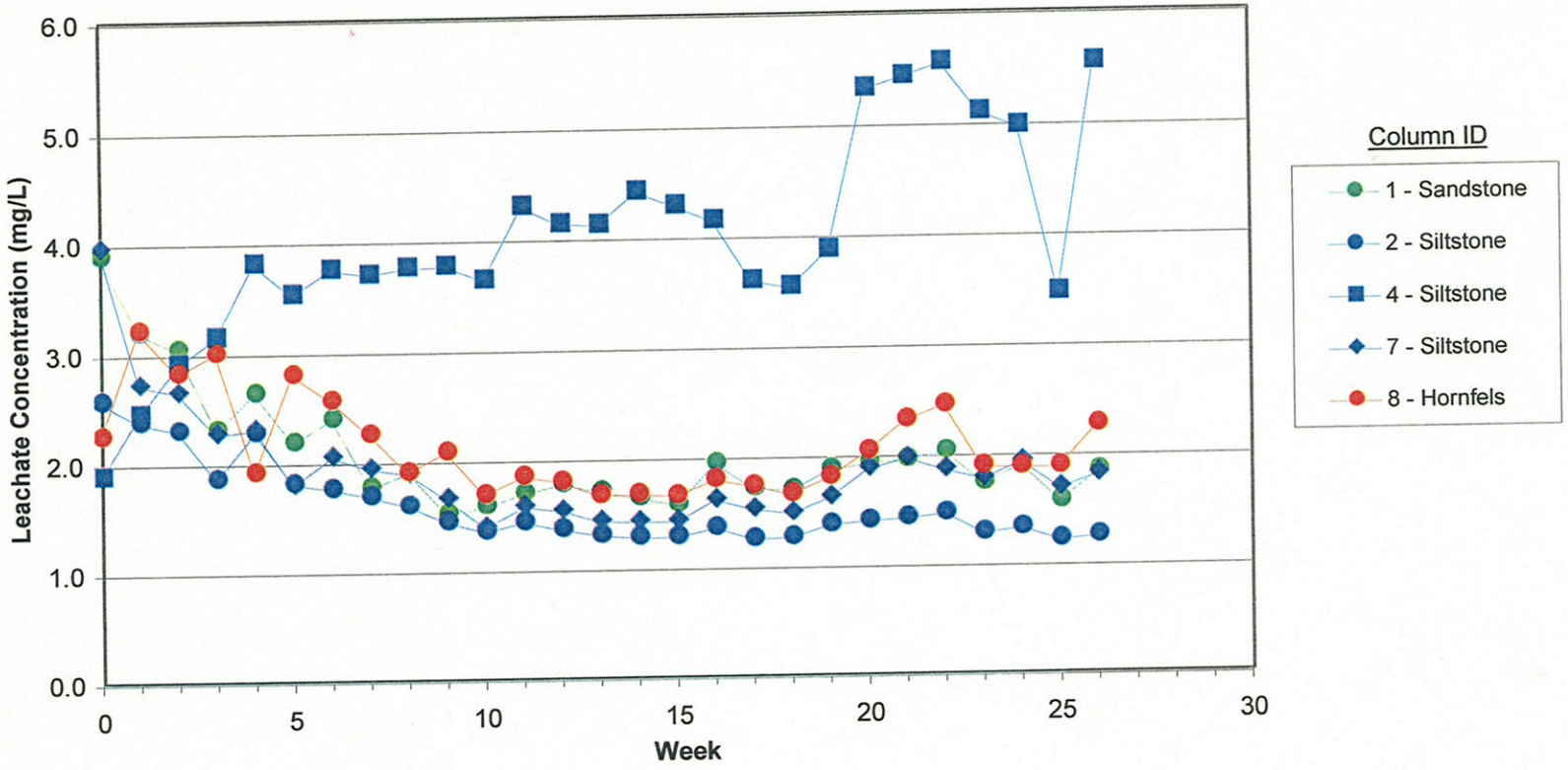
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Potassium**		
	DRAWN	TB	DATE April 2005	JOB NO. 043-1055
	CHECKED	VR	SCALE na	DWG. NO.
	REVIEWED	ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-27**



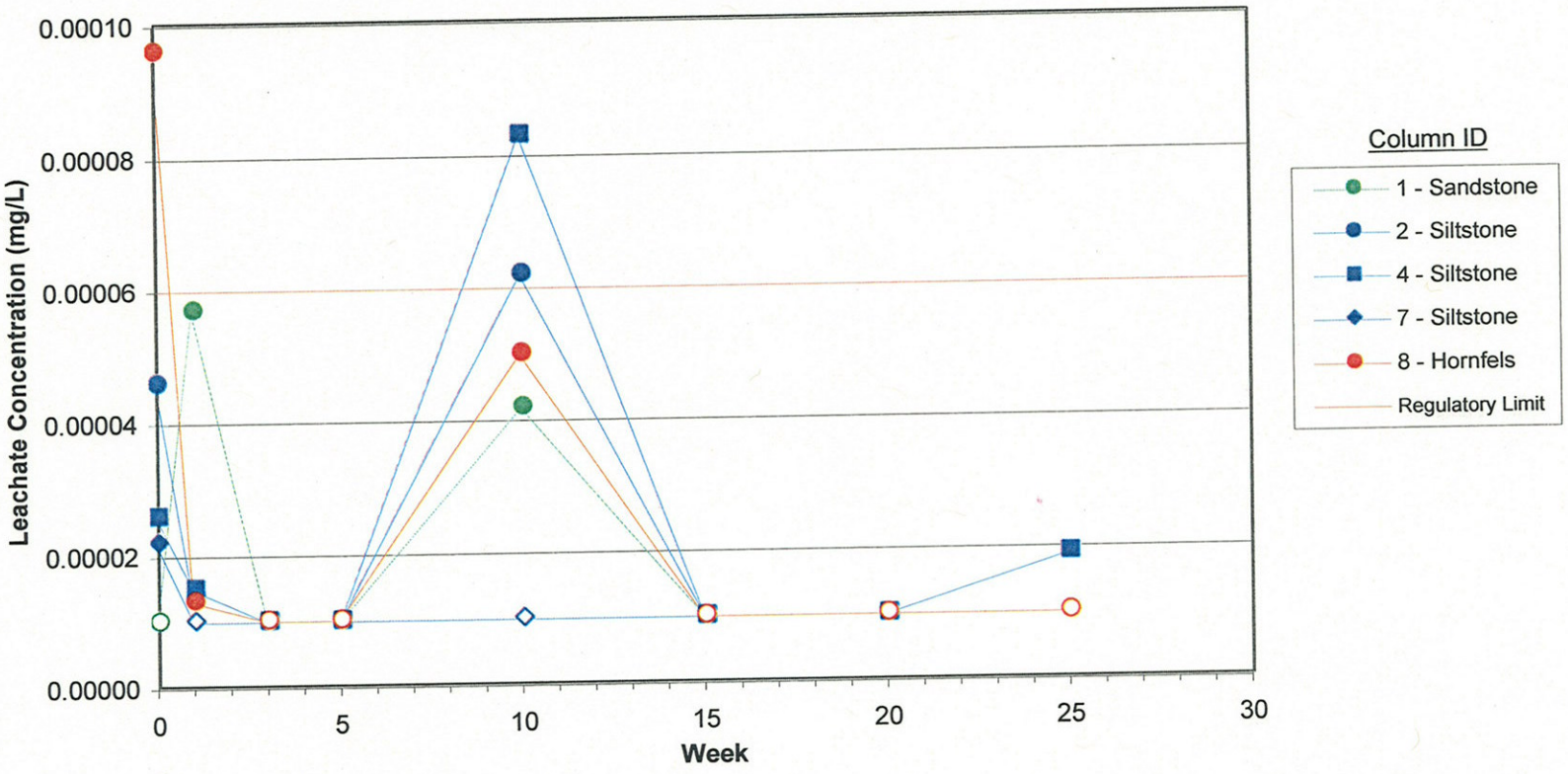
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Selenium**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-28**	



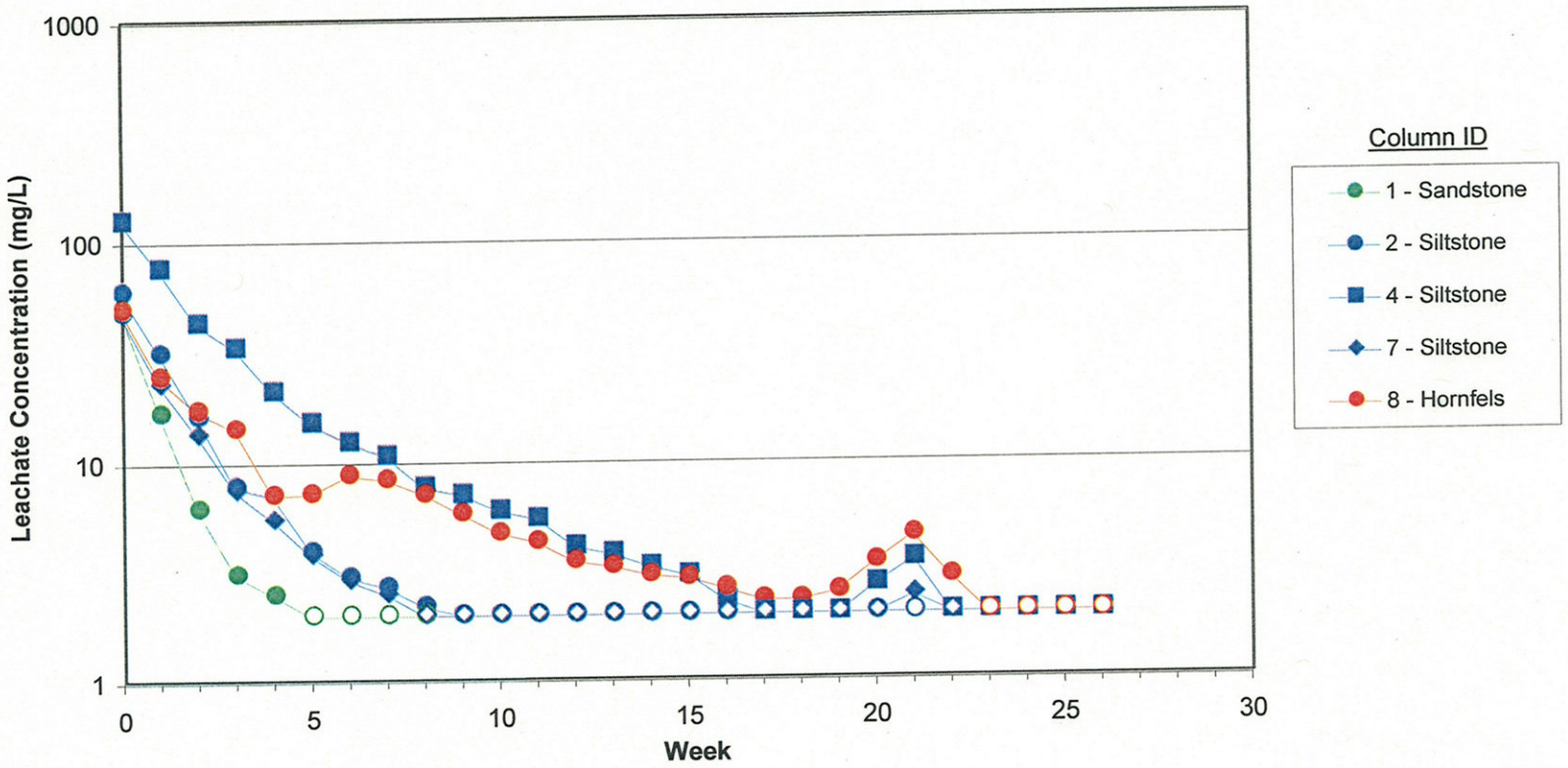
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Silicon**		
	DRAWN	TB	DATE April 2005	JOB NO. 043-1055
	CHECKED	VR	SCALE na	DWG. NO.
	REVIEWED	ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-29**



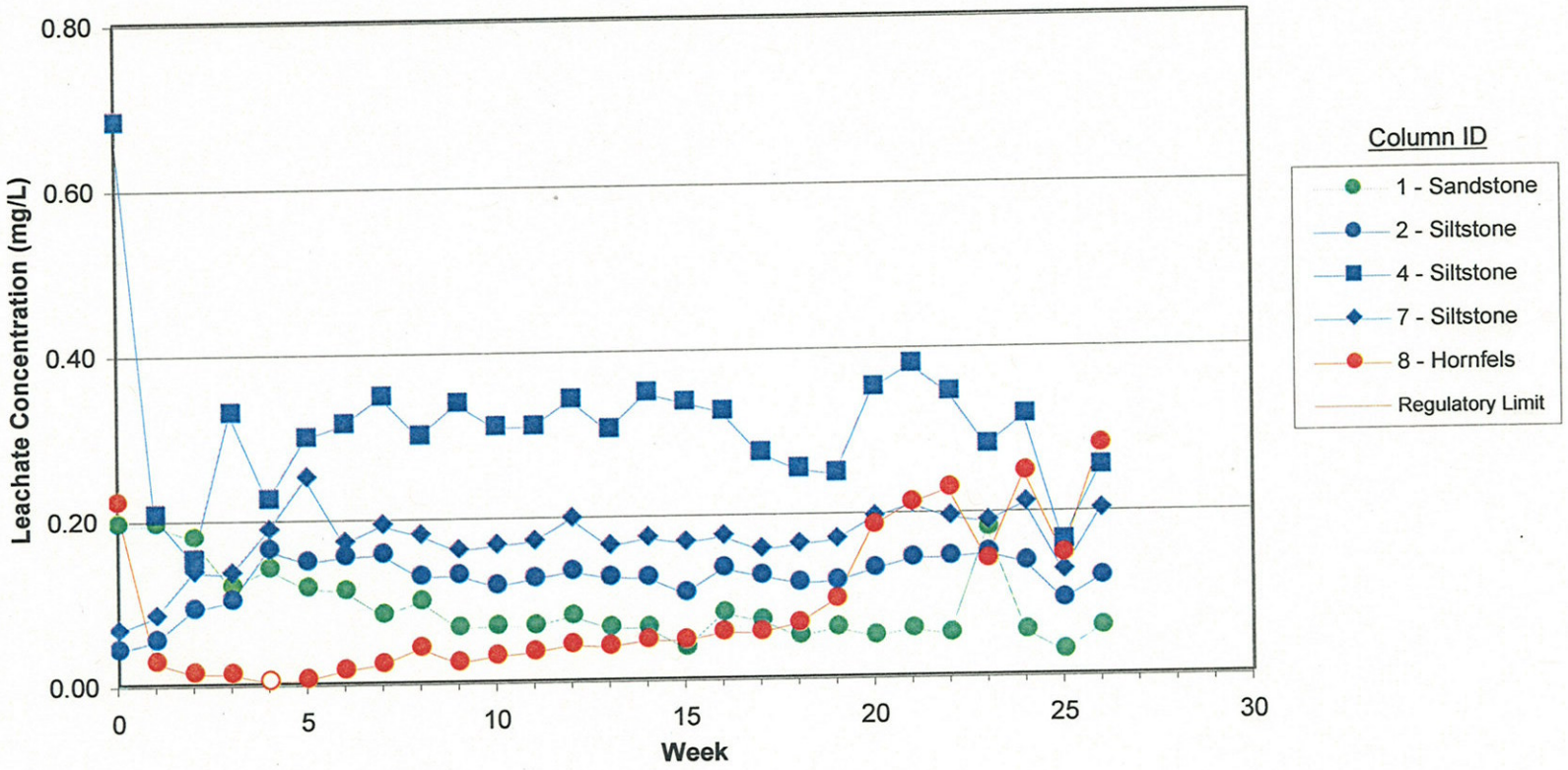
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Silver**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-30**	



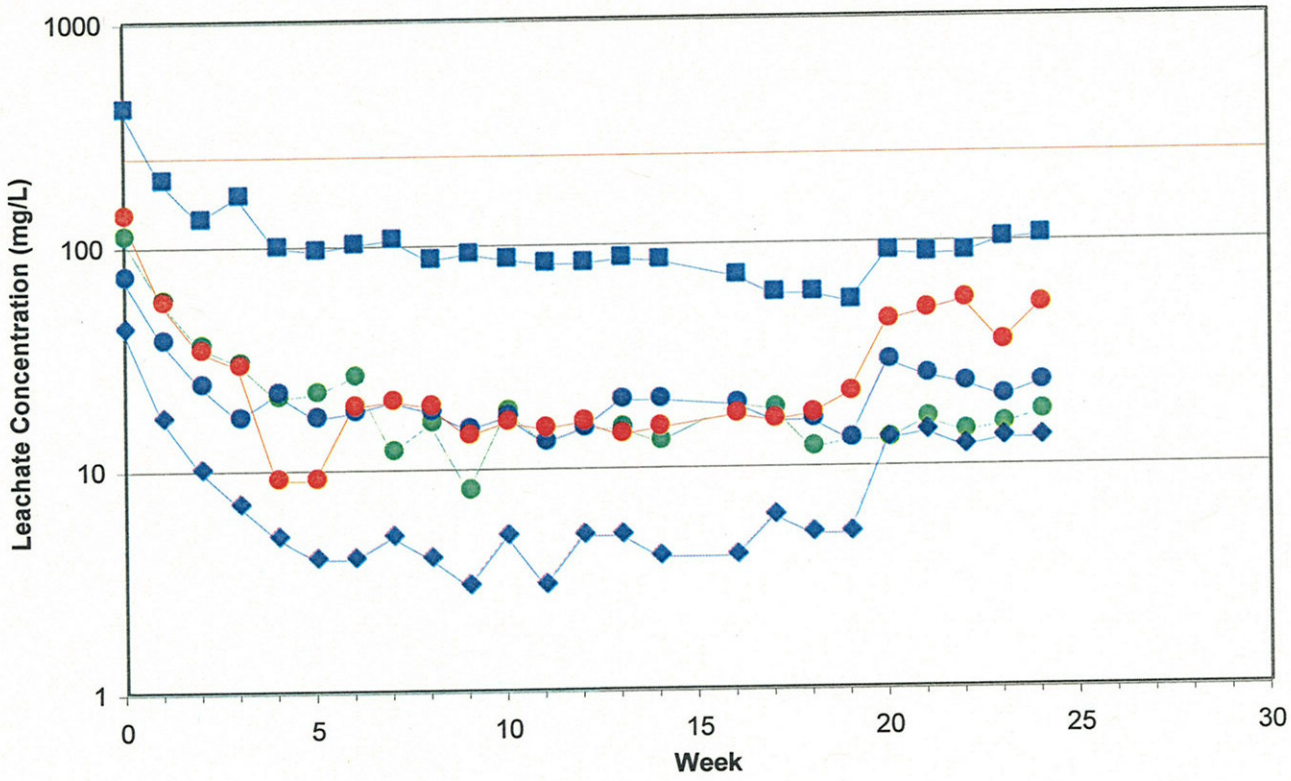
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Sodium**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-31**	



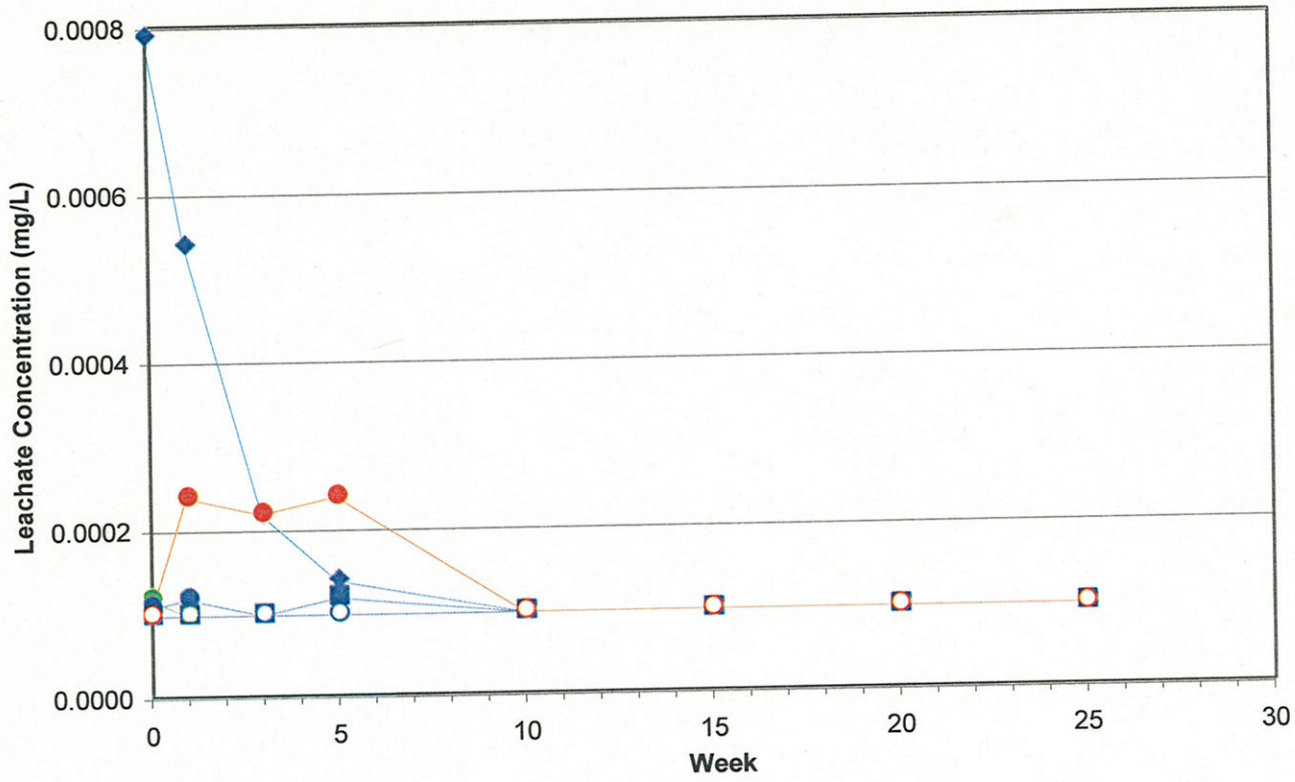
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Strontium**		
	DRAWN	TB	DATE	April 2005	JOB NO.	043-1055
	CHECKED	VR	SCALE	na	DWG. NO.	
	REVIEWED	ML	FILE NO.	Phase I I- Kinetic Cntry Week26.xls	FIGURE NO.	B.2-32



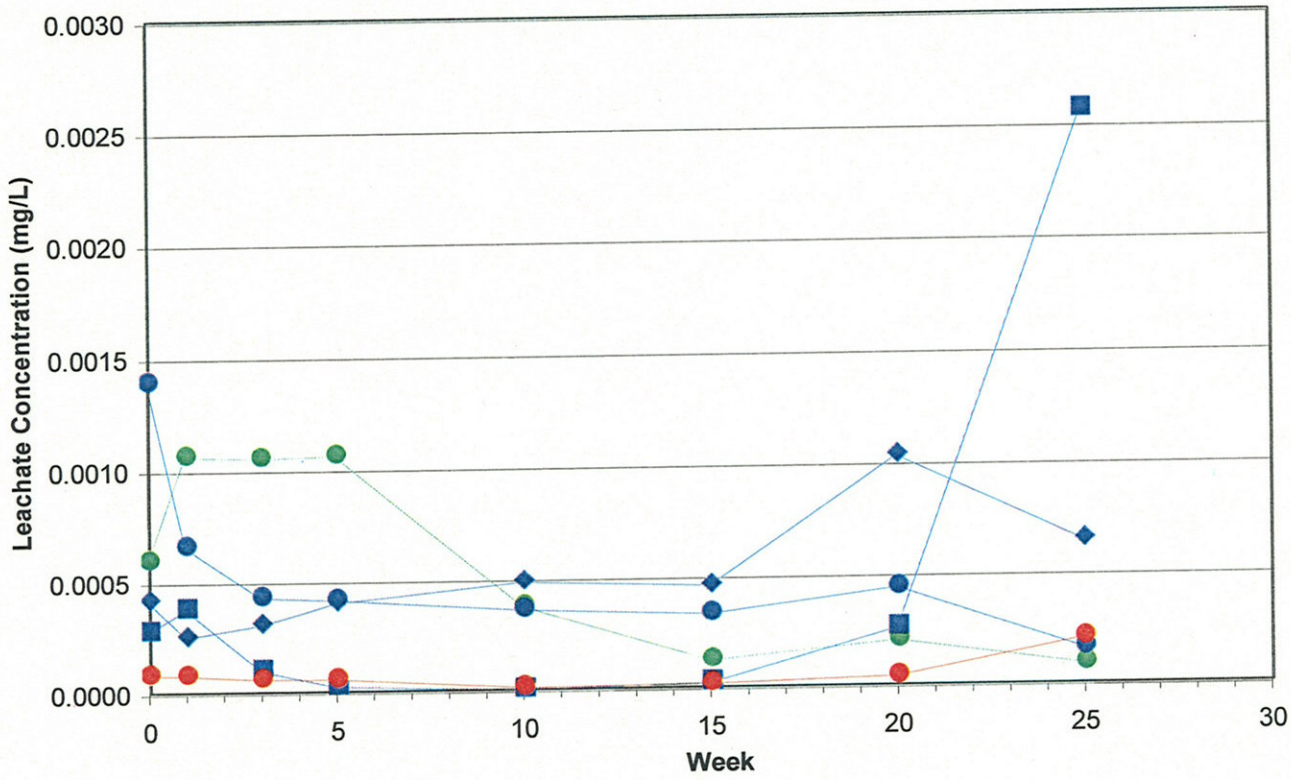
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Sulfate**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-33**	



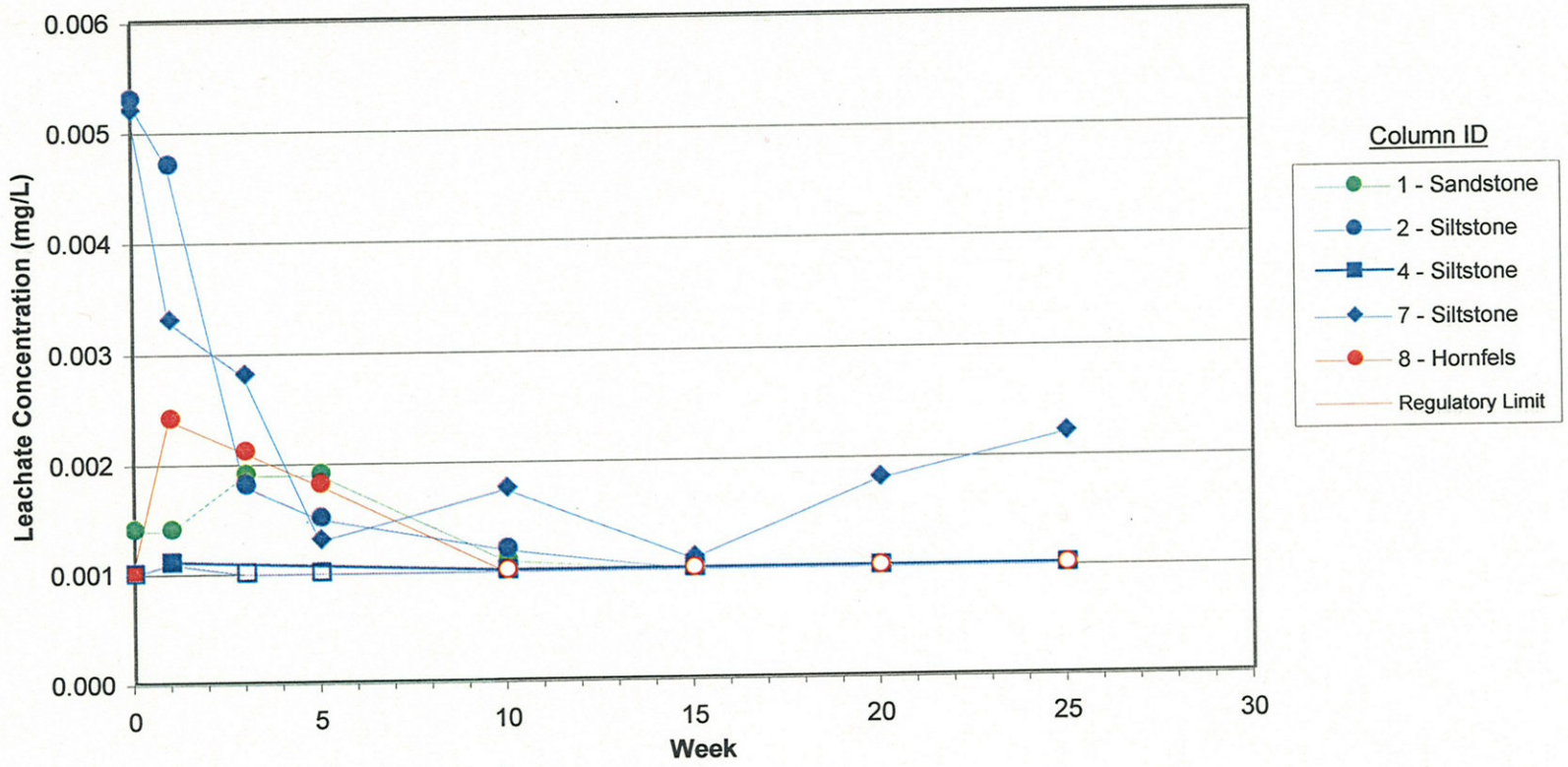
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Tin**			
	DRAWN	TB	DATE	April 2005	JOB NO. 043-1055
	CHECKED	VR	SCALE	na	DWG. NO.
	REVIEWED	ML	FILE NO.	Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2.34**



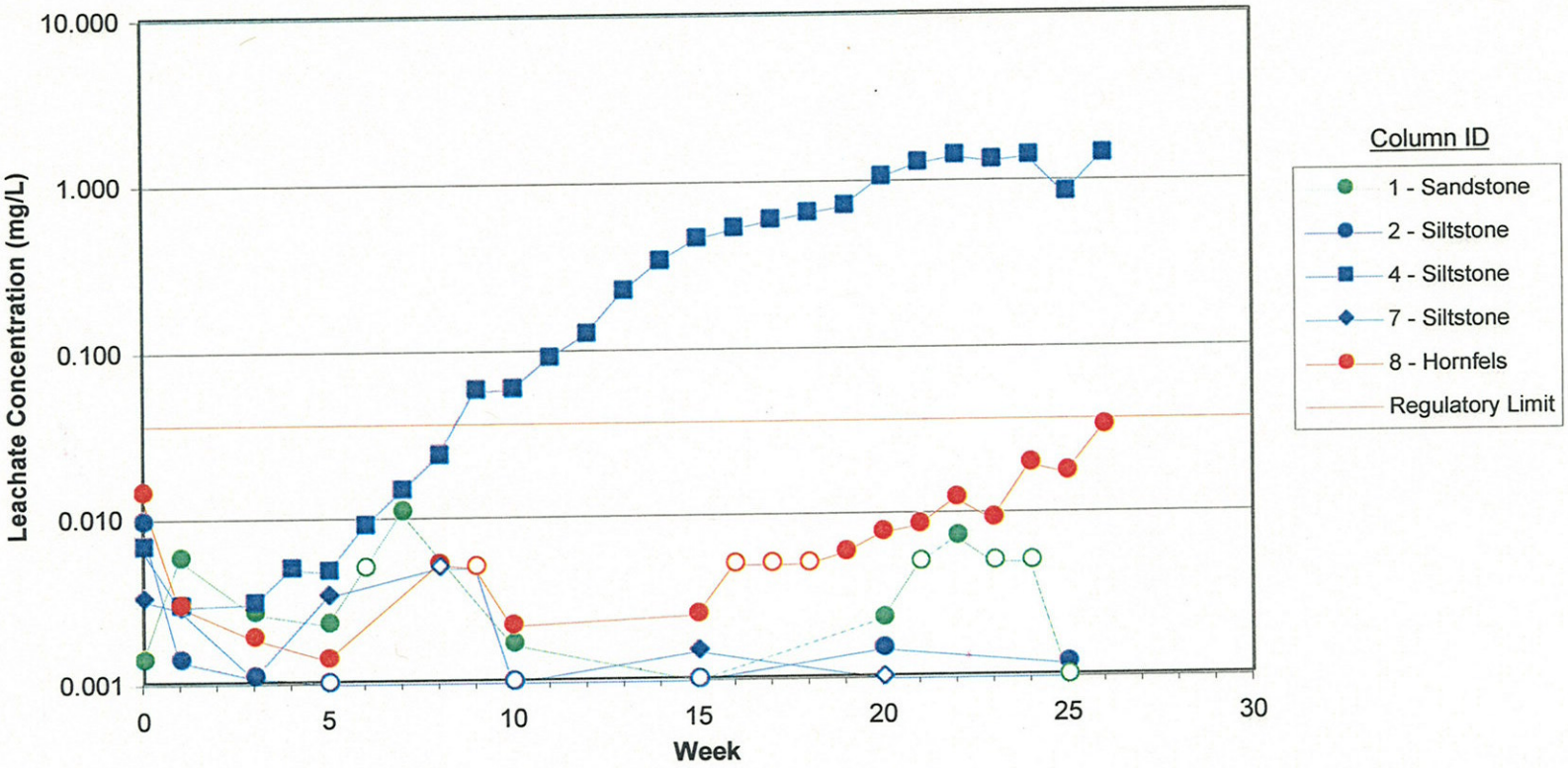
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Uranium**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-35**	



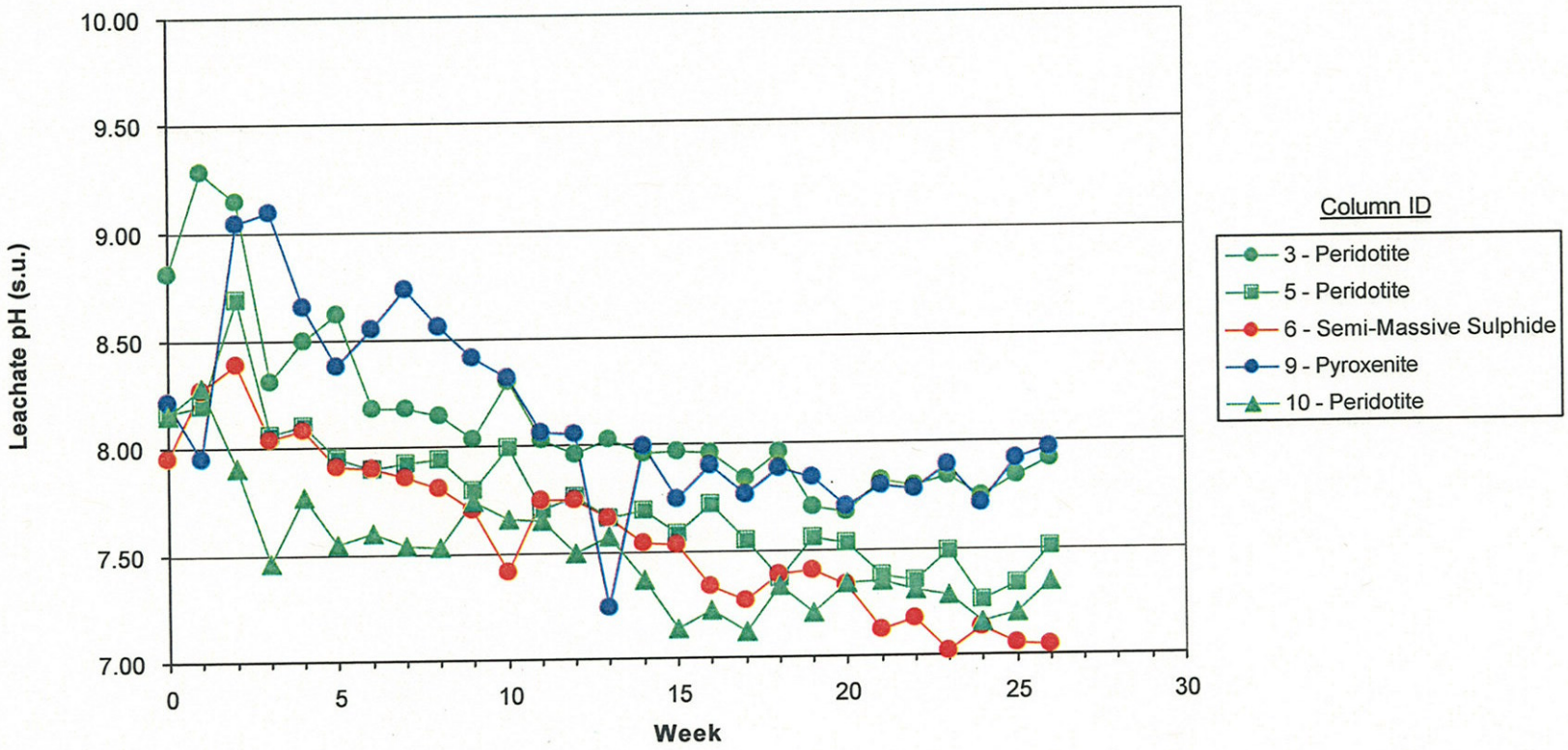
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Vanadium**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-36**	



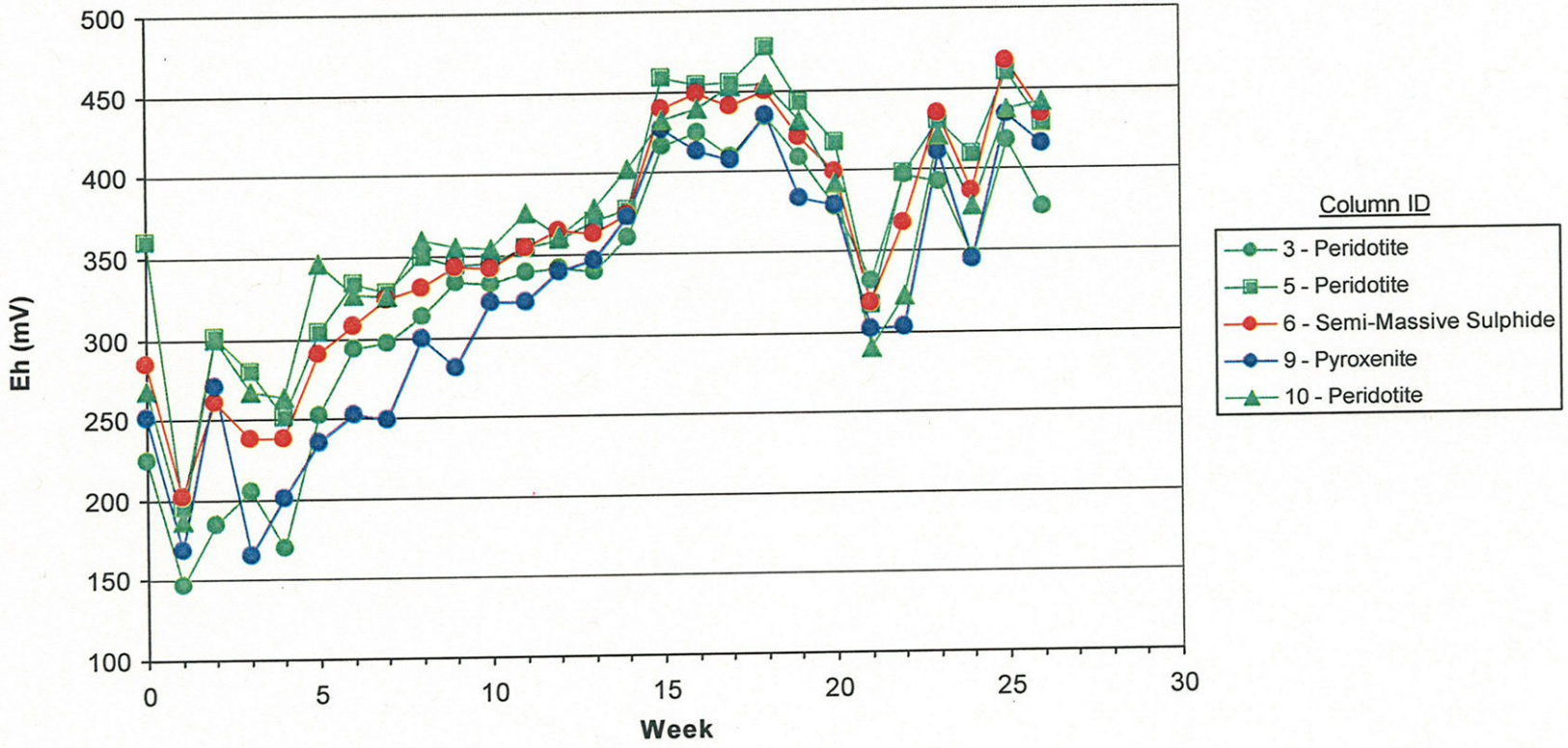
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Country Rock Suite Results - Zinc**		
	DRAWN	TB	DATE April 2005	JOB NO. 043-1055
	CHECKED	VR	SCALE na	DWG. NO.
	REVIEWED	ML	FILE NO. Phase I I- Kinetic Cntry Week26.xls	FIGURE NO. **B.2-37**



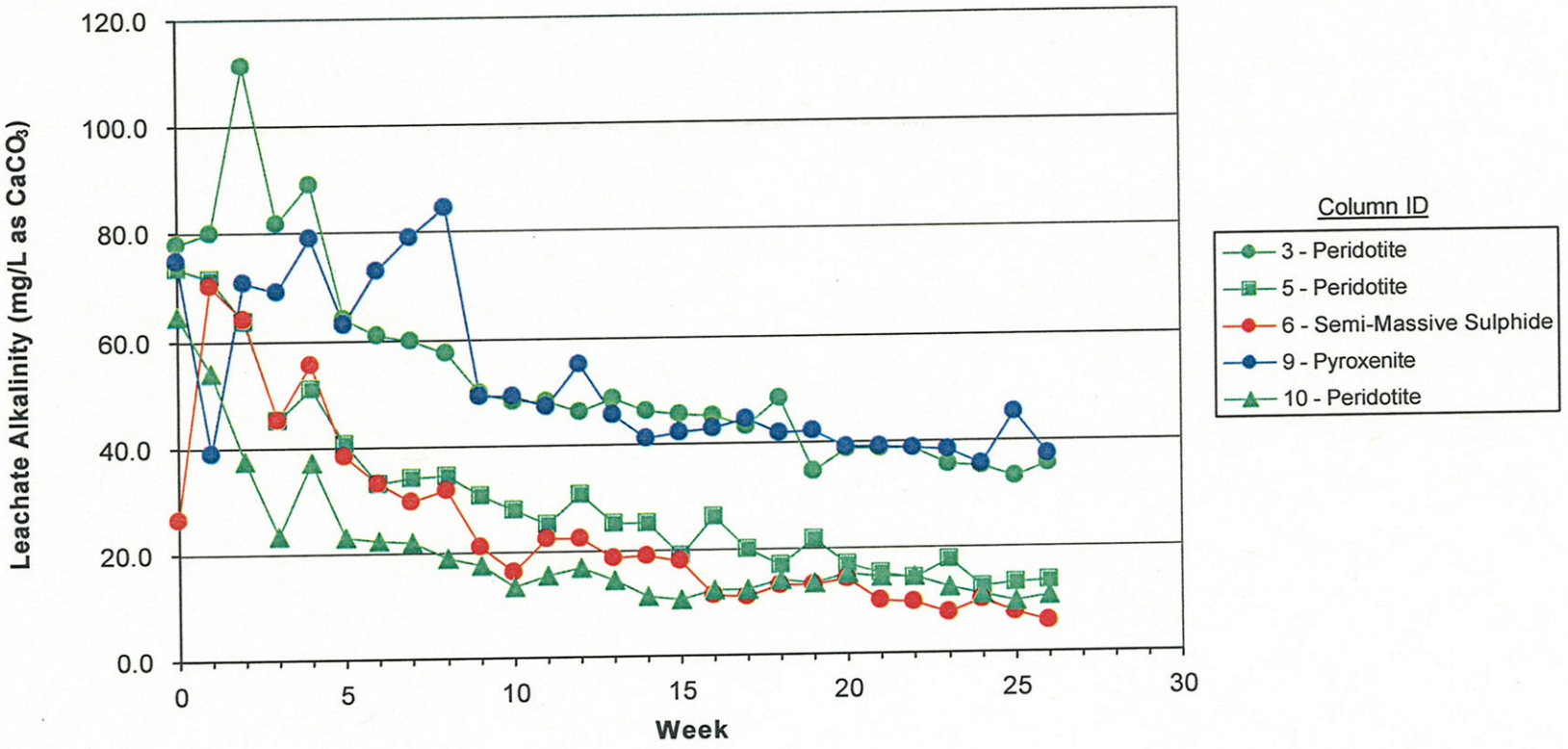
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Leachate pH**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. **B.2-38**	



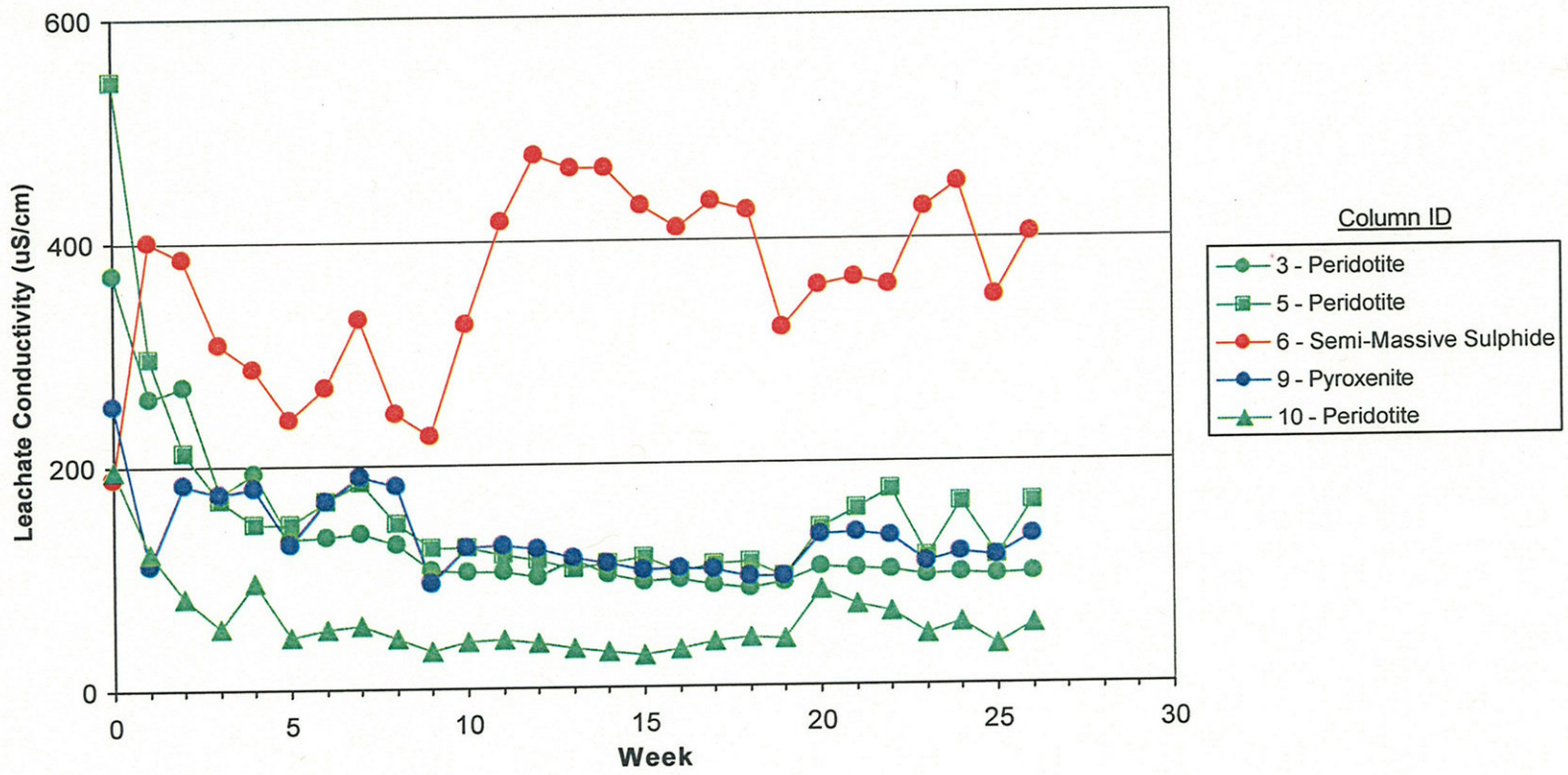
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Redox**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. B.2-39	



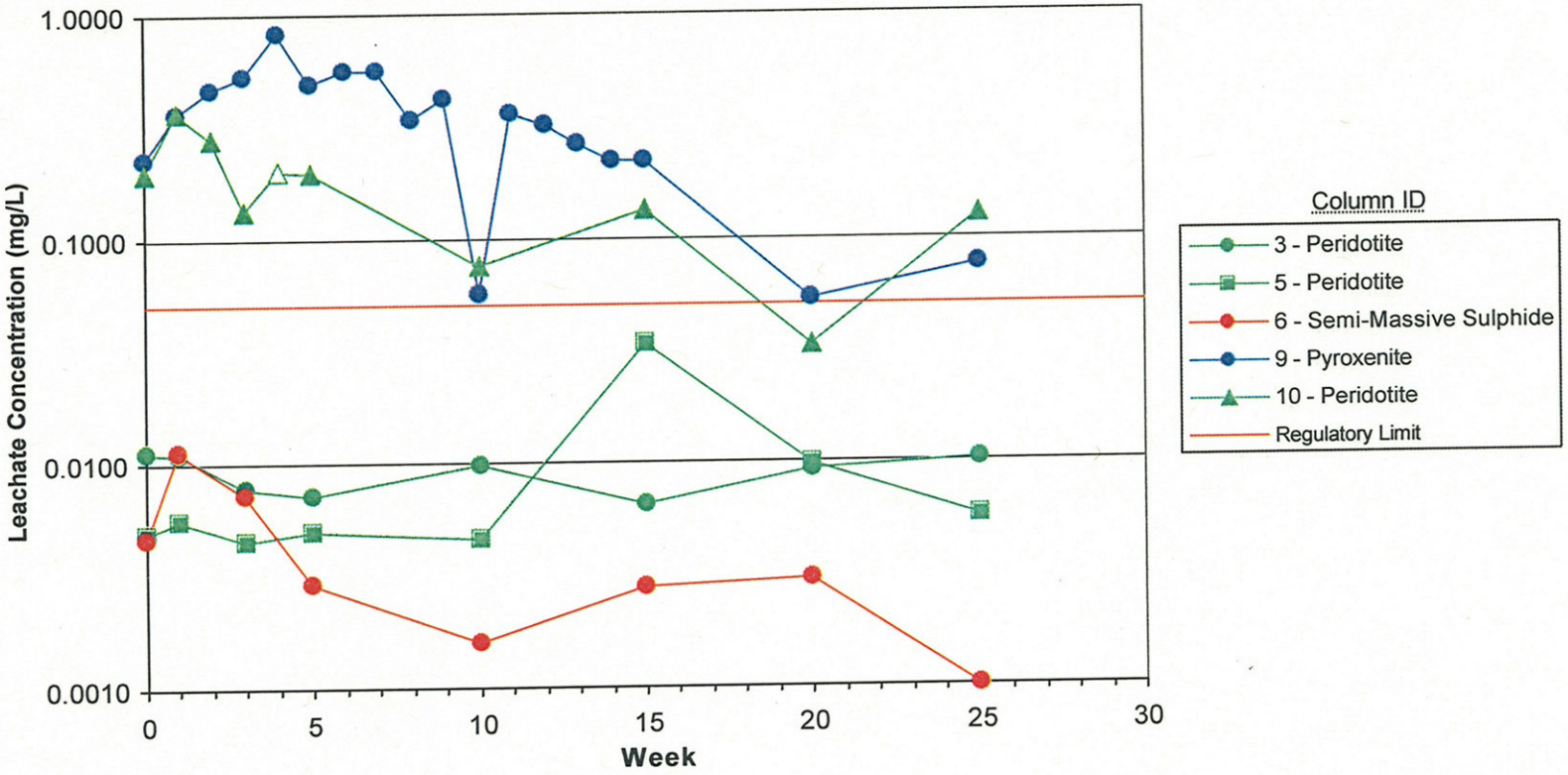
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Alkalinity**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. **B.2-40**	



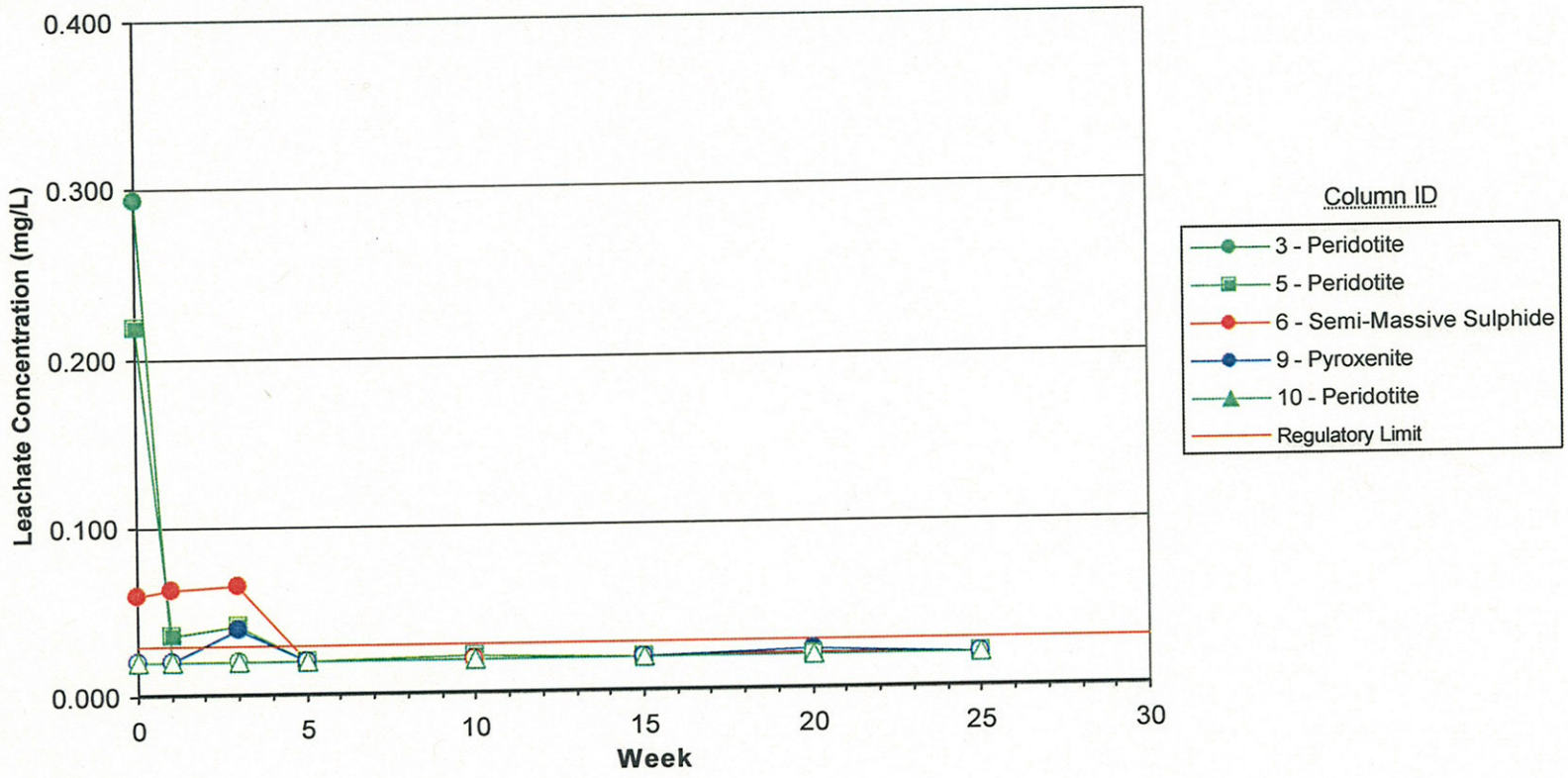
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Conductivity**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. B.2-41	



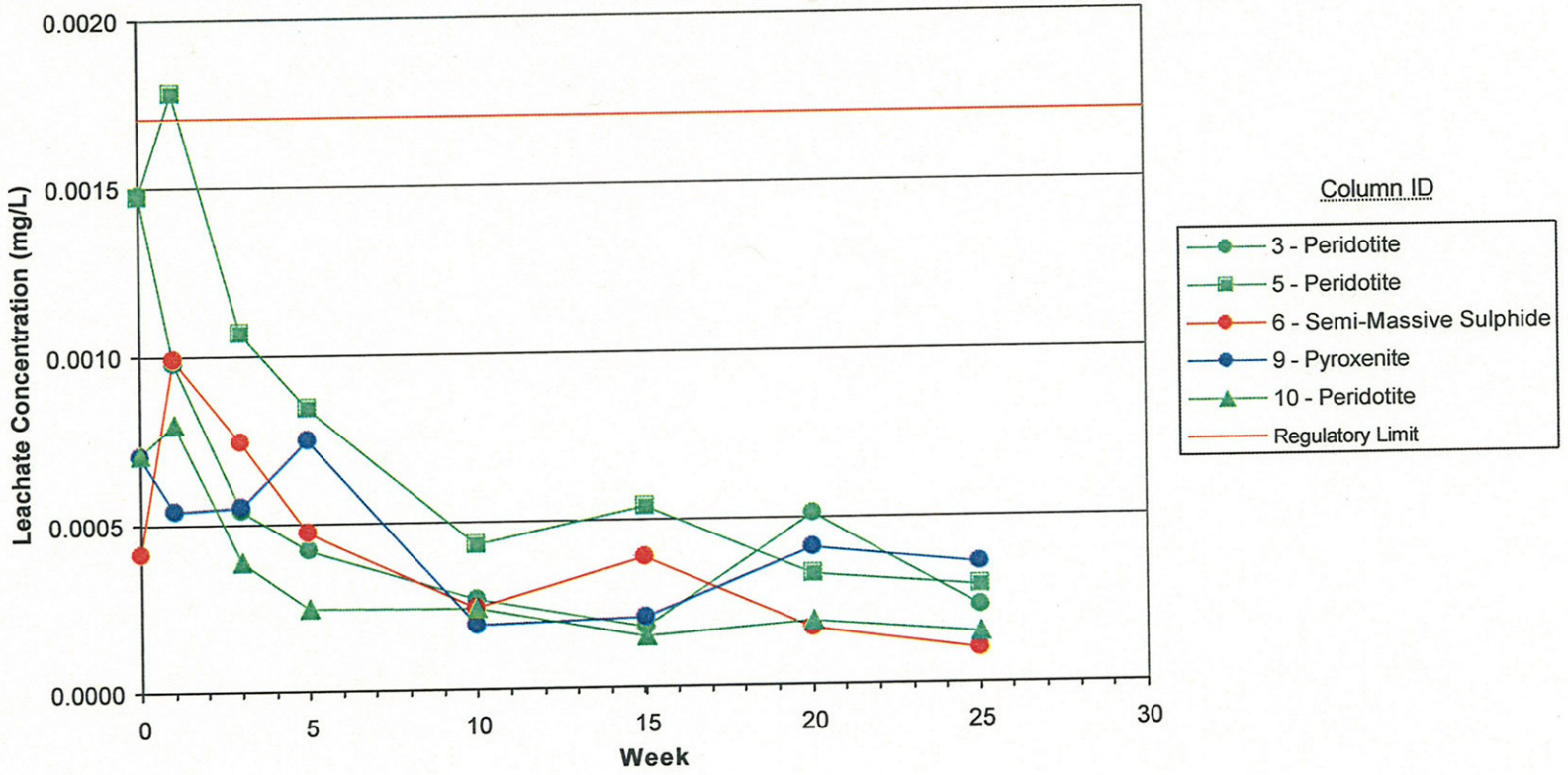
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Aluminum**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. **B.2-42**	



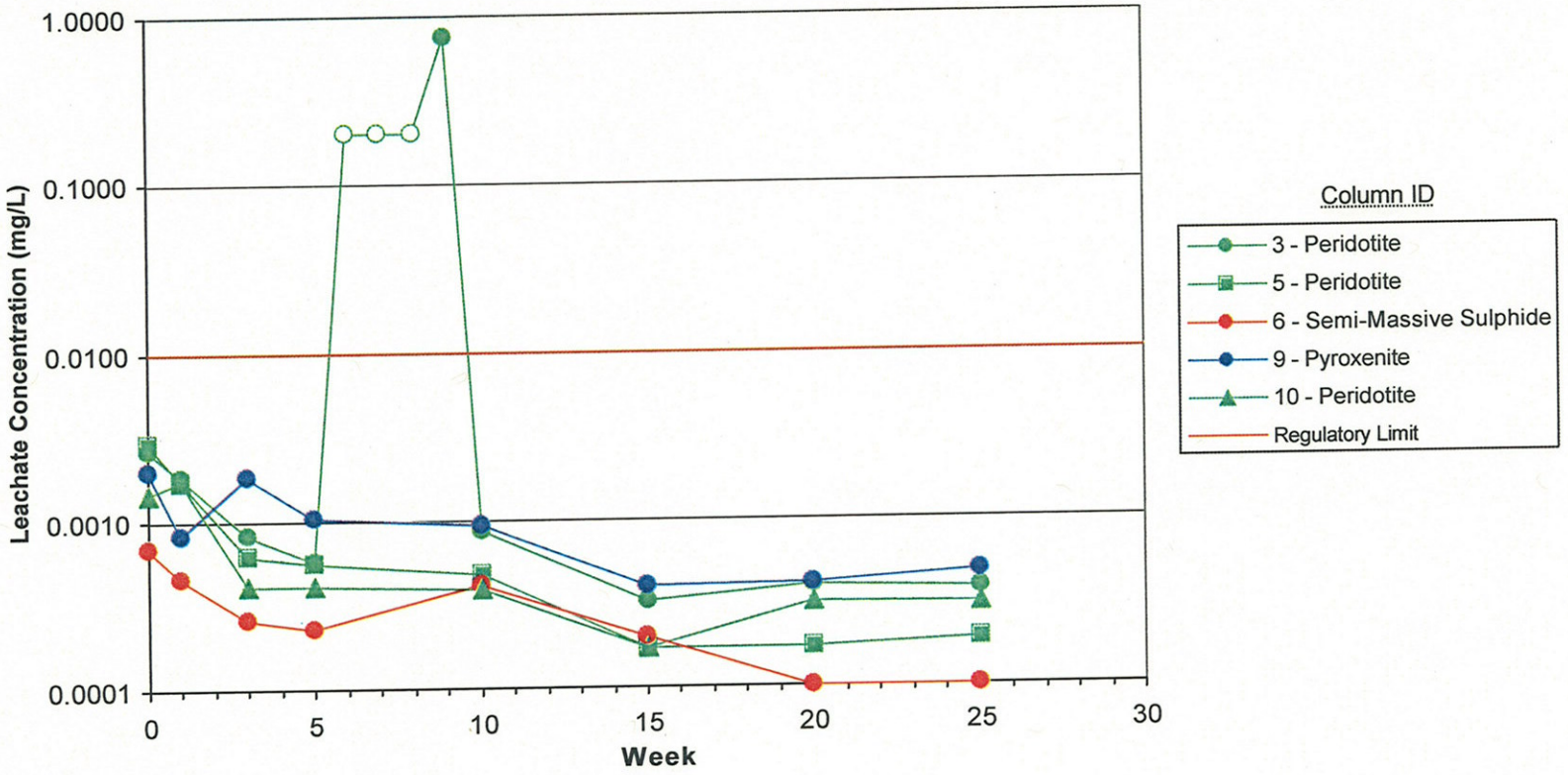
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Ammonia**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. **B.2-43**	



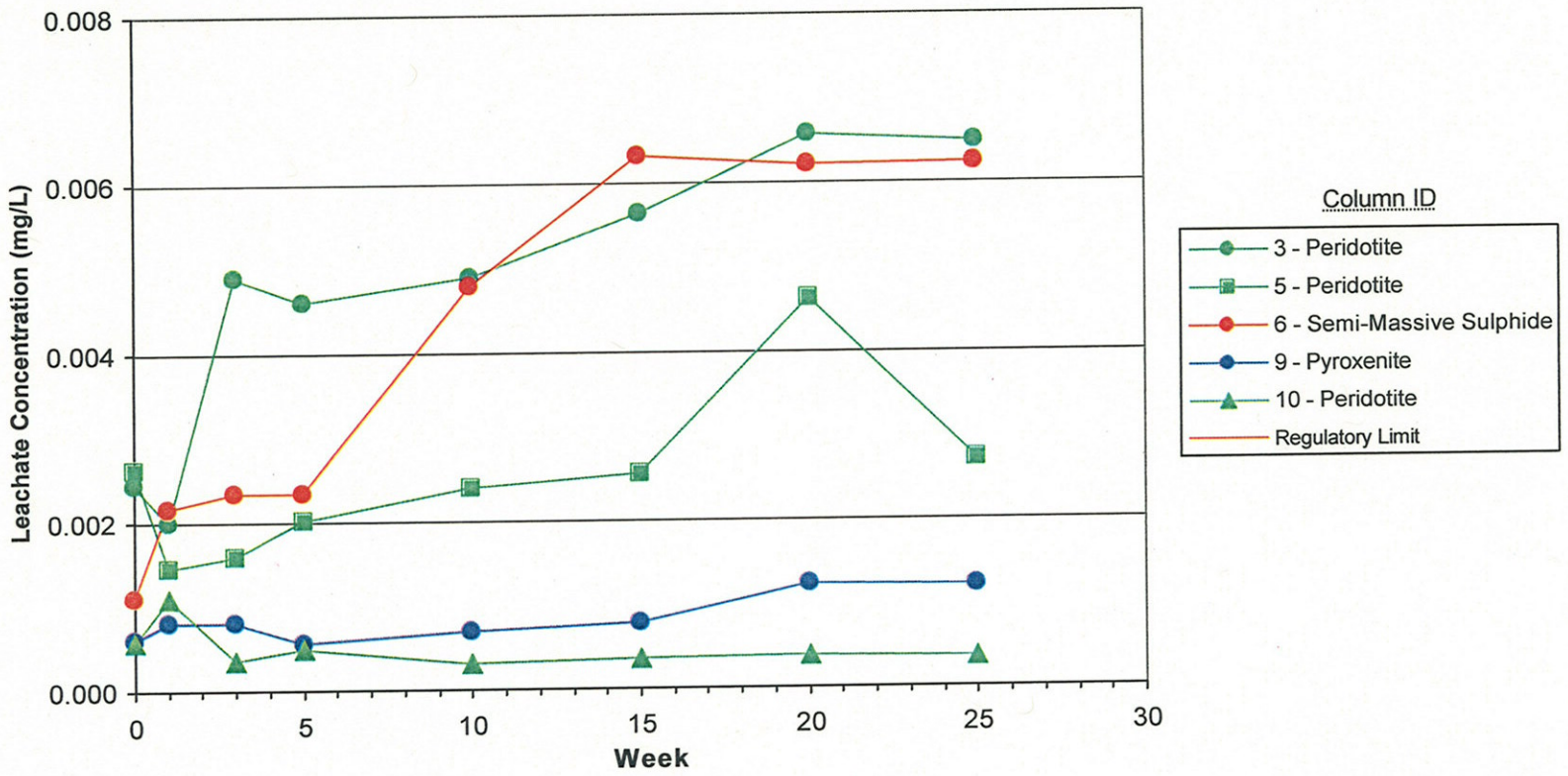
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Antimony**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. B.2-44	



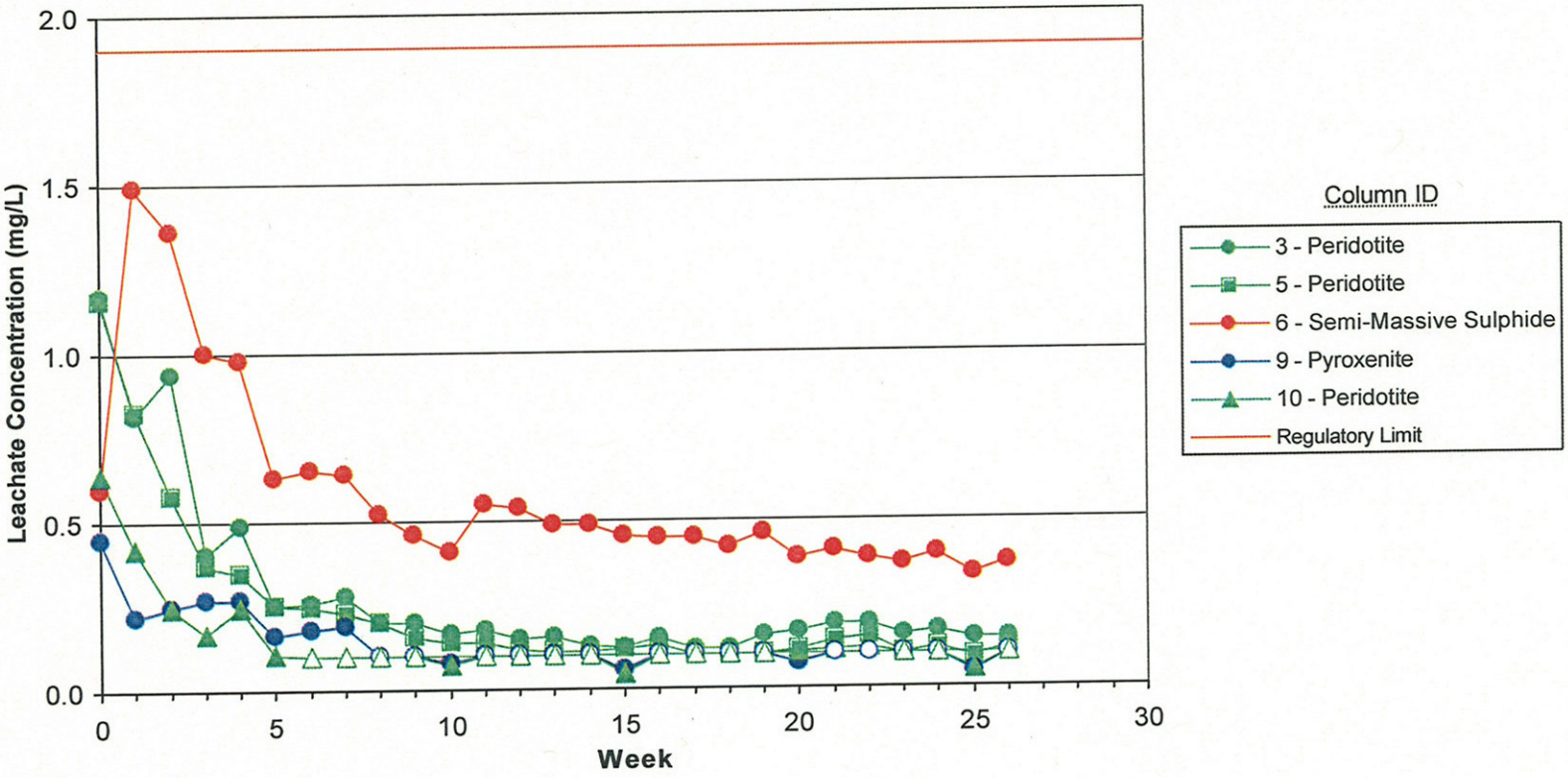
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Arsenic**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. **B.2-45**	



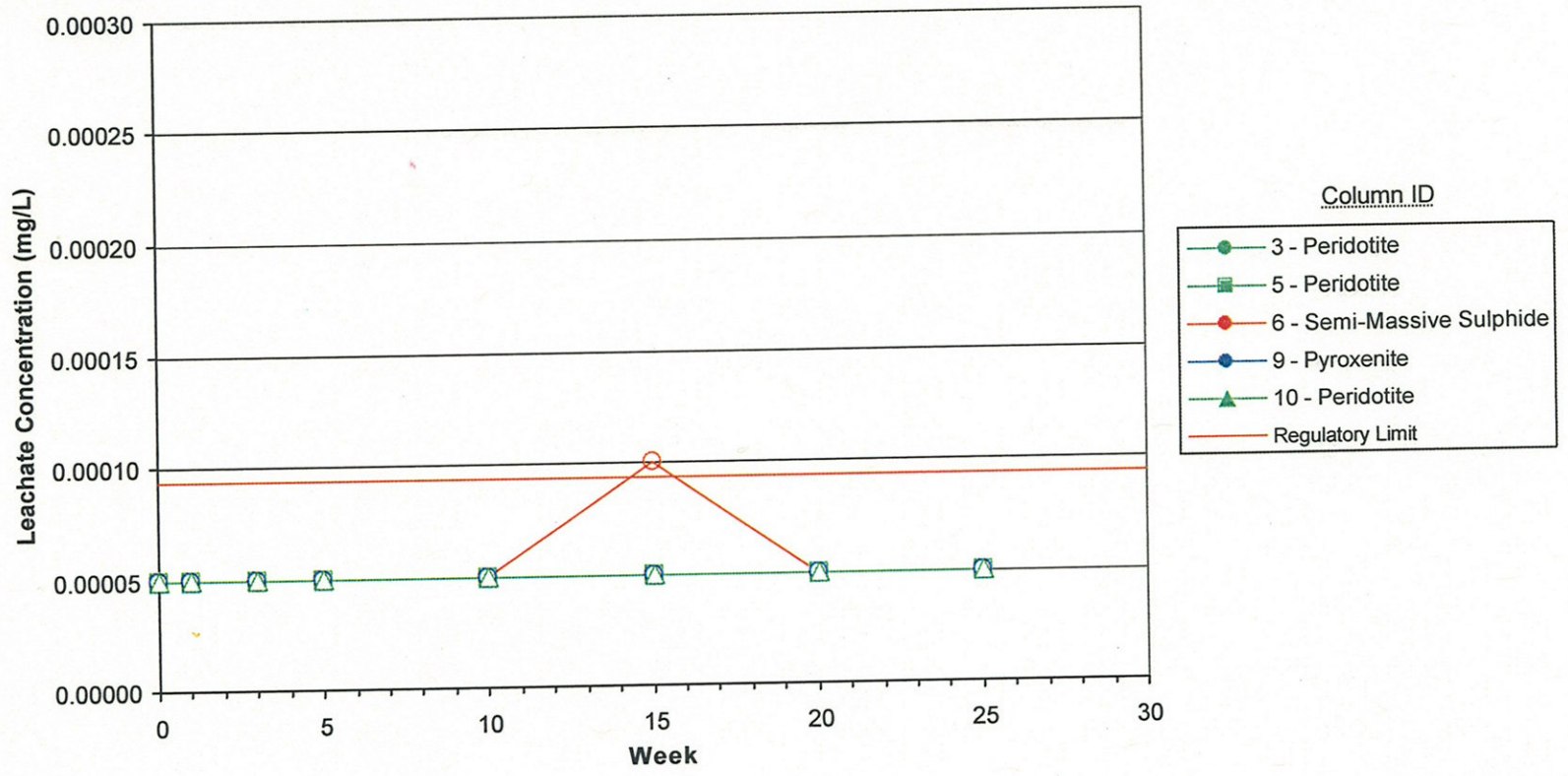
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Barium**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. **B.2-46**	



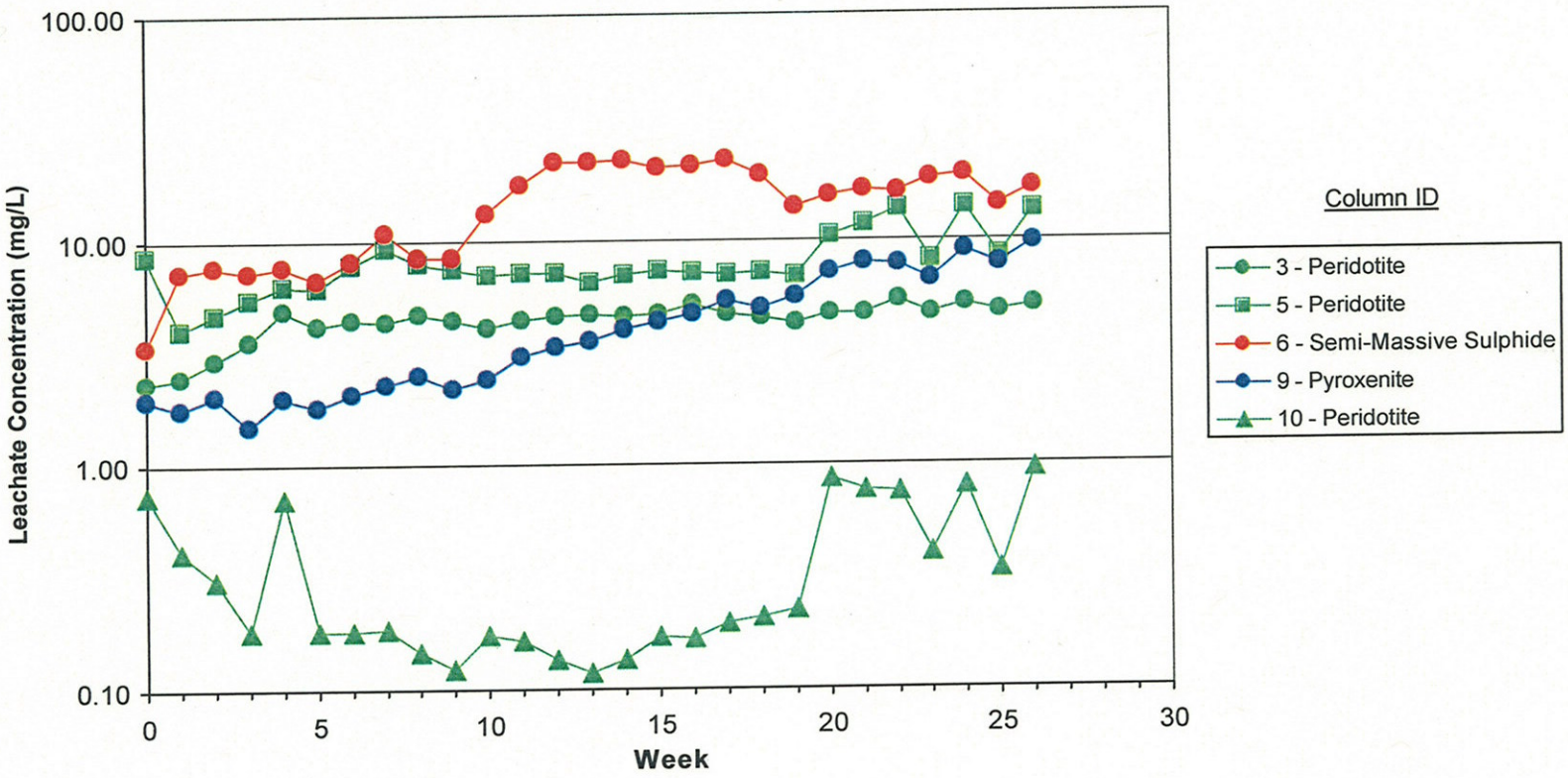
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Boron**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. **B.2-47**	



Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Cadmium**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. **B.2-48**	

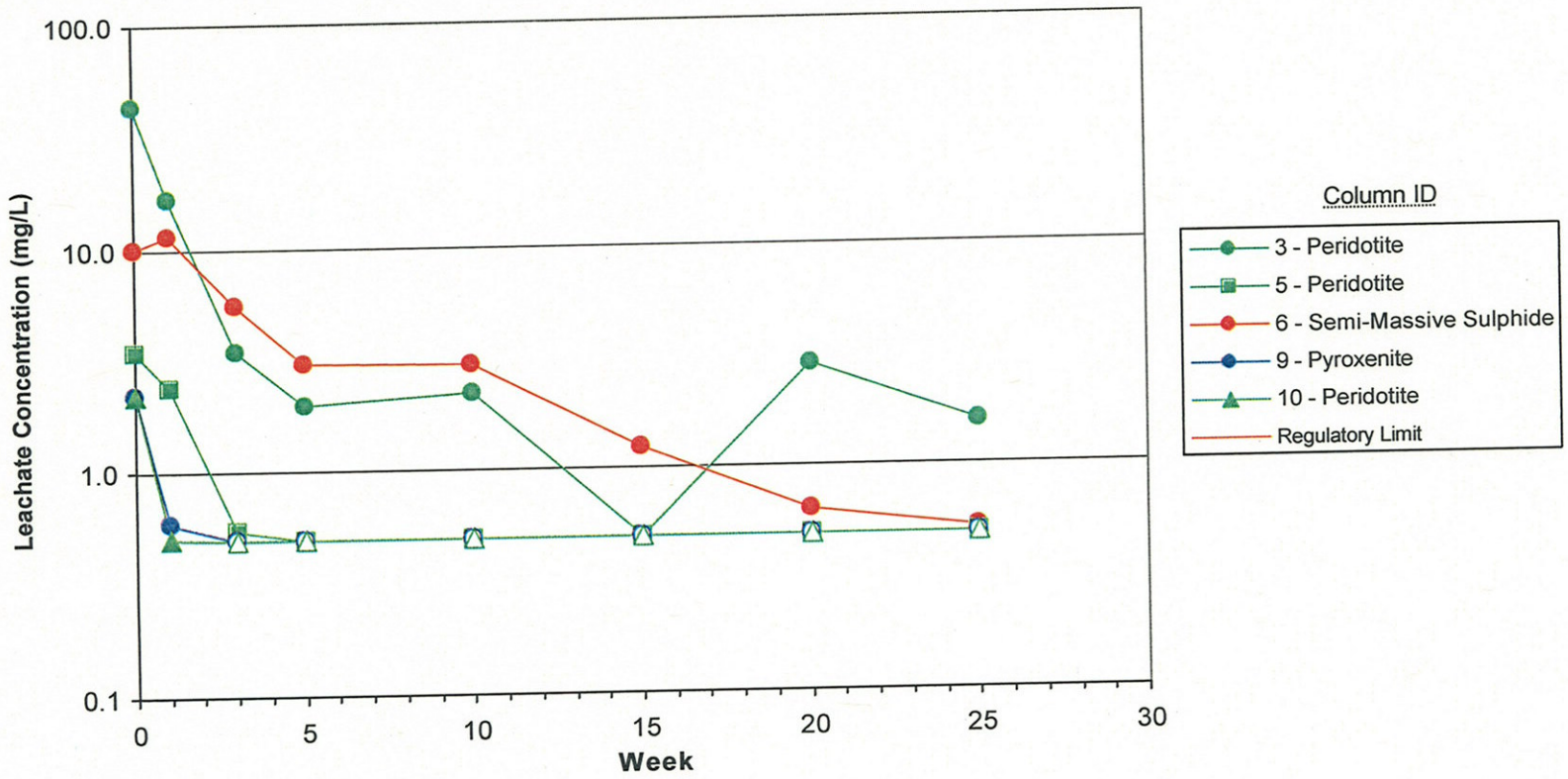


Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine
Phase II Kinetic Testing

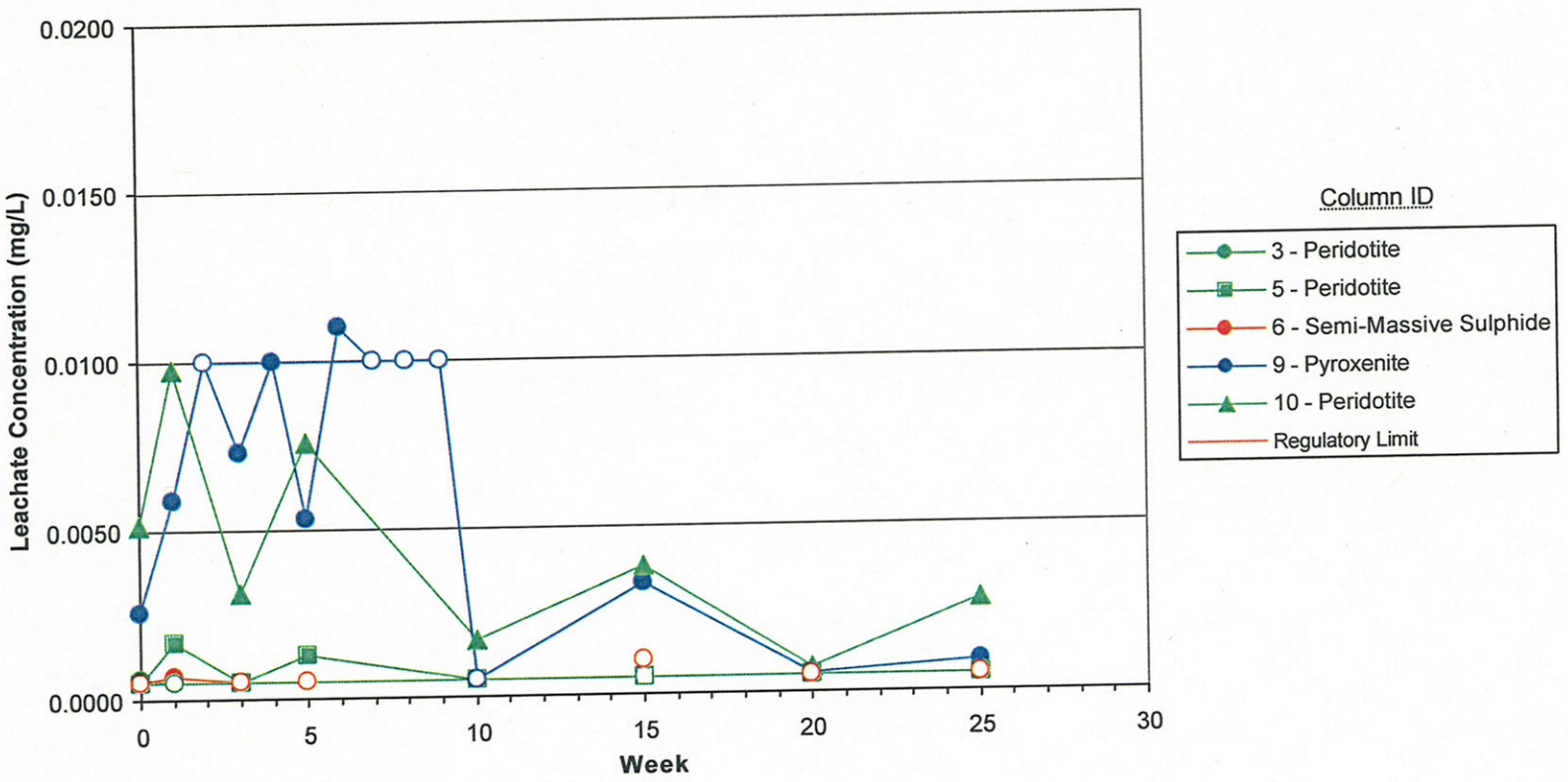
TITLE **Intrusive Suite Results - Calcium**

DRAWN	TB	DATE	April 2005	JOB NO.	043-1055
CHECKED	VR	SCALE	na	DWG. NO.	
REVIEWED	ML	FILE NO.	Phase II Kinetic Intrusive Week26.xls	FIGURE NO.	B.2-49



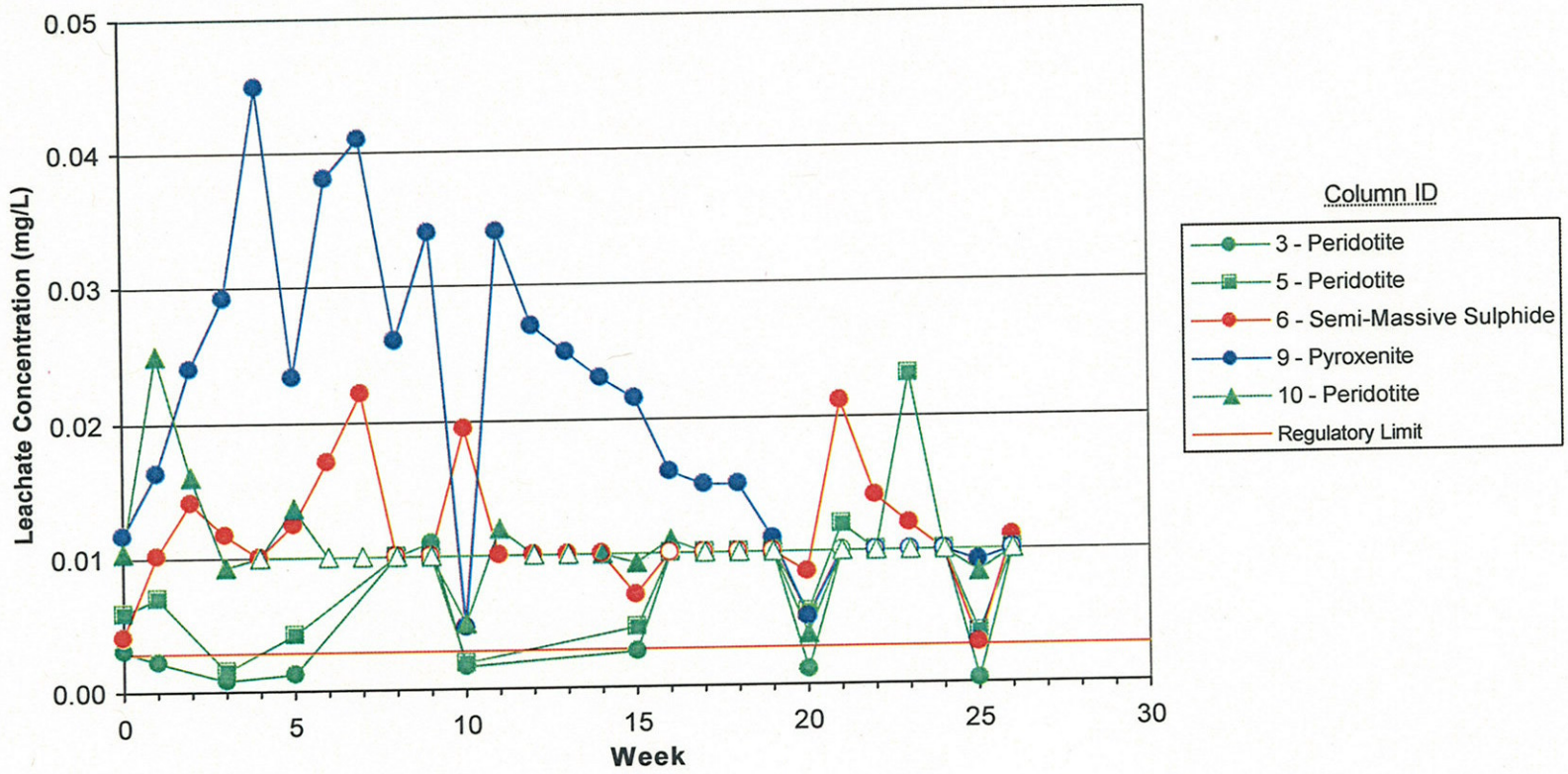
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Chloride**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. **B.2-50**	



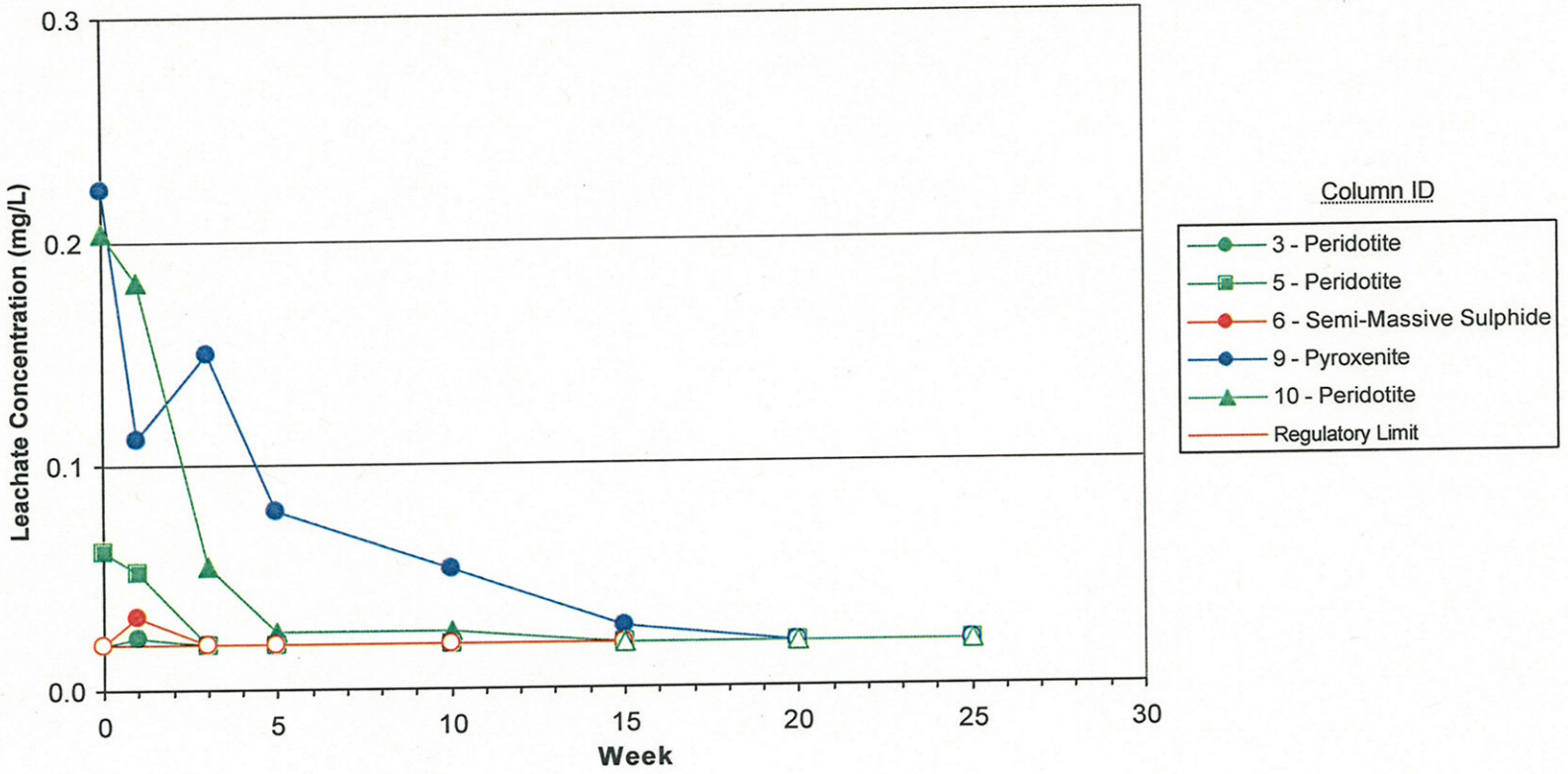
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Chromium**			
	DRAWN	TB	DATE	April 2005	JOB NO. 043-1055
	CHECKED	VR	SCALE	na	DWG. NO.
	REVIEWED	ML	FILE NO.	Phase II Kinetic Intrusive Week26.xls	FIGURE NO. B.2-51



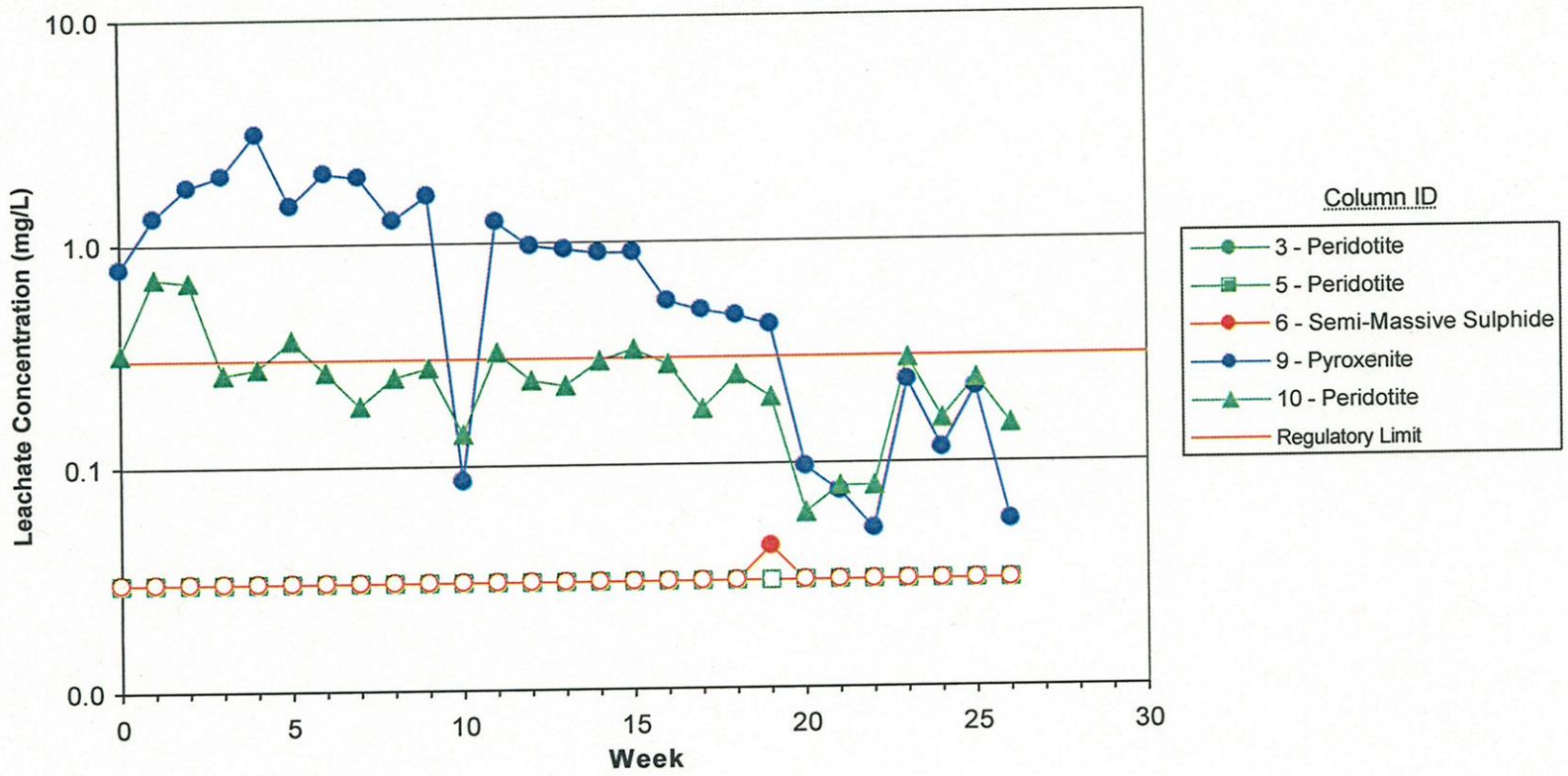
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Copper**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. **B.2-53**	



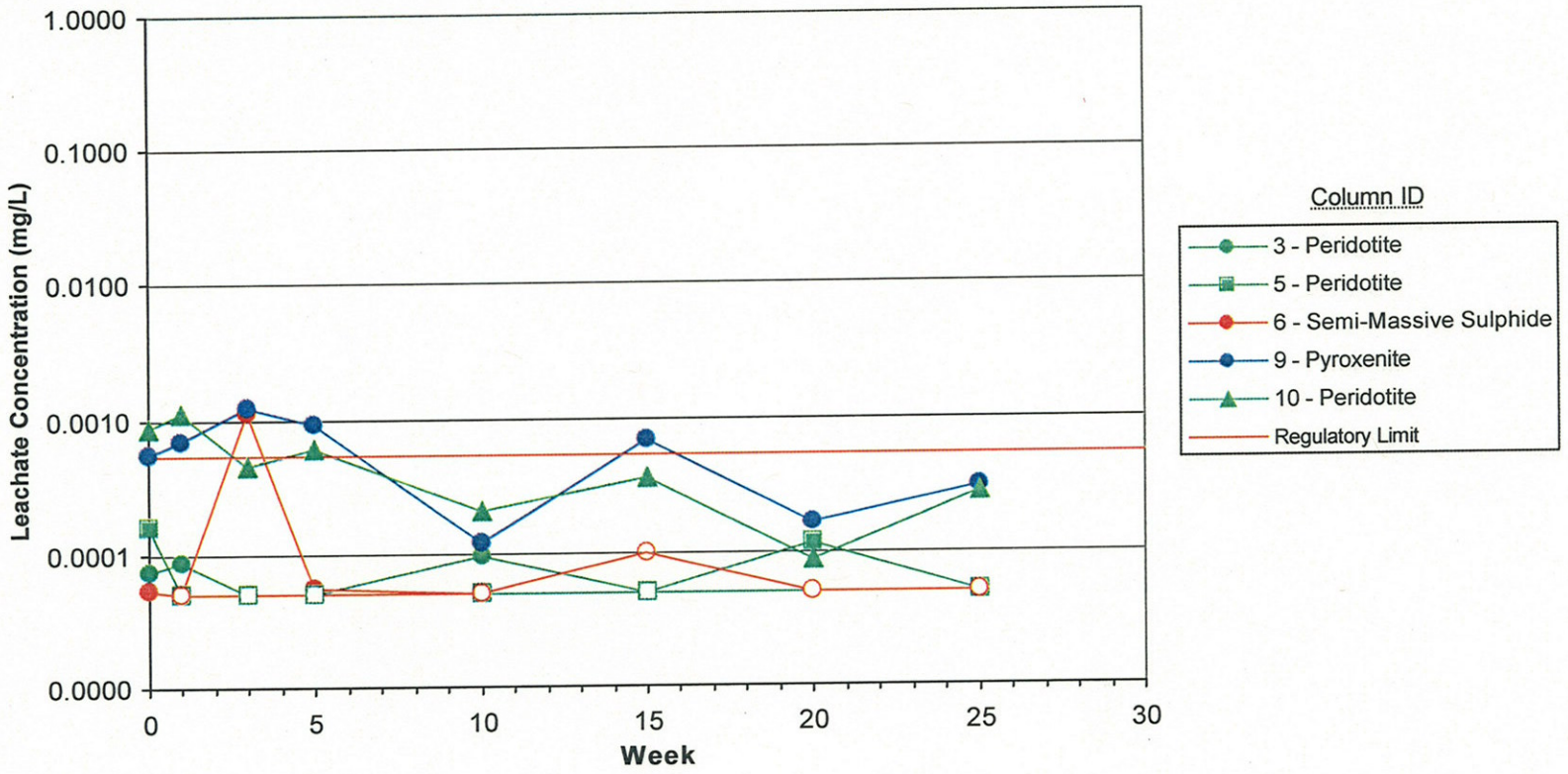
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Fluoride**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. **B.2-54**	



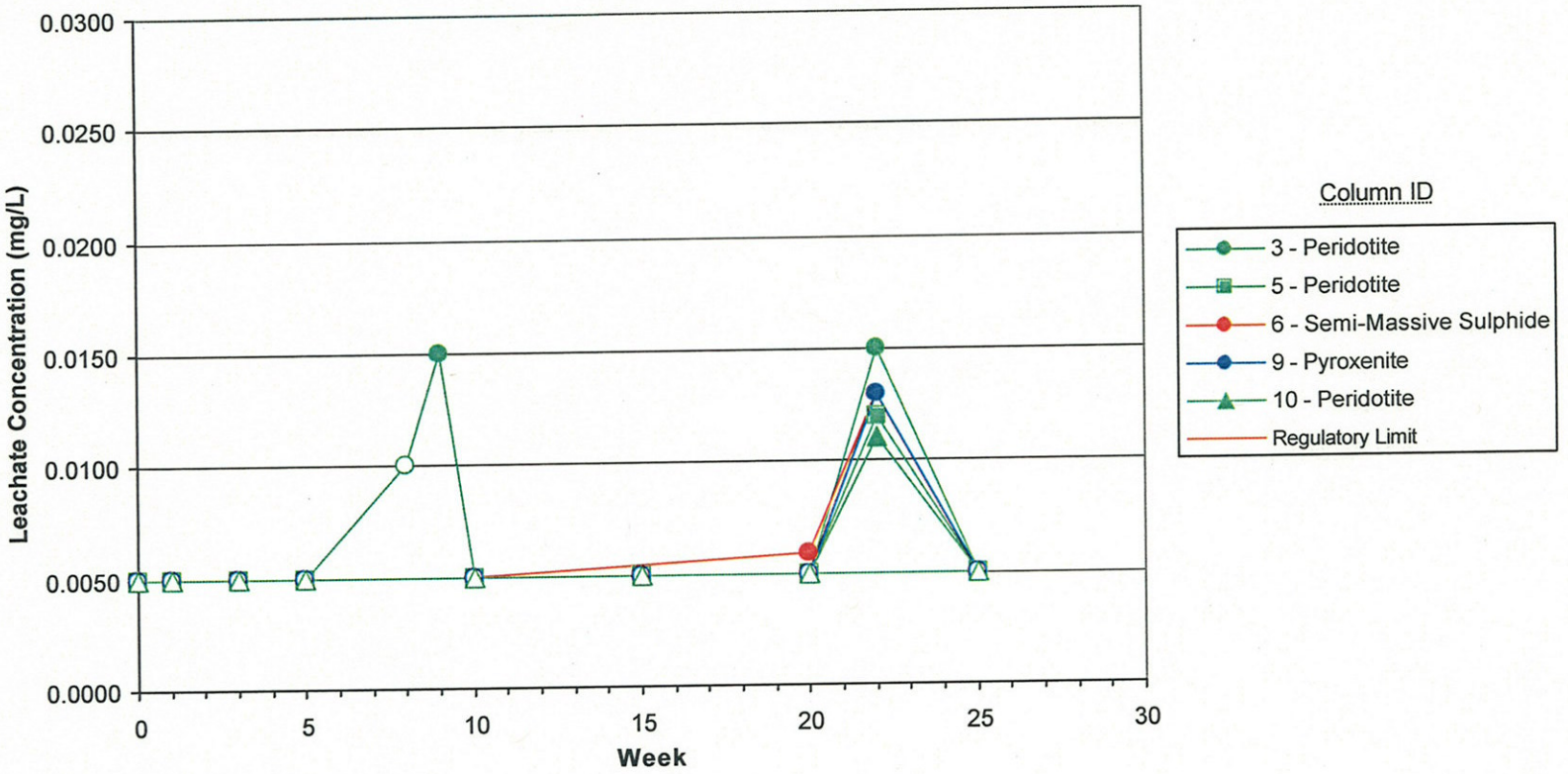
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Iron**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. **B.2-55**	



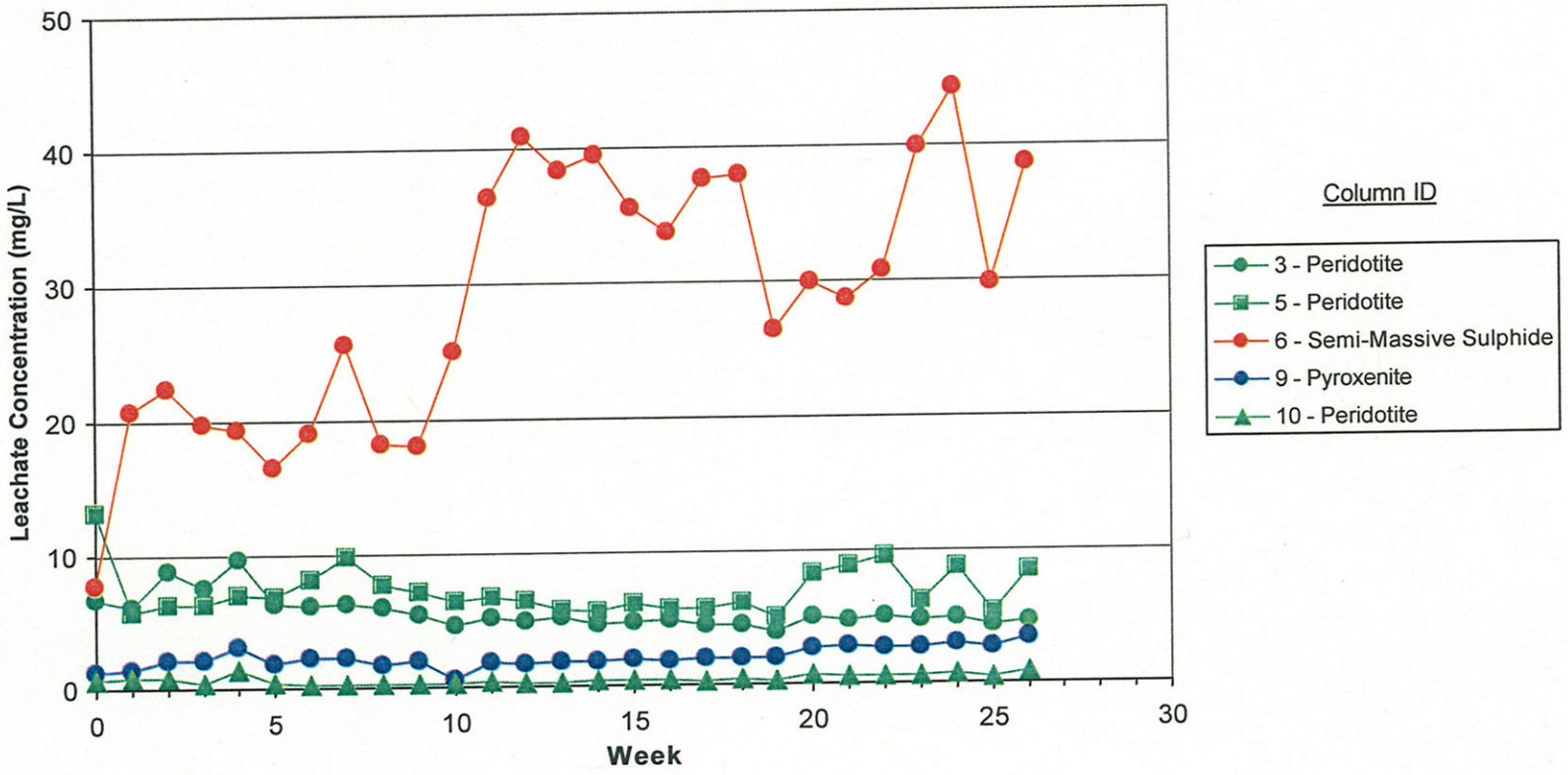
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Lead**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. **B.2-56**	



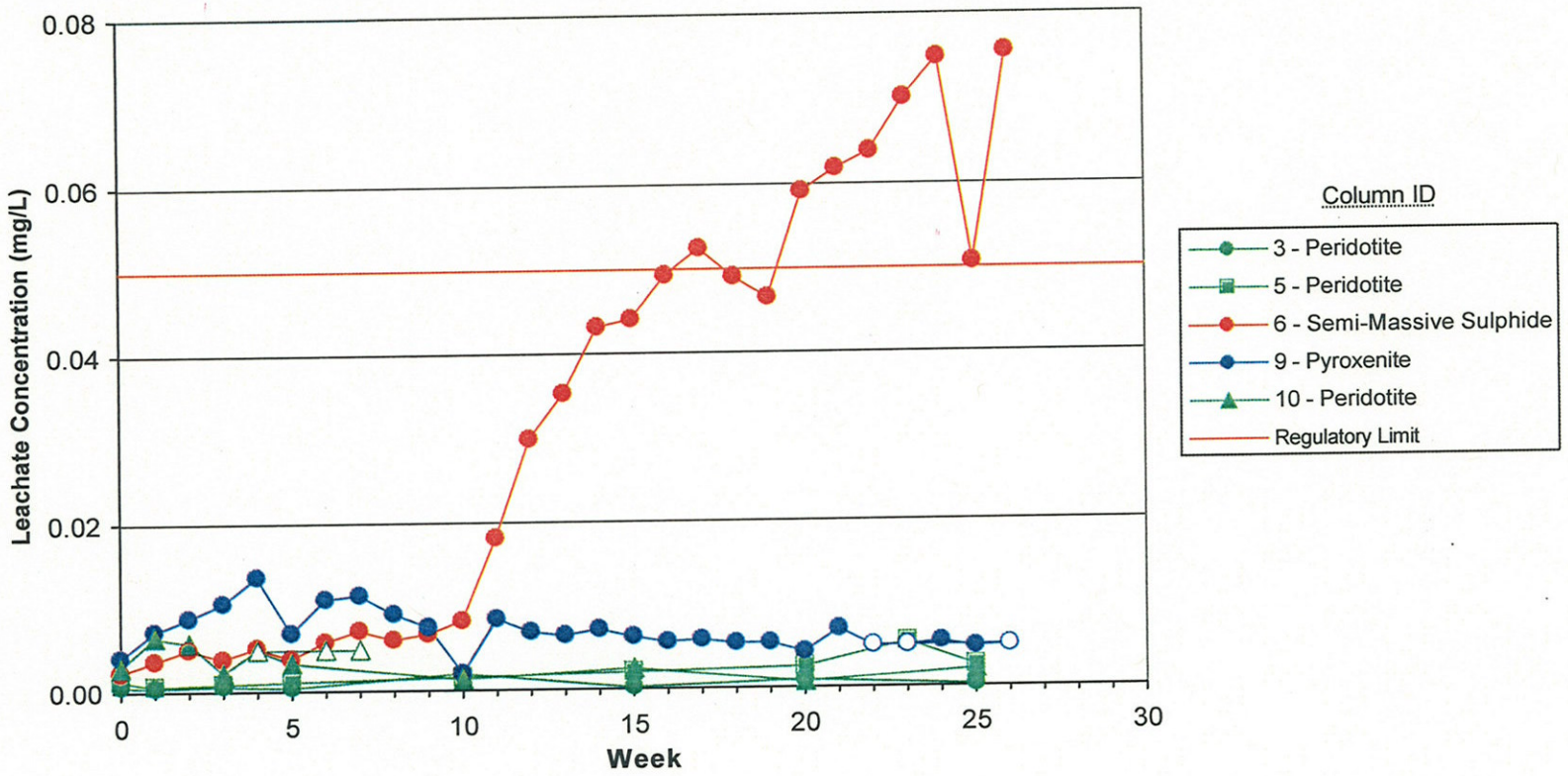
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Lithium**			
	DRAWN	TB	DATE	April 2005	JOB NO. 043-1055
	CHECKED	VR	SCALE	na	DWG. NO.
	REVIEWED	ML	FILE NO.	Phase II Kinetic Intrusive Week26.xls	FIGURE NO. B.2-57



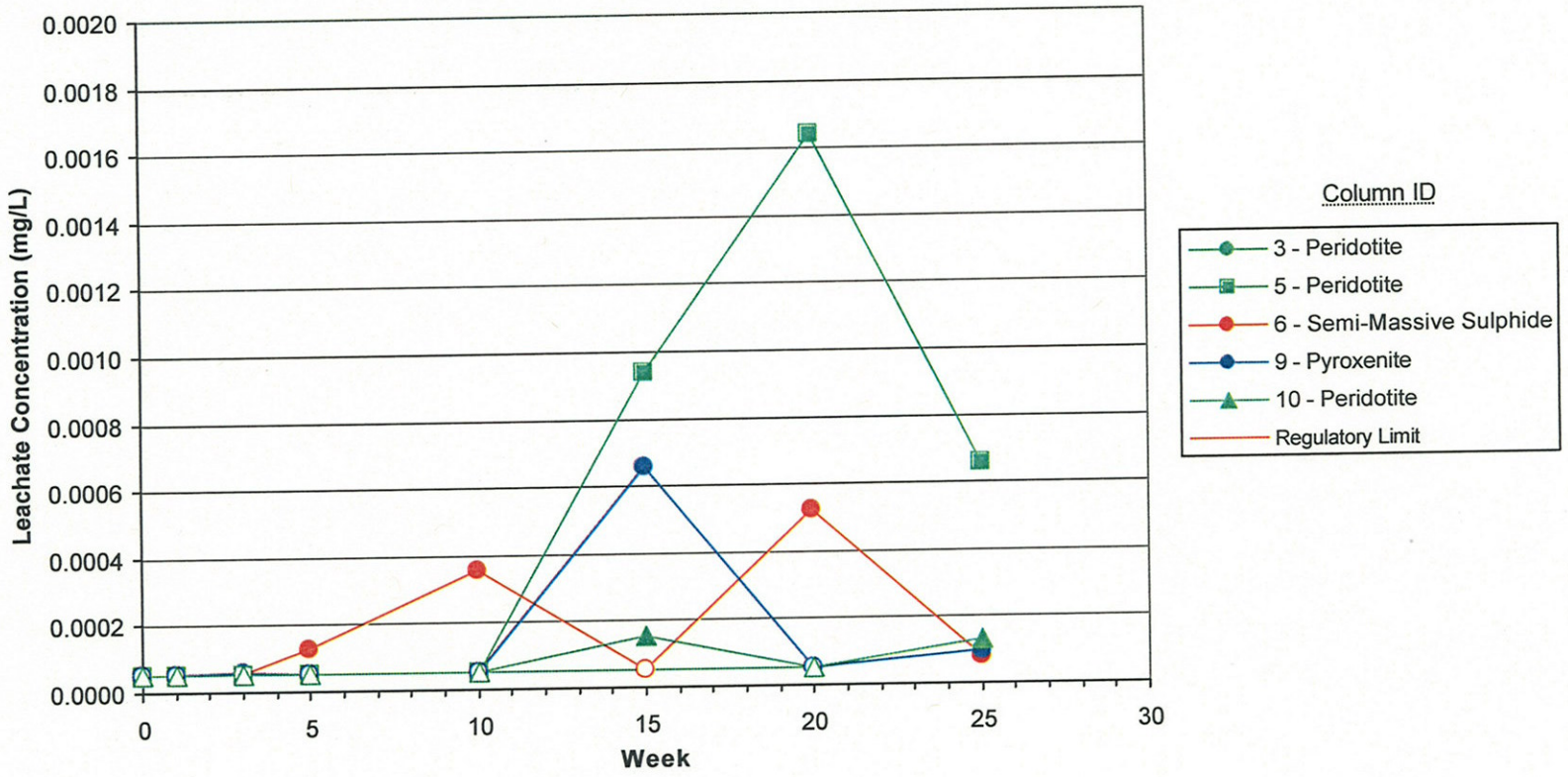
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Magnesium**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. **B.2-58**	



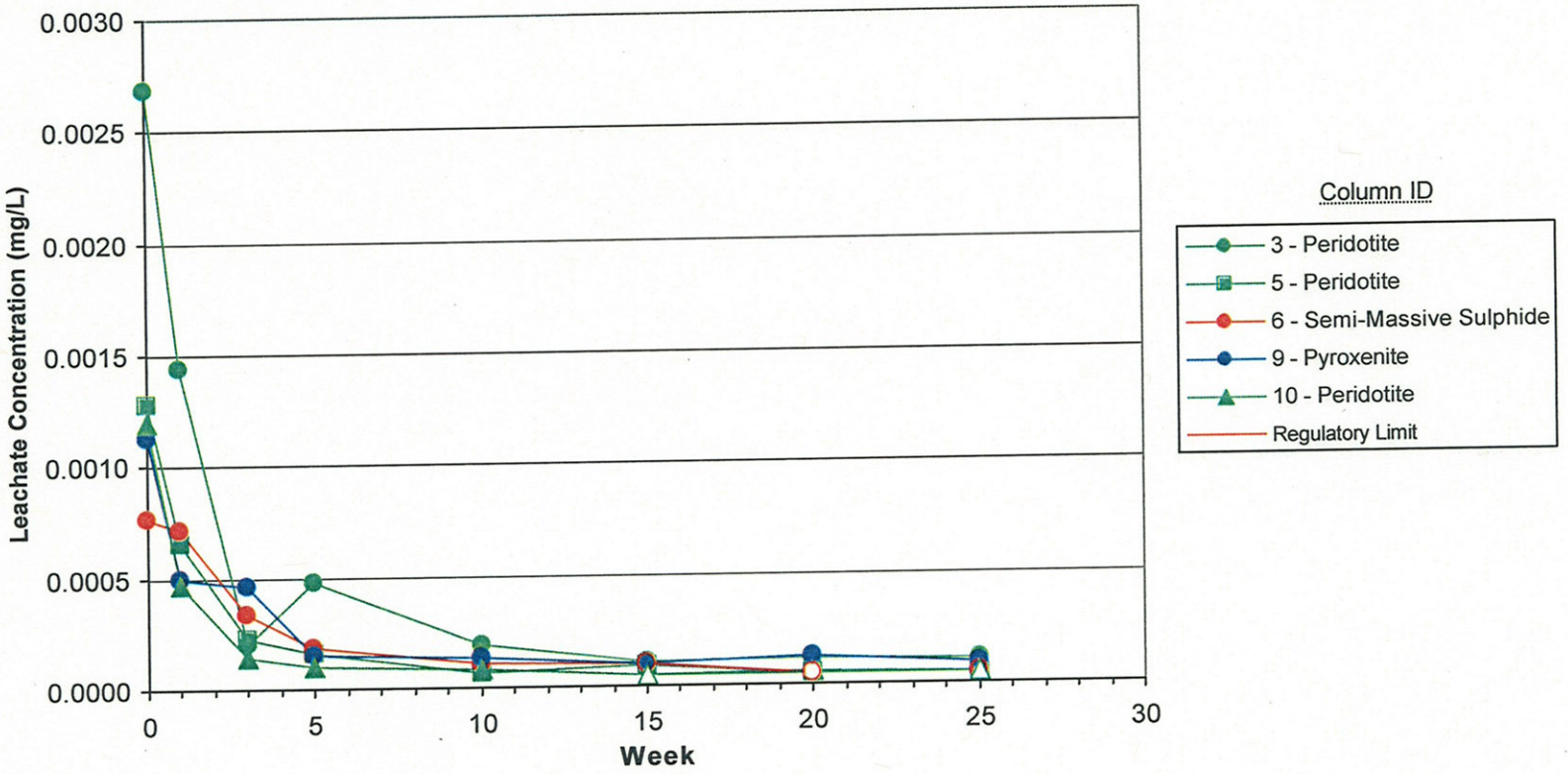
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Manganese**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. **B.2-59**	



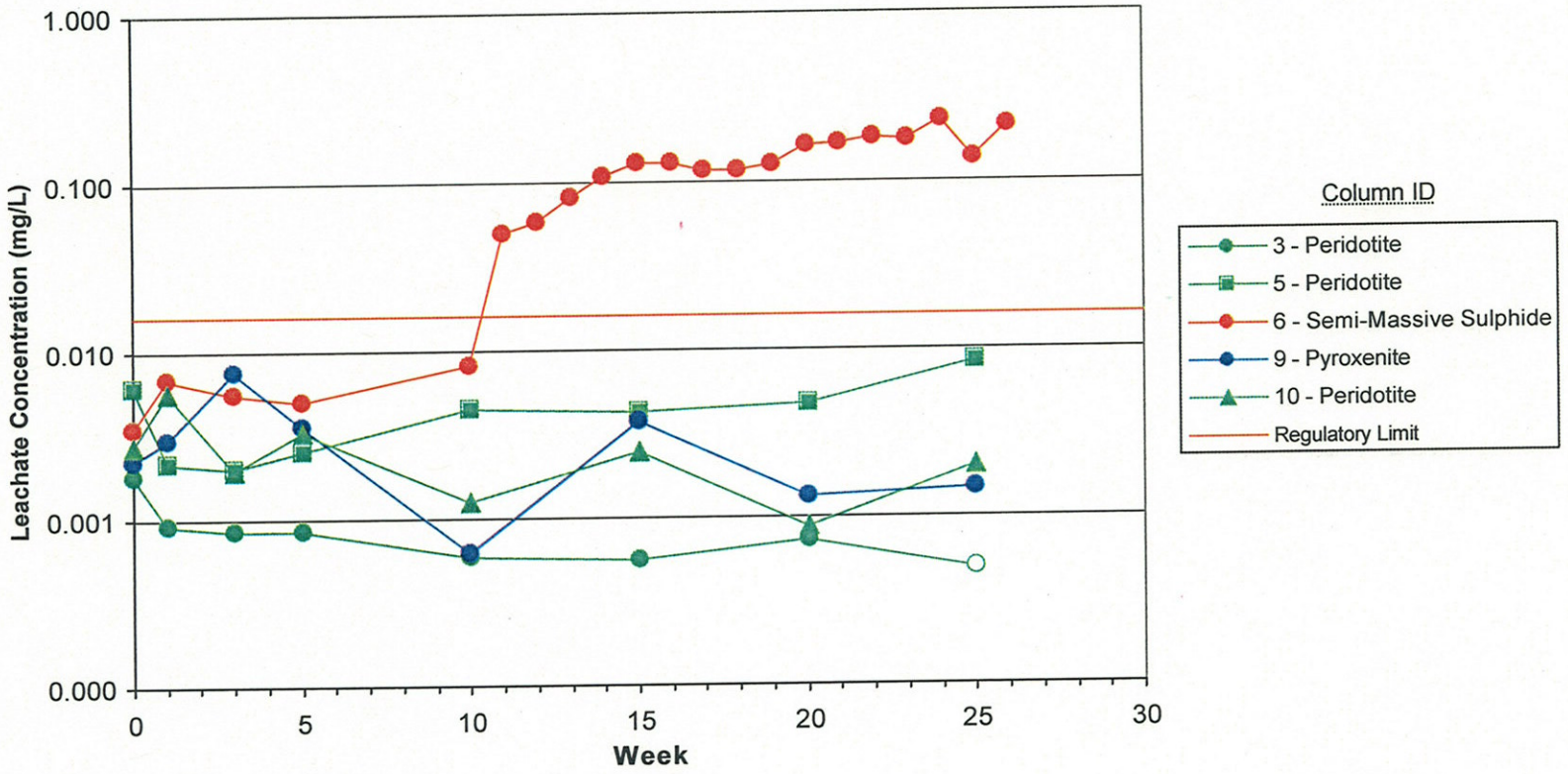
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Mercury**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. **B.2-60**	



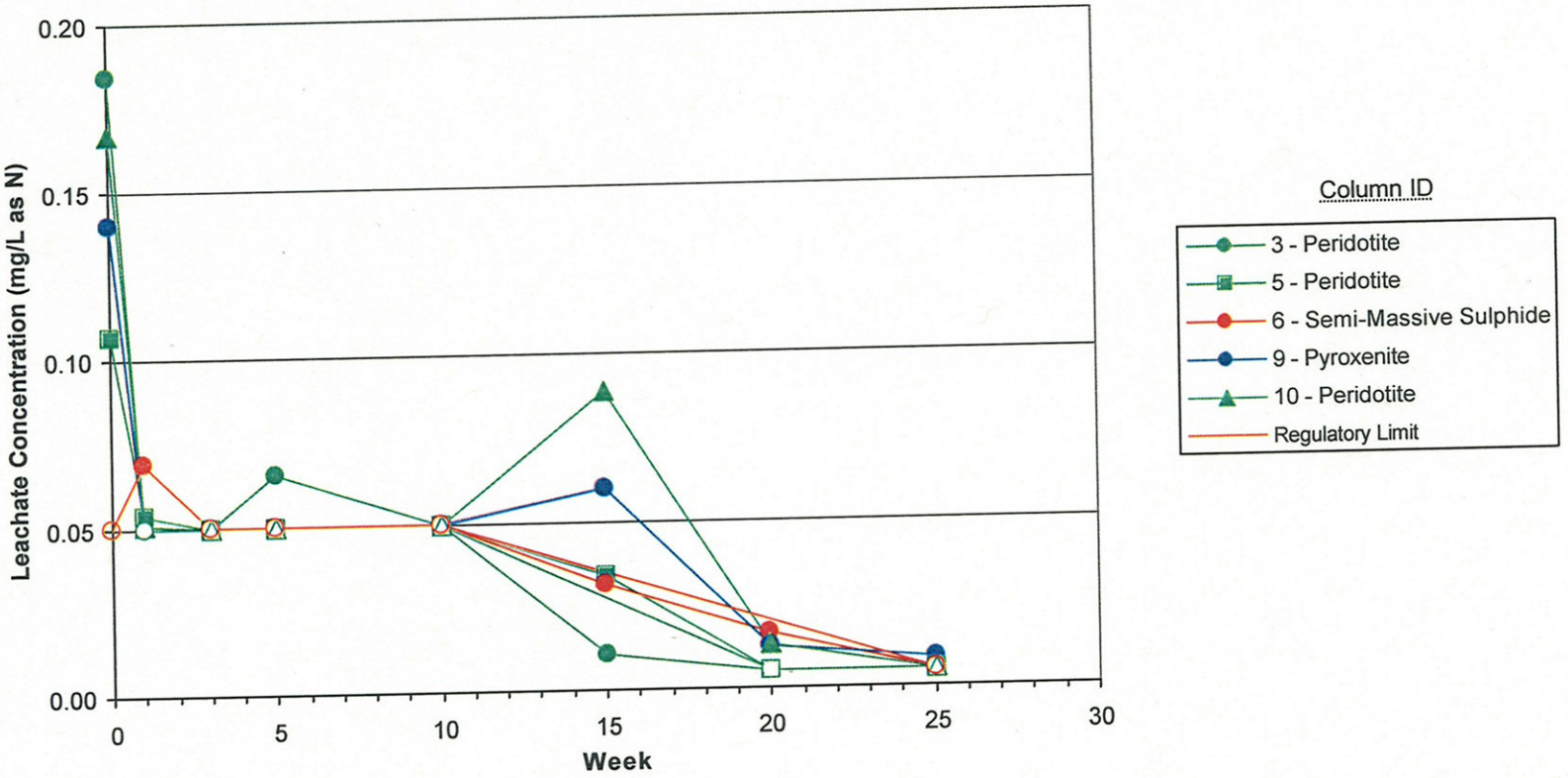
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Molybdenum**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. **B.2-61**	



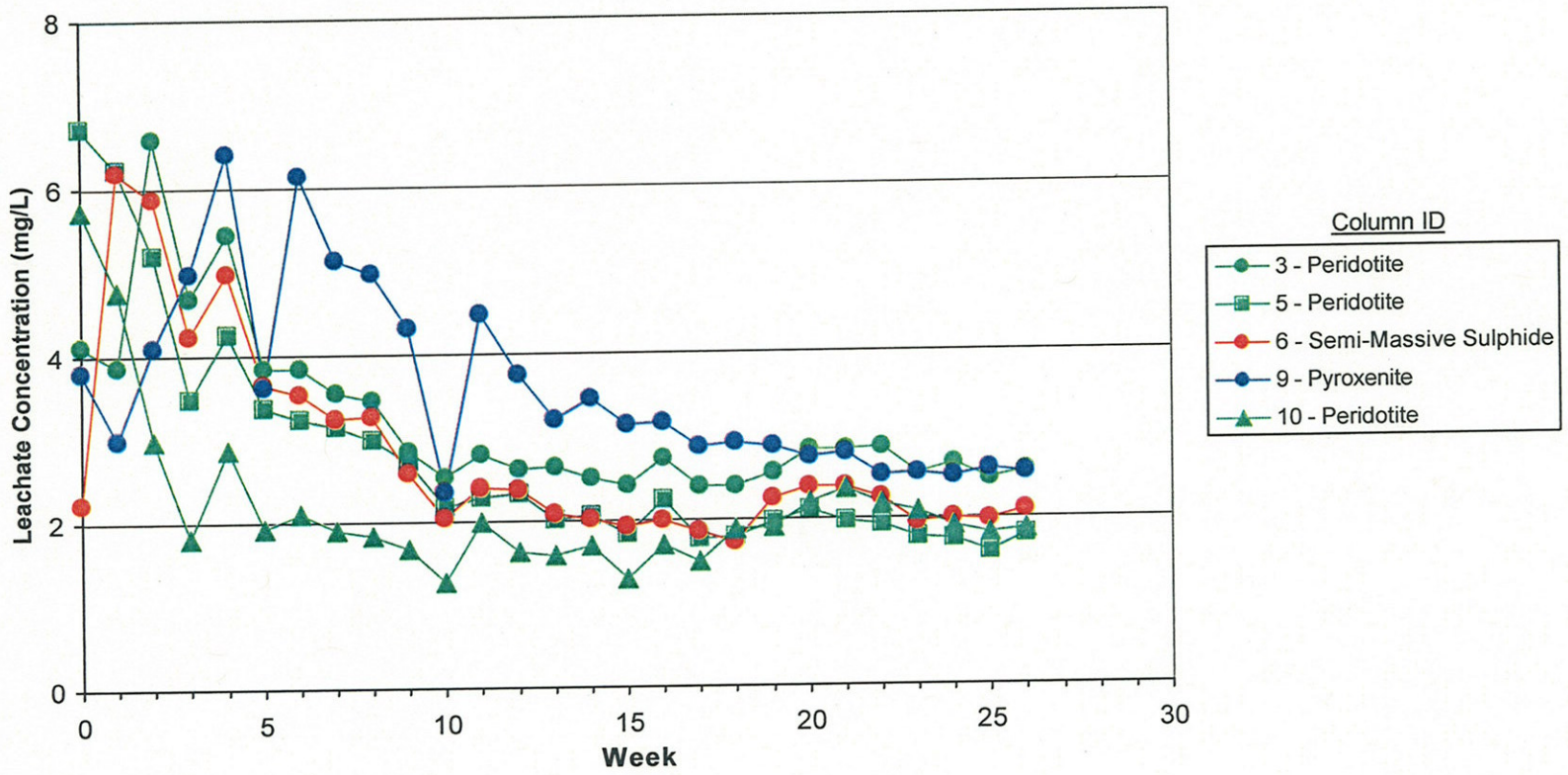
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Nickel**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. **B.2-62**	



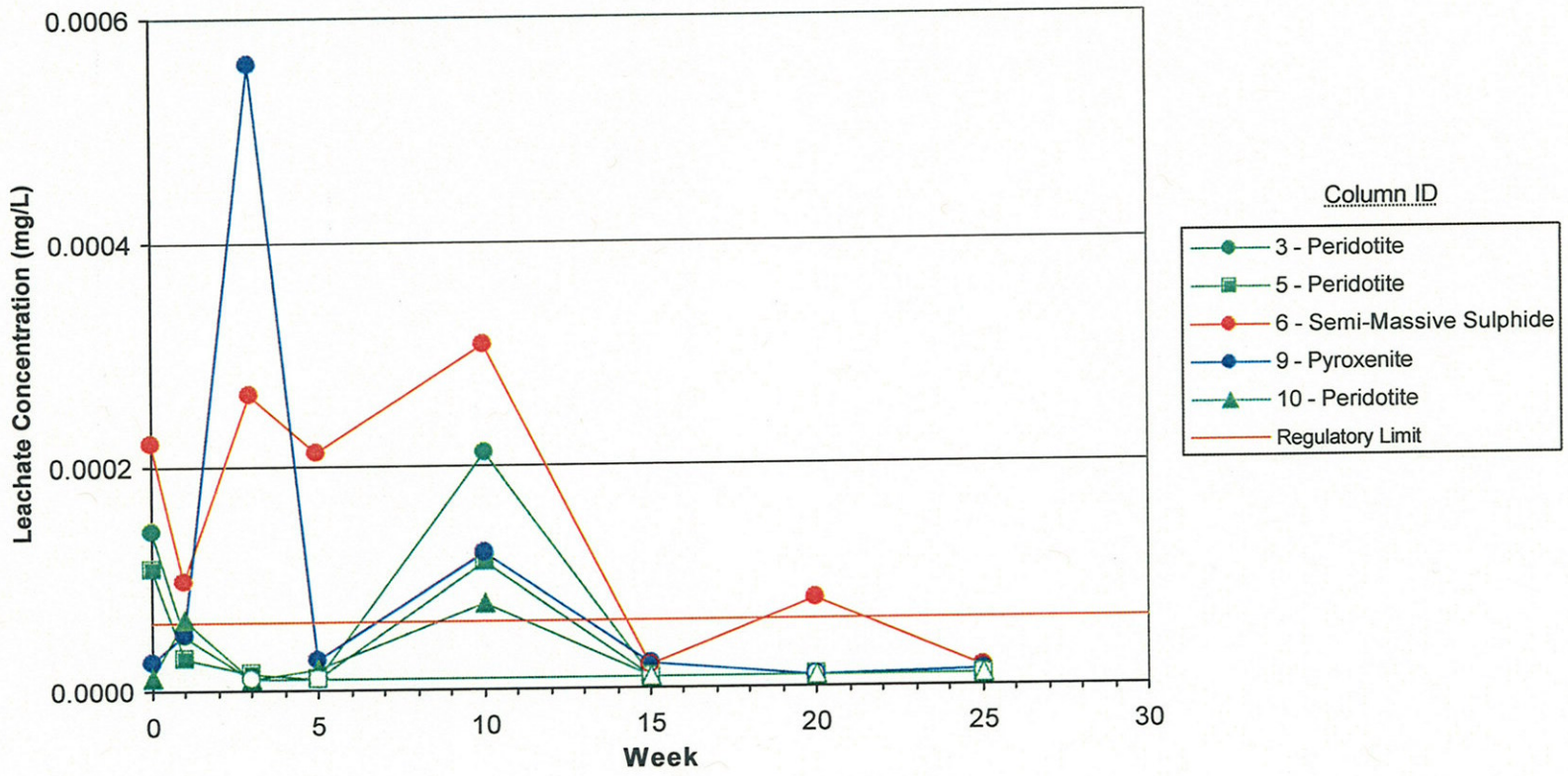
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Nitrite/Nitrate**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. B.2-63	



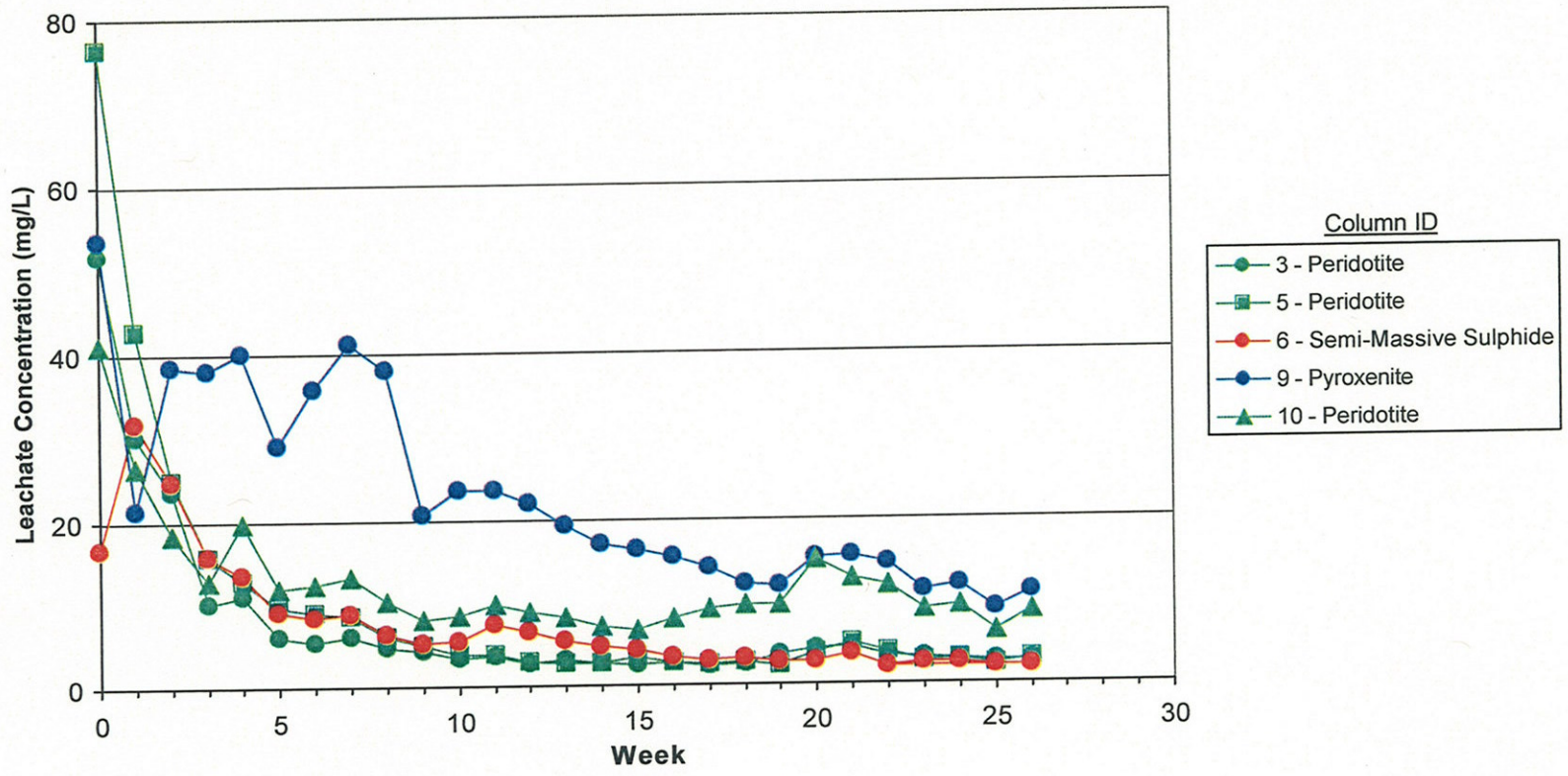
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Silicon**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. **B.2-66**	



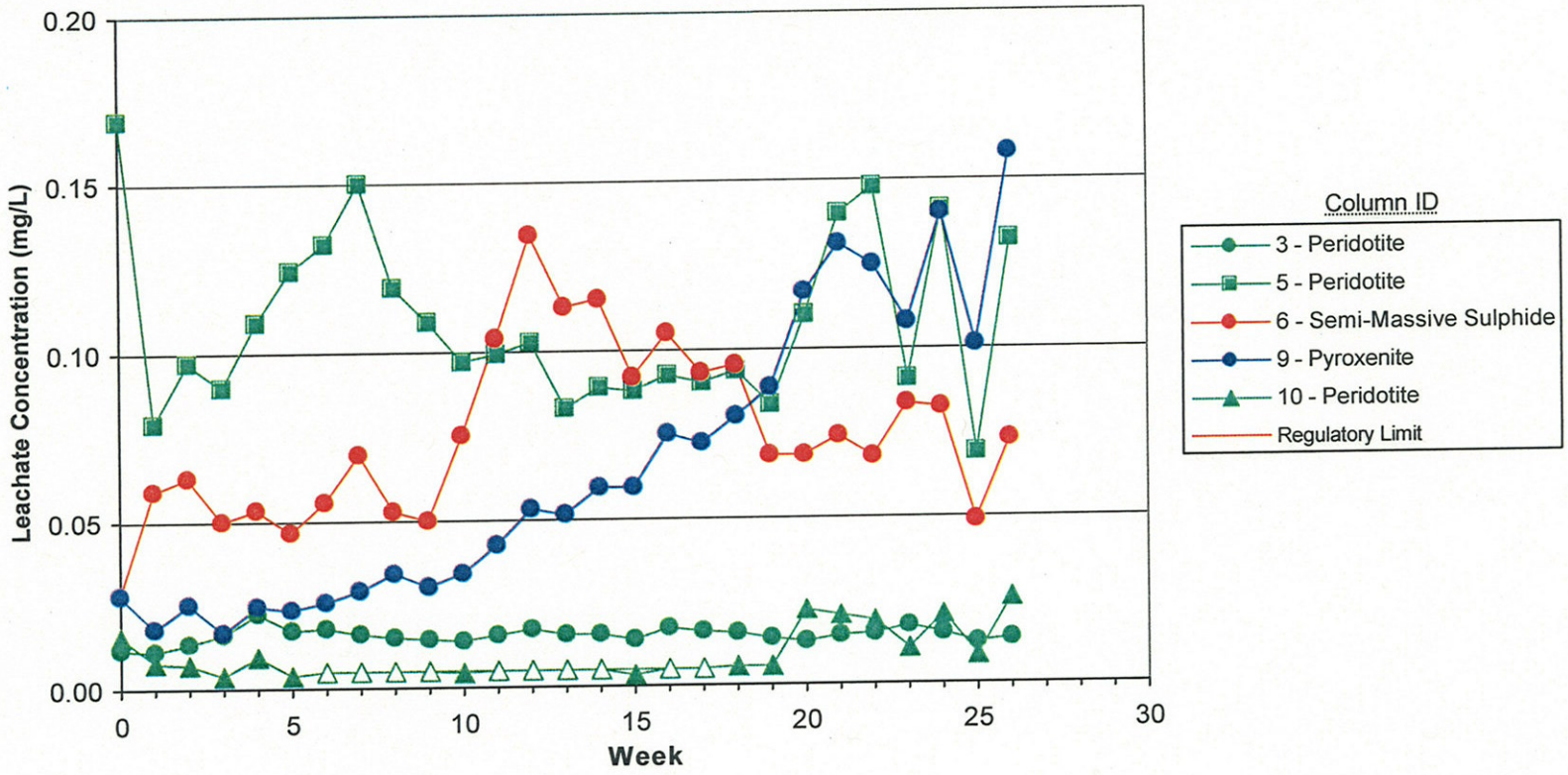
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Silver**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. **B.2-67**	



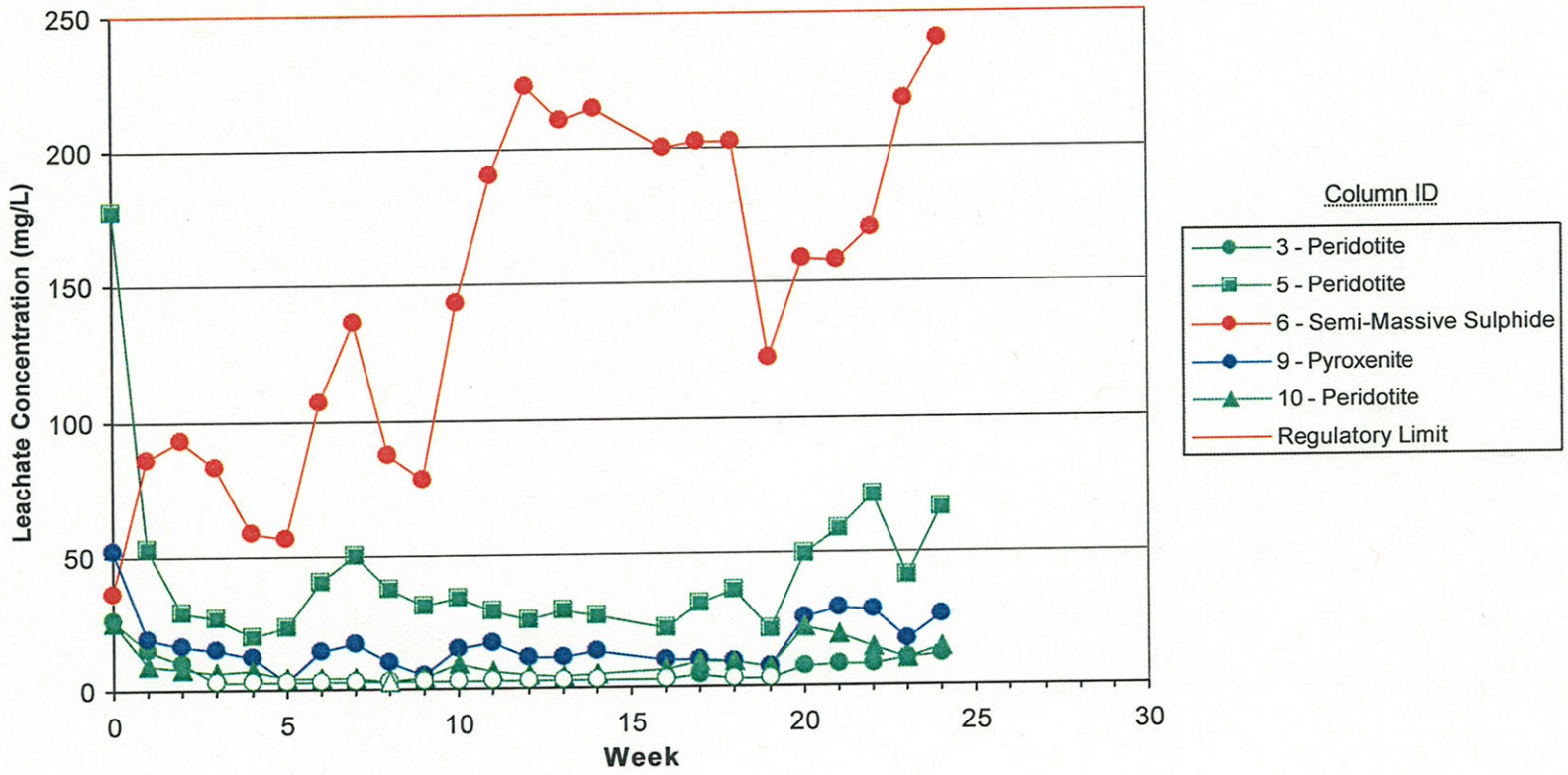
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Sodium**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. **B.2-68**	



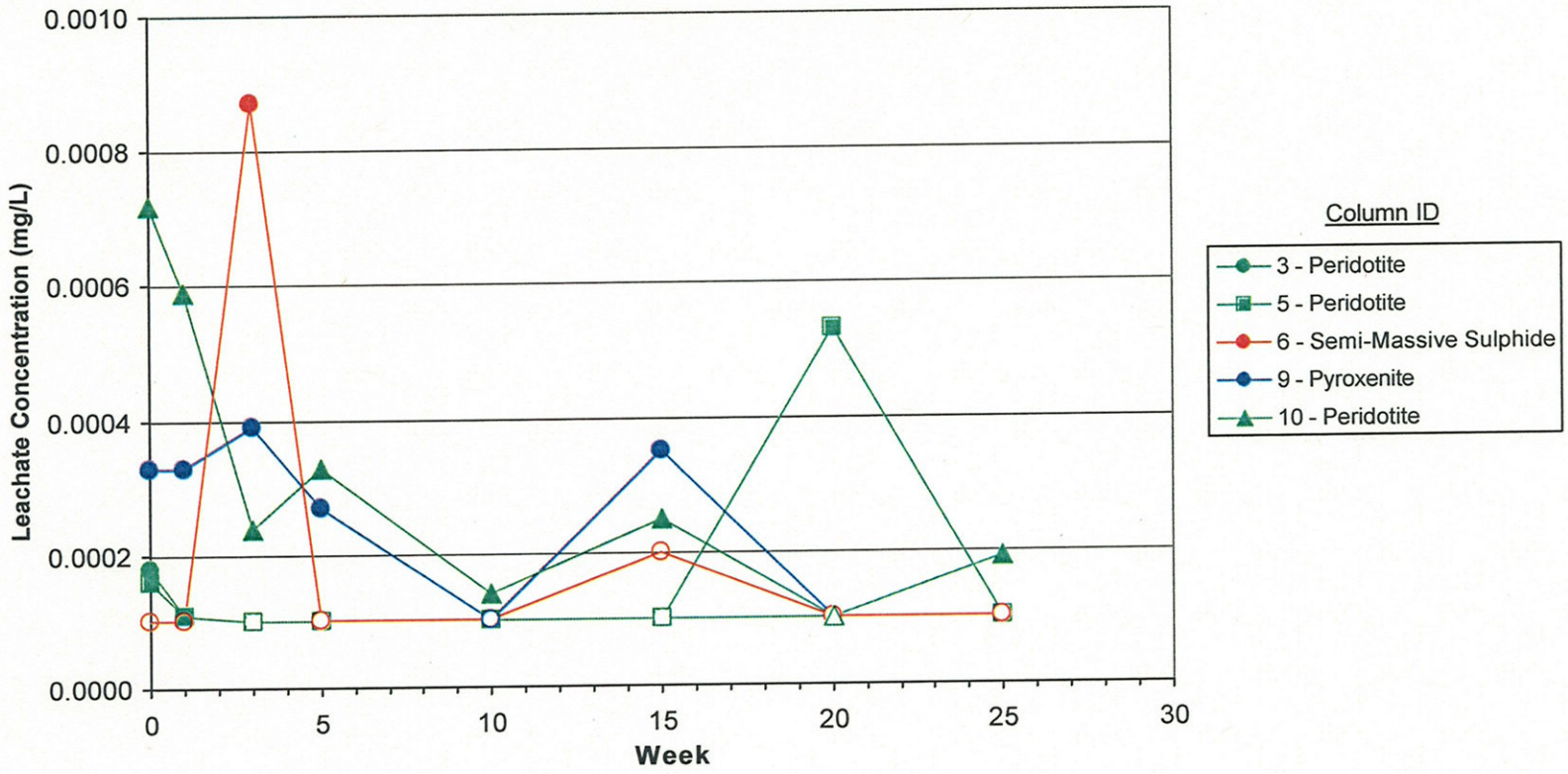
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Strontium**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. **B.2-69**	



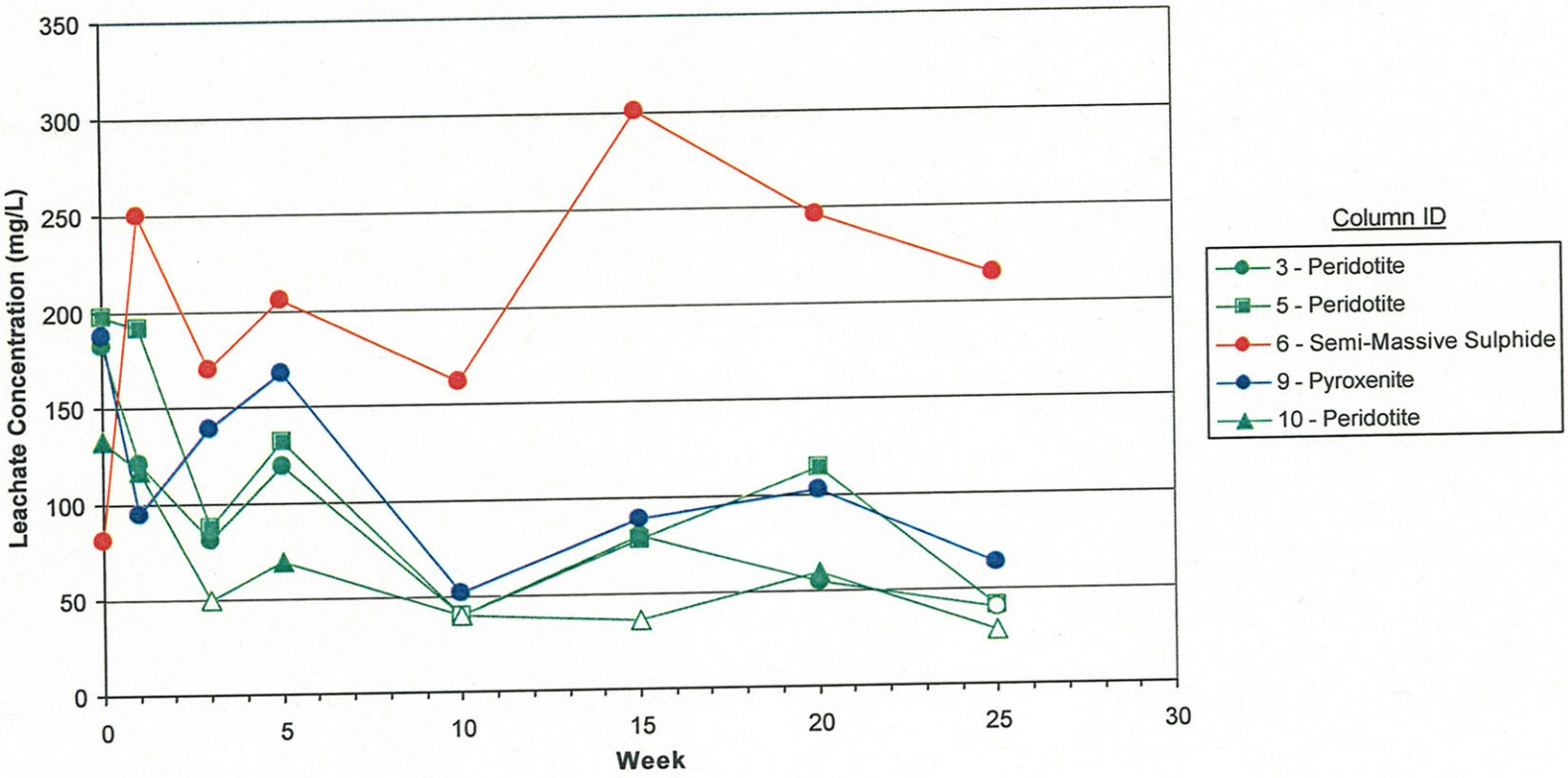
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Sulfate**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. **B.2-70**	



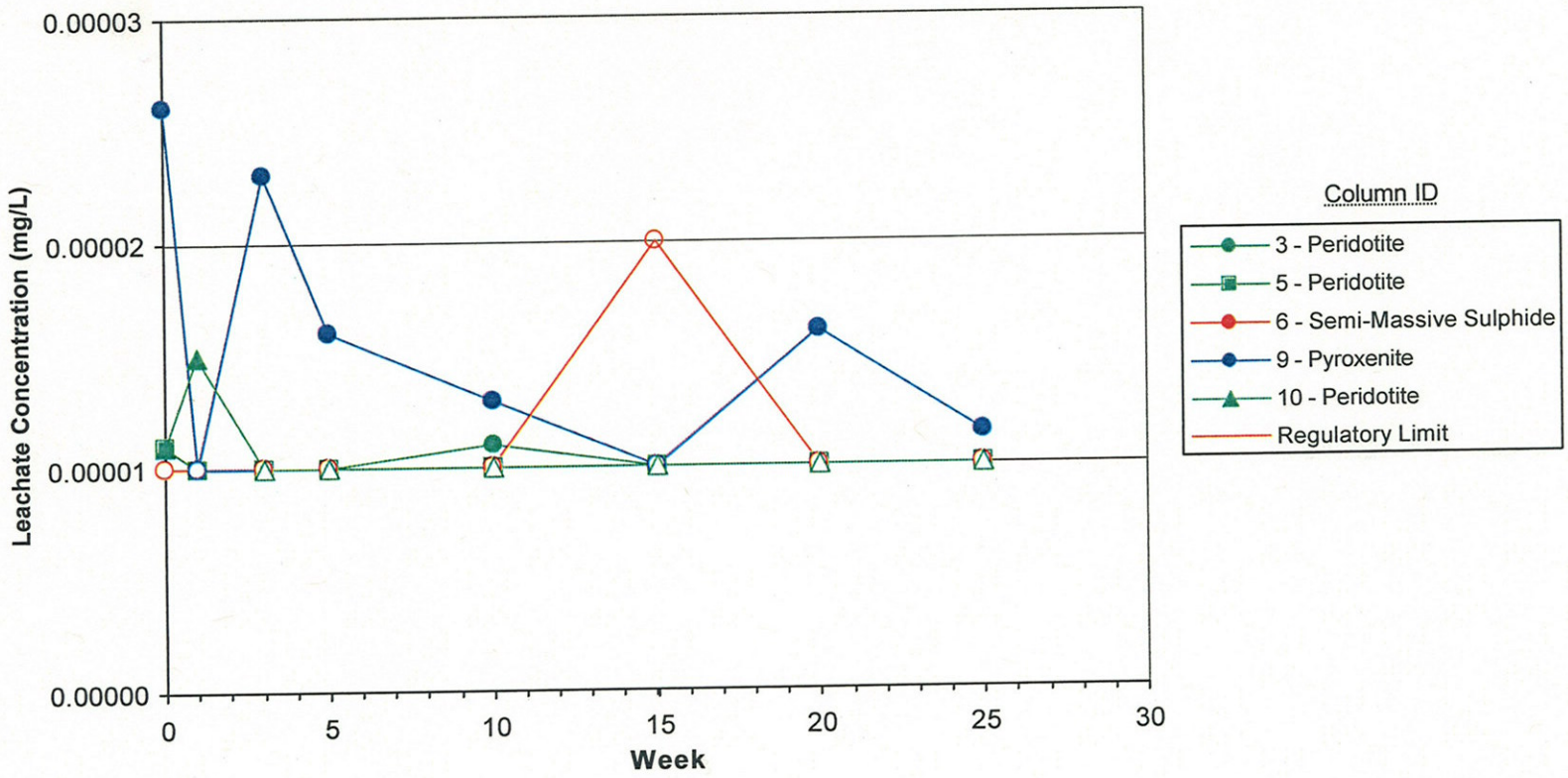
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Tin**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. **B.2-71**	



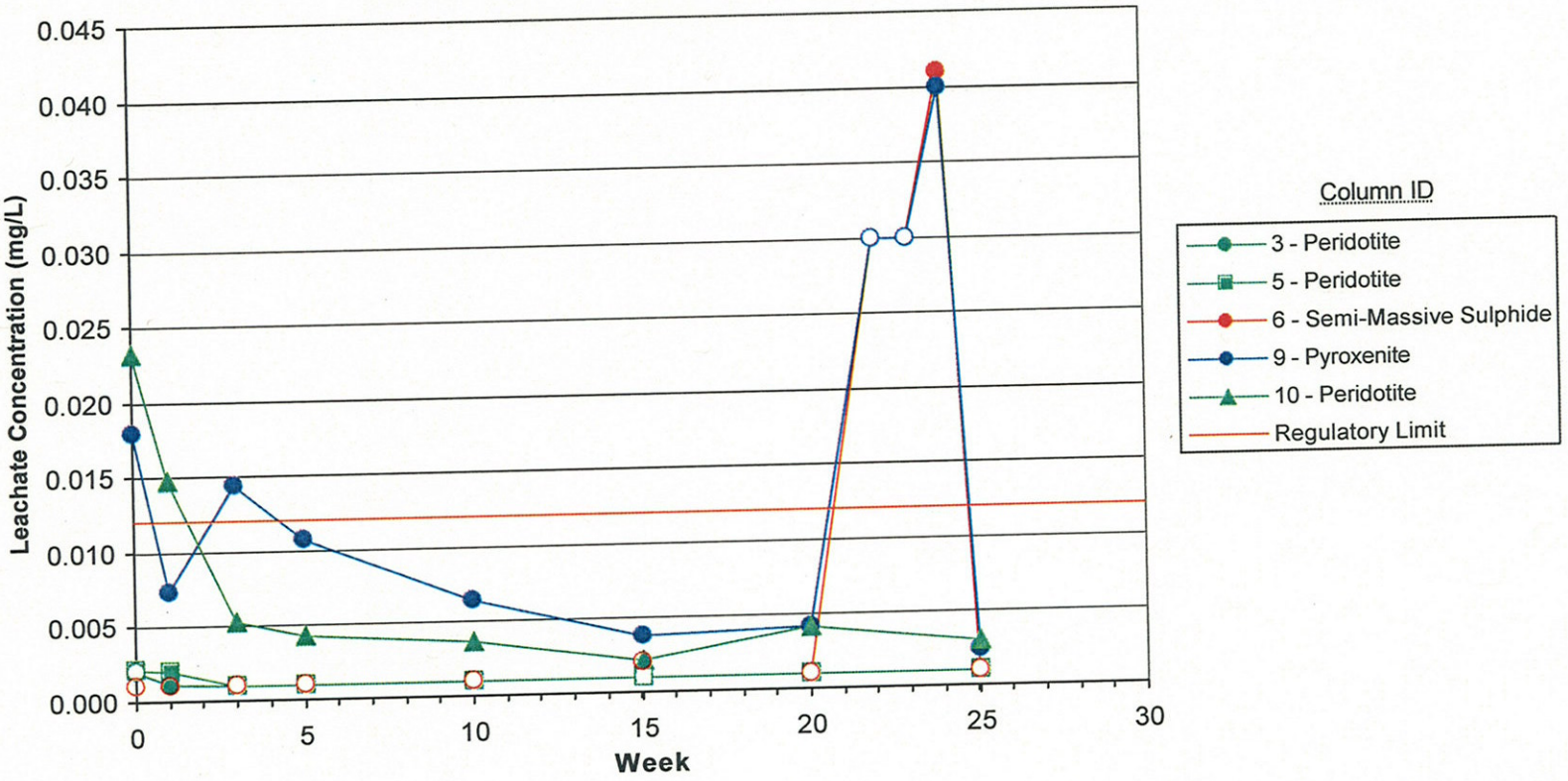
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - TDS**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. B.2-72	



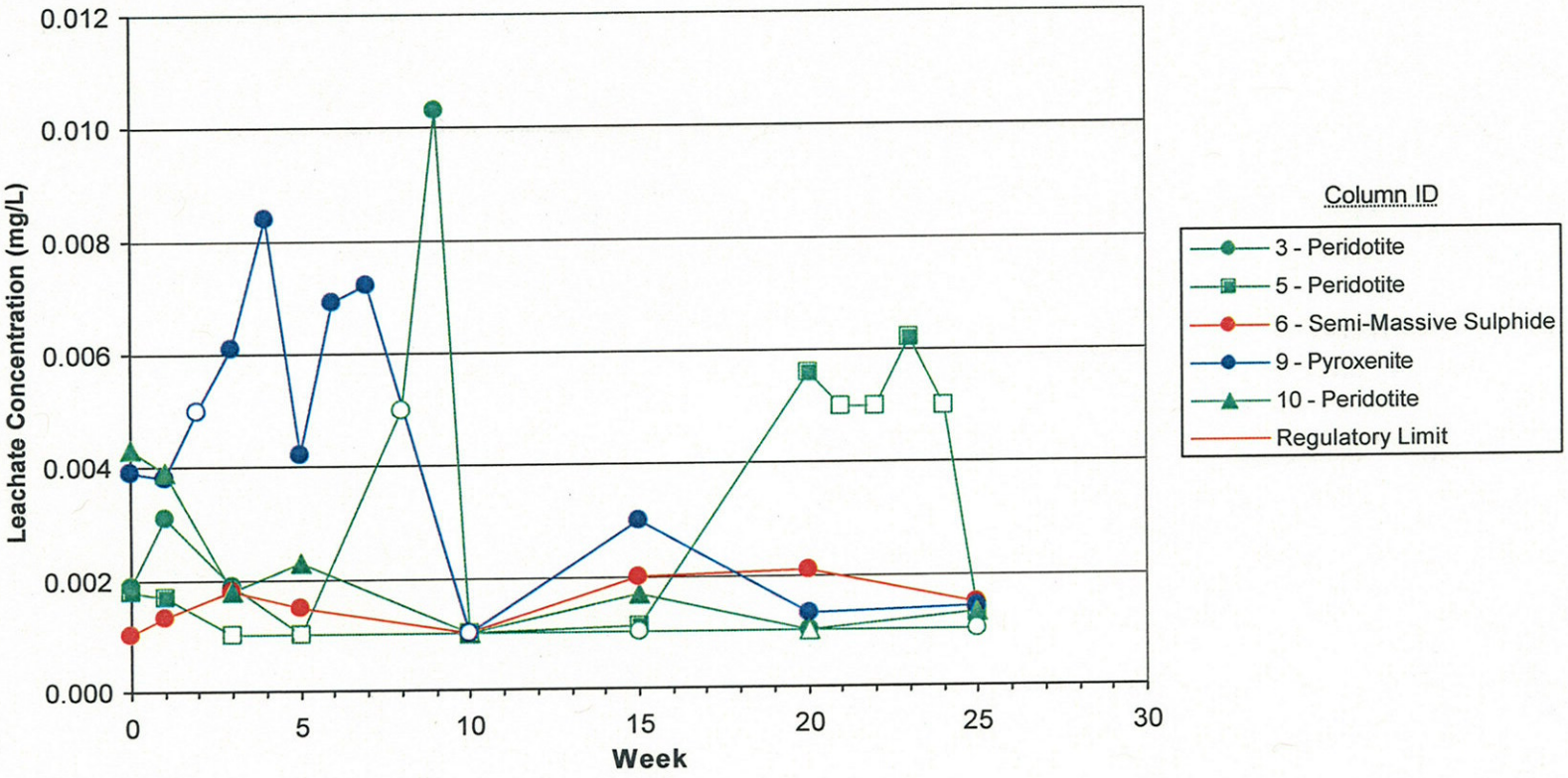
Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Uranium**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. **B.2-73**	



Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Vanadium**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. **B.2-74**	



Notes:
Non-detect concentrations plotted at the detection limit (shown as open symbols).
Week 0 leachate samples collected on September 27, 2004.

Eagle Mine **Phase II Kinetic Testing**	TITLE	**Intrusive Suite Results - Zinc**		
	DRAWN TB	DATE April 2005	JOB NO. 043-1055	
	CHECKED VR	SCALE na	DWG. NO.	
	REVIEWED ML	FILE NO. Phase II Kinetic Intrusive Week26.xls	FIGURE NO. **B.2-75**	

APPENDIX C
QUALITY CONTROL REPORT

TABLES

TABLE C-1
SUMMARY OF PHASE I KINETIC TESTING PROGRAM
EAGLE PROJECT ARD STUDY

Week	Samples Collected	ALS File No.	Date of ALS Report	CEMI Release No.	Comprehensive Analyses?	ALS Data Qualifications
0	February 20, 2004	T9845	March 8, 2004	1424	yes	Elevated detection limits for Se due to matrix interferences (matrix interference due to elevated Ni, Cl, or B).
1	February 24, 2004	U1045 rev.	March 22, 2004	1432	yes	TDS value revised. Matrix interference due to elevated Ni or B.
2	March 2, 2004	U1206	March 11, 2004	1443		Matrix interference (Ni).
3	March 9, 2004	U1467	March 11, 2004	1455	yes	Matrix interference (Ni or B). Not enough material for As analysis by HVAAS.
4	March 16, 2004	U1605	March 17, 2004	1464		Matrix interference (Ni).
5	March 23, 2004	U1828 rev.	May 5, 2004	1499	yes	Lab replicate not performed due to limited sample volume. Matrix interferences, particularly for As by HVAAS.
6	March 30, 2004	U2129 rev.	May 7, 2004	1508		Report revised ot include replicate metals analysis. Matrix interference (Ni).
7	April 6, 2004	U2297	April 13, 2004	1516		Matrix interference.
8	April 13, 2004	U2466	April 20, 2004	1524		Matrix interference (Ni).
9	April 20, 2004	U2748	April 27, 2004	1530		Matrix interference (Ni).
10	April 27, 2004	U2944	May 13, 2004	1536	yes	Lab replicate not performed due to limited sample volume. Matrix interference.
11	May 4, 2004	U3291	May 14, 2004	1540		Matrix interference (Ni).
12	May 11, 2004	U3518	May 19, 2004	1546		Matrix interference (Ni or unknown interference).
13	May 18, 2004	U3746	May 28, 2004	1553		Matrix interference.
14	May 25, 2004	U3839	June 3, 2004	1701-74V-9726		
15	June 1, 2004	U4102	June 5, 2004	1572	yes	
16	June 8, 2004	U4290	June 15, 2004	1579		

TABLE C-1
SUMMARY OF PHASE I KINETIC TESTING PROGRAM
EAGLE PROJECT ARD STUDY

Week	Samples Collected	ALS File No.	Date of ALS Report	CEMI Release No.	Comprehensive Analyses?	ALS Data Qualifications
17	June 15, 2004	U4542	June 21, 2004	1591		Matrix interference.
18	June 22, 2004	U4874	June 28, 2004	1604		Matrix interference (Ni).
19	June 29, 2004	U5187	July 9, 2004	1623		Matrix interference (Ni).
20	July 6, 2004	U5382	July 16, 2004	1627	yes	Matrix interference (Ni).
21	July 13, 2004	U5796	July 22, 2004	1637		
22	July 20, 2004	U6050	July 29, 2004	1649		
23	July 27, 2004	U6328	August 5, 2004	1659		
24	August 3, 2004	U6619	August 11, 2004	1671		
25	August 10, 2004	U6880	August 20, 2004	1682	yes	Nitrate/Nitrite matrix interference.
26	August 17, 2004	U7215	August 26, 2004	1699		
27	August 24, 2004	U7500	September 3, 2004	1710		Matrix interference (Ni).
28	August 31, 2004	U7740	September 10, 2004	1716		Matrix interference (Ni).
29	September 7, 2004	U7897	September 13, 2004	1726		
30	September 14, 2004	U8269	September 24, 2004	1744	yes	Matrix interference (S).
40	November 23, 2004	V2230	December 7, 2004	1910	yes	Nitrate/Nitrite matrix interference. Dissolved metal matrix intereference (Ni).
50	February 1, 2005	V4451	February 15, 2005	2040	yes	Matrix interference (Ni).

TABLE C-2
LABORATORY REPLICATE RESULTS
PHASE I KINETIC TESTING

Week	Column No.	Parameter	Conc. 1 (mg/L)	Replicate (mg/L)	Relative Percent Differnce
Week No. 1					
	Column No.	I-03			
		Aluminum	0.0066	0.0066	0.0
		Antimony	0.00145	0.00148	-2.0
		Arsenic	0.00135	0.00148	-9.2
		Barium	0.0537	0.056	-4.2
		Boron	0.025	0.024	4.1
		Calcium	14.1	13.9	1.4
		Chloride	198	198	0.0
		Cobalt	0.00044	0.00042	4.7
		Copper	0.00577	0.00584	-1.2
		Fluoride	0.022	0.028	-24.0
		Lead	0.0002	0.0002	0.0
		Magnesium	58.7	57.6	1.9
		Manganese	0.00848	0.00848	0.0
		Molybdenum	0.00157	0.00161	-2.5
		Nickel	0.0169	0.0165	2.4
		Potassium	34.7	34.3	1.2
		Silicon	4.7	4.64	1.3
		Sodium	29.6	28.7	3.1
		Strontium	0.0921	0.0943	-2.4
		Tin	0.00052	0.0005	3.9
		Zinc	0.0025	0.0026	-3.9
Week No. 3					
	Column No.	I-03			
		Aluminum	0.0031	0.0018	53.1
		Antimony	0.001	0.00099	1.0
		Arsenic	0.00323	0.00327	-1.2
		Barium	0.036	0.0365	-1.4
		Boron	0.012	0.012	0.0
		Calcium	9.87	9.84	0.3
		Chloride	54.9	54.9	0.0
		Cobalt	0.00014	0.00013	7.4

TABLE C-2
LABORATORY REPLICATE RESULTS
PHASE I KINETIC TESTING

Week	Column No.	Parameter	Conc. 1 (mg/L)	Replicate (mg/L)	Relative Percent Differnce
		Copper	0.00104	0.00105	-1.0
		Lead	0.000156	0.000124	22.9
		Magnesium	19.2	19.3	-0.5
		Manganese	0.00336	0.00338	-0.6
		Molybdenum	0.00106	0.00107	-0.9
		Nickel	0.00401	0.00332	18.8
		Potassium	18.7	19.2	-2.6
		Silicon	4.07	4.05	0.5
		Sodium	10.7	10.5	1.9
		Strontium	0.0518	0.0521	-0.6
		Thallium		0.0001	
		Tin	0.00039	0.00039	0.0
Week No.	25				
	Column No.	I-01			
		Aluminum	0.0309	0.032	-3.5
		Antimony	0.00113	0.00116	-2.6
		Arsenic	0.00613	0.00609	0.7
		Barium	0.0019	0.00208	-9.0
		Boron	0.046	0.047	-2.2
		Calcium	9.88	9.79	0.9
		Cobalt	0.00214	0.00212	0.9
		Copper	0.0004	0.00044	-9.5
		Lead	0.000108	0.000163	-40.6
		Magnesium	6.67	6.64	0.5
		Manganese	0.0642	0.0635	1.1
		Molybdenum	0.00294	0.003	-2.0
		Nickel	0.00344	0.00343	0.3
		Silicon	1.85	1.87	-1.1
		Sodium	2.1	2.1	0.0
		Strontium	0.118	0.119	-0.8
		Tin	0.0002	0.00021	-4.9
		Uranium	0.00007	0.000071	-1.4
		Zinc	0.0033	0.0038	-14.1

TABLE C-3
FIELD DUPLICATE SAMPLE RESULTS
PHASE I KINETIC TESTING

Week	Parameter	Conc. 1 (mg/L)	Det. Lim. (mg/L)	Conc. 2 (mg/L)	Det. Lim. (mg/L)	RPD (%)
Week No. 2						
Column No. I-01						
	Aluminum	0.22	0.2	0.21	0.2	4.7
	Boron	0.18	0.1	0.16	0.1	11.8
	Calcium	1.5	0.05	1.45	0.05	3.4
	Magnesium	0.89	0.1	0.86	0.1	3.4
	Potassium	7.7	2	8.1	2	5.1
	Silicon	2.31	0.05	2.28	0.05	1.3
	Sodium	15.7	2	15.3	2	2.6
	Strontium	0.0371	0.005	0.0365	0.005	1.6
Week No. 3						
Column No. I-02						
	Aluminum	0.12	0.1		0.1	18.2
	Antimony-HVAA	0.00252	0.0002	0.00254	0.0002	0.8
	Arsenic-HVAA	0.012	0.0002	0.0123	0.0002	2.5
	Barium	0.0214	0.005	0.0196	0.005	8.8
	Cadmium	0.0612	0.005	0.0533	0.005	13.8
	Calcium	4.08	0.1	4.11	0.1	0.7
	Cobalt	8.21	0.01	7.57	0.01	8.1
	Copper	0.818	0.01	0.754	0.01	8.1
	Iron	290	0.06	293	0.06	1.0
	Lead	0.0525	0.005	0.0462	0.005	12.8
	Magnesium	9.42	0.2	9.57	0.2	1.6
	Manganese	9.2	0.005	8.47	0.005	8.3
	Molybdenum	0.006	0.005		0.005	18.2
	Nickel	405	0.05	377	0.05	7.2
	Selenium-HVAA	0.0497	0.0005	0.0503	0.0005	1.2
	Silicon	1.95	0.1	1.99	0.1	2.0
	Strontium	0.029	0.01	0.026	0.01	10.9
	Zinc	0.89	0.1	0.84	0.1	5.8
Week No. 6						
Column No. I-03						
	Barium	0.033	0.01	0.039	0.01	16.7
	Calcium	10.9	0.05	10.8	0.05	0.9
	Magnesium	14.7	0.1	14.6	0.1	0.7
	Potassium	15.4	2	14.1	2	8.8
	Silicon	4.04	0.05	4.01	0.05	0.7
	Sodium	7.4	2	7.3	2	1.4

Only relative percent differences (RPD) >0 are listed.

TABLE C-3
FIELD DUPLICATE SAMPLE RESULTS
PHASE I KINETIC TESTING

Week	Parameter	Conc. 1 (mg/L)	Det. Lim. (mg/L)	Conc. 2 (mg/L)	Det. Lim. (mg/L)	RPD (%)
	Strontium	0.0511	0.005	0.05	0.005	2.2
	Zinc	0.0114	0.005	0.0104	0.005	9.2
Week No. 8						
Column No. I-04						
	Barium	0.025	0.01	0.024	0.01	4.1
	Boron	1.34	0.1	1.33	0.1	0.7
	Calcium	23.3	0.05	23.6	0.05	1.3
	Copper	0.014	0.01	0.012	0.01	15.4
	Magnesium	31.5	0.1	31.4	0.1	0.3
	Manganese	0.0293	0.005	0.0251	0.005	15.4
	Nickel	0.086	0.05	0.112	0.05	26.3
	Potassium	21.7	2	22.4	2	3.2
	Silicon	2.92	0.05	2.9	0.05	0.7
	Sodium	9.5	2	9.3	2	2.1
	Strontium	0.0876	0.005	0.0866	0.005	1.1
	Zinc	0.0059	0.005		0.005	16.5
Week No. 10						
Column No. I-01						
	Chloride		0.5	0.75	0.5	40.0
	Fluoride	0.073	0.02	0.056	0.02	26.4
Column No. I-02						
	Nitrite/Nitrate	0.584	0.05	0.0482	0.005	169.5
Column No. I-05						
	Aluminum	0.152	0.001	0.153	0.001	0.7
	Antimony	0.00207	0.0001	0.00208	0.0001	0.5
	Arsenic	0.0109	0.0001	0.0111	0.0001	1.8
	Barium	0.00142	0.00005	0.00144	0.00005	1.4
	Boron	0.081	0.01	0.084	0.01	3.6
	Calcium	9.72	0.05	9.44	0.05	2.9
	Copper	0.00306	0.0001	0.00322	0.0001	5.1
	Lithium	0.0068	0.005	0.0069	0.005	1.5
	Magnesium	2.4	0.1	2.38	0.1	0.8
	Manganese	0.00485	0.00005	0.00487	0.00005	0.4
	Molybdenum	0.00366	0.00005	0.00359	0.00005	1.9
	Nickel	0.0014	0.0005		0.0005	94.7
	Potassium	2.9	2	2.5	2	14.8
	Selenium-HVAA		0.0005	0.00054	0.0005	7.7

Only relative percent differences (RPD) >0 are listed.

TABLE C-3
FIELD DUPLICATE SAMPLE RESULTS
PHASE I KINETIC TESTING

Week	Parameter	Conc. 1 (mg/L)	Det. Lim. (mg/L)	Conc. 2 (mg/L)	Det. Lim. (mg/L)	RPD (%)
	Silicon	2.51	0.05	2.44	0.05	2.8
	Silver	0.000021	0.00001	0.000013	0.00001	47.1
	Sodium	4.9	2	4.4	2	10.8
	Strontium	0.0685	0.0001	0.0689	0.0001	0.6
	Tin	0.00027	0.0001	0.00016	0.0001	51.2
	Uranium	0.000189	0.00001	0.000195	0.00001	3.1
	Zinc	0.0011	0.001		0.001	9.5
Week No. 12						
Column No. I-02						
	Arsenic		0.2		0.3	40.0
	Calcium	1.4	0.05	1.47	0.05	4.9
	Cobalt	1.56	0.01	1.62	0.01	3.8
	Iron	141	0.03	148	0.03	4.8
	Lead		0.05		0.08	46.2
	Magnesium	5.42	0.1	5.55	0.1	2.4
	Manganese	4.58	0.005	4.78	0.005	4.3
	Nickel	121	0.05	128	0.05	5.6
	Silicon	2.16	0.05	2.23	0.05	3.2
	Strontium	0.0131	0.005	0.0182	0.005	32.6
	Tin		0.04		0.03	28.6
Week No. 14						
Column No. I-05						
	Magnesium	2.05	0.1	2.02	0.1	1.5
	Manganese	0.0064	0.005	0.0065	0.005	1.6
	Potassium	3	2	2.2	2	30.8
	Silicon	2.61	0.05	2.62	0.05	0.4
	Sodium	2.9	2	3.2	2	9.8
	Strontium	0.0748	0.005	0.076	0.005	1.6
Week No. 16						
Column No. I-01						
	Calcium	6.92	0.05	6.89	0.05	0.4
	Magnesium	5.22	0.1	5.21	0.1	0.2
	Manganese	0.032	0.005	0.0319	0.005	0.3
	Silicon	1.96	0.05	1.94	0.05	1.0
	Strontium	0.11	0.005	0.109	0.005	0.9
Week No. 18						

Only relative percent differences (RPD) >0 are listed.

TABLE C-3
FIELD DUPLICATE SAMPLE RESULTS
PHASE I KINETIC TESTING

Week	Parameter	Conc. 1 (mg/L)	Det. Lim. (mg/L)	Conc. 2 (mg/L)	Det. Lim. (mg/L)	RPD (%)
Column No. I-03						
	Barium	0.049	0.01	0.043	0.01	13.0
	Calcium	12.1	0.05	11.6	0.05	4.2
	Lithium	0.014	0.01		0.01	33.3
	Magnesium	8.73	0.1	8.44	0.1	3.4
	Potassium	8.6	2	9	2	4.5
	Silicon	4.17	0.05	4.05	0.05	2.9
	Strontium	0.0425	0.005	0.0408	0.005	4.1
Week No. 20						
Column No. I-03						
	Ammonia	0.035	0.02	0.029	0.02	18.8
	Nitrite/Nitrate	0.012	0.01	0.016	0.01	28.6
Column No. I-04						
	Barium	0.0458	0.00005	0.0459	0.00005	0.2
	Boron	0.847	0.01	0.852	0.01	0.6
	Cadmium	0.00018	0.00005	0.000174	0.00005	3.4
	Calcium	16.4	0.05	16.3	0.05	0.6
	Cobalt	0.0142	0.0001	0.0145	0.0001	2.1
	Copper	0.0318	0.0001	0.0312	0.0001	1.9
	Magnesium	59	0.1	59.2	0.1	0.3
	Manganese	0.179	0.00005	0.183	0.00005	2.2
	Molybdenum	0.000052	0.00005	0.00007	0.00005	29.5
	Nickel	1.21	0.0005	1.24	0.0005	2.4
	Potassium	16.5	2	18.1	2	9.2
	Selenium	0.0074	0.001	0.0073	0.001	1.4
	Silicon	3.11	0.05	3.13	0.05	0.6
	Silver	0.00024	0.00001	0.000237	0.00001	1.3
	Sodium	6.3	2	5.9	2	6.6
	Strontium	0.0738	0.0001	0.0743	0.0001	0.7
	Thallium	0.00015	0.0001	0.00016	0.0001	6.5
	Tin	0.00016	0.0001	0.00022	0.0001	31.6
Column No. I-05						
	Fluoride	0.051	0.02	0.058	0.02	12.8
Week No. 22						
Column No. I-04						
	Barium	0.056	0.01	0.051	0.01	9.3
	Cobalt	0.022	0.01	0.019	0.01	14.6

Only relative percent differences (RPD) >0 are listed.

TABLE C-3
FIELD DUPLICATE SAMPLE RESULTS
PHASE I KINETIC TESTING

Week	Parameter	Conc. 1 (mg/L)	Det. Lim. (mg/L)	Conc. 2 (mg/L)	Det. Lim. (mg/L)	RPD (%)
	Lithium	0.014	0.01	0.013	0.01	7.4
	Magnesium	67.6	0.1	67.2	0.1	0.6
	Nickel	2.59	0.05	2.6	0.05	0.4
	Potassium	17.9	2	18.6	2	3.8
	Silicon	3.71	0.05	3.65	0.05	1.6
	Sodium	6	2	5.9	2	1.7
	Strontium	0.0919	0.005	0.089	0.005	3.2
	Zinc	0.0191	0.005	0.0194	0.005	1.6
Week No. 25						
Column No. I-01						
	Aluminum	0.0309	0.001	0.0277	0.001	10.9
	Antimony	0.00113	0.0001	0.0011	0.0001	2.7
	Arsenic	0.00613	0.0001	0.00602	0.0001	1.8
	Barium	0.0019	0.00005	0.00348	0.00005	58.7
	Calcium	9.88	0.05	10.2	0.05	3.2
	Cobalt	0.00214	0.0001	0.00213	0.0001	0.5
	Copper	0.0004	0.0001	0.00047	0.0001	16.1
	Lead	0.000108	0.00005		0.00005	73.4
	Magnesium	6.67	0.1	6.86	0.1	2.8
	Manganese	0.0642	0.00005	0.065	0.00005	1.2
	Molybdenum	0.00294	0.00005	0.00293	0.00005	0.3
	Nickel	0.00344	0.0005	0.00341	0.0005	0.9
	Silicon	1.85	0.05	1.92	0.05	3.7
	Strontium	0.118	0.0001	0.121	0.0001	2.5
	Tin	0.0002	0.0001		0.0001	66.7
	Uranium	0.00007	0.00001	0.000061	0.00001	13.7
	Zinc	0.0033	0.001	0.0063	0.001	62.5
Column No. I-03						
	Chloride	17.1	0.5	16.5	0.5	3.6
	Fluoride		0.02	0.028	0.02	33.3
Column No. I-05						
	Nitrite/Nitrate	0.015	0.01	0.011	0.01	30.8
Week No. 26						
Column No. I-05						
	Calcium	11	0.05	11.1	0.05	0.9
	Magnesium	2.35	0.1	2.4	0.1	2.1
	Manganese	0.012	0.005	0.013	0.005	8.0

Only relative percent differences (RPD) >0 are listed.

TABLE C-3
FIELD DUPLICATE SAMPLE RESULTS
PHASE I KINETIC TESTING

Week	Parameter	Conc. 1 (mg/L)	Det. Lim. (mg/L)	Conc. 2 (mg/L)	Det. Lim. (mg/L)	RPD (%)
	Silicon	2.76	0.05	2.78	0.05	0.7
	Strontium	0.074	0.005	0.075	0.005	1.3
Week No. 28						
Column No. I-03						
	Barium	0.036	0.01	0.033	0.01	8.7
	Calcium	9.48	0.05	9.45	0.05	0.3
	Magnesium	6.3	0.1	6.27	0.1	0.5
	Silicon	3.13	0.05	3.14	0.05	0.3
	Strontium	0.0302	0.005	0.0303	0.005	0.3
Week No. 30						
Column No. I-01						
	Ammonia		0.02	0.022	0.02	9.5
	Nitrite/Nitrate	0.018	0.01	0.013	0.01	32.3
Column No. I-03						
	Aluminum	0.0031	0.001	0.0025	0.001	21.4
	Antimony	0.00033	0.0001	0.00032	0.0001	3.1
	Arsenic	0.00039	0.0001	0.00038	0.0001	2.6
	Barium	0.0421	0.00005	0.043	0.00005	2.1
	Calcium	12.7	0.05	12.3	0.05	3.2
	Copper	0.00034	0.0001	0.00035	0.0001	2.9
	Magnesium	8.32	0.1	7.97	0.1	4.3
	Manganese	0.00265	0.00005	0.00267	0.00005	0.8
	Molybdenum	0.000232	0.00005	0.000204	0.00005	12.8
	Nickel	0.0018	0.0005	0.00166	0.0005	8.1
	Silicon	3.54	0.05	3.42	0.05	3.4
	Sodium	3.8	2	3.5	2	8.2
	Strontium	0.0394	0.0001	0.0392	0.0001	0.5
Column No. I-04						
	Chloride	2.93	0.5	2.94	0.5	0.3
Week No. 40						
Column No. I-01						
	Aluminum	0.0089	0.001	0.0086	0.001	3.4
	Arsenic	0.00135	0.0001	0.00133	0.0001	1.5
	Barium	0.000872	0.00005	0.000877	0.00005	0.6
	Boron	0.034	0.01	0.033	0.01	3.0

Only relative percent differences (RPD) >0 are listed.

TABLE C-3
FIELD DUPLICATE SAMPLE RESULTS
PHASE I KINETIC TESTING

Week	Parameter	Conc. 1 (mg/L)	Det. Lim. (mg/L)	Conc. 2 (mg/L)	Det. Lim. (mg/L)	RPD (%)
	Cadmium	0.000154	0.00005	0.000084	0.00005	58.8
	Calcium	9.03	0.05	9.33	0.05	3.3
	Cobalt	0.00613	0.0001	0.00626	0.0001	2.1
	Lithium	0.0053	0.005	0.0059	0.005	10.7
	Magnesium	6.82	0.1	7.02	0.1	2.9
	Manganese	0.183	0.00005	0.189	0.00005	3.2
	Molybdenum	0.000653	0.00005	0.000664	0.00005	1.7
	Nickel	0.0111	0.0005	0.012	0.0005	7.8
	Silicon	1.18	0.05	1.24	0.05	5.0
	Strontium	0.0982	0.0001	0.0984	0.0001	0.2
	Uranium	0.000024	0.00001	0.00002	0.00001	18.2
	Zinc	0.012	0.001	0.008	0.001	40.0
Column No. I-03						
	Chloride	11.3	0.5	11.4	0.5	0.9
Week No. 50						
Column No. I-01						
	Fluoride	0.048	0.02	0.044	0.02	8.7
Column No. I-05						
	Aluminum	0.0159	0.001	0.0152	0.001	4.5
	Antimony	0.00045	0.0001	0.00043	0.0001	4.5
	Arsenic	0.00104	0.0001	0.00105	0.0001	1.0
	Barium	0.000871	0.00005	0.000956	0.00005	9.3
	Boron	0.025	0.01	0.023	0.01	8.3
	Calcium	7.77	0.05	7.68	0.05	1.2
	Cobalt	0.00015	0.0001	0.00013	0.0001	14.3
	Copper	0.00082	0.0001	0.00498	0.0001	143.4
	Lead		0.00005	0.000068	0.00005	30.5
	Magnesium	2.36	0.1	2.29	0.1	3.0
	Manganese	0.0455	0.00005	0.0454	0.00005	0.2
	Molybdenum	0.000376	0.00005	0.000385	0.00005	3.4
	Nickel	0.00114	0.0005		0.0005	78.0
	Strontium	0.0529	0.0001	0.0518	0.0001	2.1
	Zinc	0.0025	0.001	0.0024	0.001	4.1

Only relative percent differences (RPD) >0 are listed.

TABLE C-4
QUALITY CONTROL SUMMARY
PHASE I KINETIC TESTING

Column ID	Week	pH	SiO2	SO4	TDS Measured	TDS Calculated	TDS RPD	EC Measured	TDS/EC	Sum of Cations	Sum of Anions	Ion% Difference
			mg/L	*mg/L*	*mg/L*	*mg/L*	*%*	*uS/cm*	*ratio*	*meq/L*	*meq/L*	*%*
Column 1-01												
	0	9.02	6.7	29	318	167	62	102	3.12	2.111	2.085	-0.6
	1	7.88	5.1	14	336	139	83	155	2.17	1.658	1.590	-2.1
	3	7.56	4.9	15	50	75	-40	89	0.56	0.939	0.839	-5.6
	5	7.2	4.6	25	66	76	-14	96	0.69	0.953	0.944	-0.5
	10	7.51	4.6	21	34	65	-63	87	0.39	0.865	0.812	-3.2
	15	7.54	4.5	28	43	72	-50	89	0.48	0.897	0.962	3.5
	20	7.48	4.3	35	63	74	-17	115	0.55	0.917	1.051	6.8
	25	7.32	4.0	46	125	88	35	140	0.89	1.144	1.268	5.1
	30	7.58	3.7	66	139	118	17	179	0.78	1.569	1.727	4.8
	40	7.15	2.5	47	66	77	-15	120	0.55	1.024	1.160	6.3
	50	6.89	2.6	61	112	90	22	131	0.85	1.170	1.392	8.7

TABLE C-4
QUALITY CONTROL SUMMARY
PHASE I KINETIC TESTING

Column ID	Week	pH	SiO2	SO4	TDS Measured	TDS Calculated	TDS RPD	EC Measured	TDS/EC	Sum of Cations	Sum of Anions	Ion% Difference
			mg/L	*mg/L*	*mg/L*	*mg/L*	*%*	*uS/cm*	*ratio*	*meq/L*	*meq/L*	*%*
Column I-02												
	0	5.81	3.8	542	1240	1011	20	730	1.70	12.903	14.881	7.1
	1	4.14	5.5	837	1600	1404	13	1074	1.49	20.041	18.268	-4.6
	3	3.61	4.2	1220	2180	1959	11	1484	1.47	25.852	25.650	-0.4
	5	3.75	4.3	991	1900	1603	17	1360	1.40	21.048	20.987	-0.1
	10	4.17	4.8	629	1200	969	21	1008	1.19	11.562	13.443	7.5
	15	4.31	4.4	374	768	612	23	720	1.07	7.997	8.139	0.9
	20	4.3	4.1	383	759	603	23	751	1.01	7.749	8.027	1.8

TABLE C-4
QUALITY CONTROL SUMMARY
PHASE I KINETIC TESTING

Column ID	Week	pH	SiO2	SO4	TDS Measured	TDS Calculated	TDS RPD	EC Measured	TDS/EC	Sum of Cations	Sum of Anions	Ion% Difference
			mg/L	*mg/L*	*mg/L*	*mg/L*	*%*	*uS/cm*	*ratio*	*meq/L*	*meq/L*	*%*
Column I-03												
	0	8.3	7.8		754	359	71	545	1.38	6.026	6.321	2.4
	1	8.23	10.1	6	209	501	-82	629	0.33	7.716	8.158	2.8
	3	8.03	8.7	7	186	211	-13	284	0.65	3.020	3.033	0.2
	5	7.79	7.9	4	139	173	-22	245	0.57	2.436	2.388	-1.0
	10	7.97	8.3	4	91	144	-45	190	0.48	1.882	1.918	0.9
	15	8.04	8.0	5	84	131	-44	166	0.51	1.619	1.745	3.8
	20	7.94	8.0		100	118	-17	174	0.57	1.538	1.539	0.0
	25	7.8	7.2	3	100	100	0	145	0.69	1.239	1.334	3.7
	30	7.92	7.6	6	136	125	9	188	0.72	1.688	1.747	1.7
	40	7.67	5.1	4	55	69	-22	100	0.55	0.834	0.941	6.1
	50	7.82	5.5		97	81	18	107	0.91	0.960	1.045	4.2

TABLE C-4
QUALITY CONTROL SUMMARY
PHASE I KINETIC TESTING

Column ID	Week	pH	SiO2	SO4	TDS Measured	TDS Calculated	TDS RPD	EC Measured	TDS/EC	Sum of Cations	Sum of Anions	Ion% Difference
			mg/L	*mg/L*	*mg/L*	*mg/L*	*%*	*uS/cm*	*ratio*	*meq/L*	*meq/L*	*%*
Column I-04												
	0	9.05	7.4	40	262	302	-14	368	0.71	3.719	4.789	12.6
	1	8.28	8.2	112	287	566	-65	789	0.36	10.823	6.469	-25.2
	3	7.67	5.5	106	512	329	43	573	0.89	7.019	3.565	-32.6
	5	7.64	5.0	119	448	429	4	605	0.74	6.028	7.065	7.9
	10	7.5	5.1	122	362	334	8	497	0.73	4.798	5.480	6.6
	15	7.38	5.5	187	398	351	12	500	0.80	4.991	5.688	6.5
	20	6.98	6.7	288	540	410	27	675	0.80	6.424	6.203	-1.7
	25	6.8	7.2	332	677	498	31	717	0.94	6.825	8.229	9.3
	30	6.73	7.1	332	584	469	22	752	0.78	7.721	7.077	-4.4
	40	5.15	5.9	341	684	512	29	831	0.82	9.121	7.182	-11.9
	50	4.67	10.1	460	859	672	24	969	0.89	10.992	9.598	-6.8

TABLE C-4
QUALITY CONTROL SUMMARY
PHASE I KINETIC TESTING

Column ID	Week	pH	SiO2	SO4	TDS Measured	TDS Calculated	TDS RPD	EC Measured	TDS/EC	Sum of Cations	Sum of Anions	Ion% Difference
			mg/L	*mg/L*	*mg/L*	*mg/L*	*%*	*uS/cm*	*ratio*	*meq/L*	*meq/L*	*%*
Column I-05												
	0	9.37	6.5	11	497	174	96	215	2.31	2.137	2.105	-0.8
	1	8.14	5.4	6	120	189	-45	200	0.60	2.224	2.150	-1.7
	3	7.78	5.4	10	78	95	-20	114	0.68	1.176	1.055	-5.4
	5	7.54	5.1	15	66	89	-30	102	0.65	1.071	1.050	-1.0
	10	7.59	5.4	20	52	82	-45	100	0.52	0.990	1.027	1.8
	15	7.65	5.2	20	40	72	-57	85	0.47	0.839	0.915	4.4
	20	7.5	5.8	31	74	77	-4	104	0.71	0.851	1.019	8.9
	25	7.5	5.5	30	108	71	42	105	1.03	0.756	0.986	13.2
	30	7.59	5.0	46	95	91	4	136	0.70	1.041	1.300	11.1
	40	7.16	4.1	23	53	52	2	73	0.73	0.628	0.701	5.5
	50	7.25	3.6	19	67	44	41	66	1.02	0.587	0.578	-0.8

Notes:

1. Refer to Calculated TDS Summary Report for basis of Calculated TDS values.
2. TDS Relative Percent Difference (RPD): (Measured TDS - Calc. TDS)/(0.5 *(Measured TDS + Calc. TDS)) * 100
3. Refer to Ion Balance Summary Report for calculation of Anions and Cations (meq/L).
4. Ion % Difference: ([Anions] - [Cations])/([Anions]+[Cations]) * 100
5. Results less than the detection limit are not listed. TDS detection limits range between 30 and 60 mg/L.

TABLE C-5
REPORTING LIMITS COMPARED TO REGULATORY LIMITS
PHASE I KINETIC TESTING

Parameter	Minimum Reporting Limit mg/L	Maximum Reporting Limit mg/L	Lowest Regulatory Limit mg/L
Aluminum	0.001	0.05	0.05
Ammonia	0.005	0.02	0.029
Antimony	0.0001	0.01	0.0017
Antimony-HVAAS	0.0002	0.002	0.0017
Arsenic	0.0001	0.01	0.01
Arsenic-HVAAS	0.0002	0.0002	0.01
Beryllium	0.0005	0.05	0.000072
Boron	0.01	1	1.9
Cadmium	0.00005	0.0025	0.000094
Chloride	0.5	5	230
Chromium	0.0005	0.05	0.036
Cobalt	0.0001	0.0005	0.1
Fluoride	0.02	0.2	2
Iron	0.03	0.03	0.3
Lead	0.00005	0.001	0.0005
Lithium	0.005	0.5	0.096
Mercury	0.00005	0.00005	0.0000013
Molybdenum	0.00005	0.005	0.12
Nickel	0.0005	0.001	0.016
Nitrite/Nitrate	0.005	0.05	10
Selenium	0.001	0.1	0.005
Selenium-HVAAS	0.0005	0.0005	0.005
Silver	0.00001	0.001	0.00006
Sulphate	3	3	250
Thallium	0.0001	0.01	0.0012
Uranium	0.00001	0.001	0.03
Vanadium	0.001	0.1	0.012
Zinc	0.001	0.005	0.036

Reporting limits for ICP-MS analyses unless otherwise noted.

Regulatory limits from the project Sampling and Analysis Program (Geochimica, 2004).

TABLE C-6
SUMMARY OF PHASE II KINETIC TESTING PROGRAM
EAGLE PROJECT ARD STUDY

Week	Samples Collected	ALS File No.	Date of ALS Report	CEMI Release No.	Comprehensive Analyses?	ALS Data Qualifications
Column Blank	September 23, 2004	U8691	October 5, 2004	1765		
0	September 27, 2004	U8892	October 14, 2004	1769	yes	Not enough material for replicate analysis. Matrix interference for Nitrate/nitrite.
1	October 4, 2004	U9078 rev.	November 2, 2004	1783	yes	Not enough material for replicate analysis. Nitrate/nitrite values revised.
2	October 11, 2004	V1248	November 8, 2004	1854		Preserved samples held at CEMI for 3 weeks before submittal to ALS.
3	October 19, 2004	U9760	November 1, 2004	1823	yes	Nitrate/nitrite matrix interference. Elevated TDS D.L due to limited sample volume.
4	October 25, 2004	U9974	November 2, 2004	1838		Not enough material for replicate analysis
5	November 1, 2004	V1333	November 17, 2004	1857	yes	Not enough material for replicate analysis
6	November 8, 2004	V1562	November 15, 2004	1873		
7	November 15, 2004	V1805	November 19, 2004	1890		Not enough material for replicate analysis
8	November 22, 2004	V2015	November 25, 2004	1906		
9	November 29, 2004	V5718	March 21, 2005	2097		Lead reanalysis
9	November 29, 2004	V2292 rev.	December 8, 2004	1924		Detection limits raised due to matrix interference for some metals.
10	December 6, 2004	V2572	December 16, 2004	1939	yes	Nitrate/nitrite matrix interference. Elevated TDS D.L due to limited sample volume. Not enough material for replicate analysis.
11	December 13, 2004	V2849	December 20, 2004	1952		
12	December 20, 2004	V3091	December 30, 2004	1968		

TABLE C-6
SUMMARY OF PHASE II KINETIC TESTING PROGRAM
EAGLE PROJECT ARD STUDY

Week	Samples Collected	ALS File No.	Date of ALS Report	CEMI Release No.	Comprehensive Analyses?	ALS Data Qualifications
13	December 27, 2004	V3330	January 7, 2005	1981		
14	January 3, 2005	V3420	January 12, 2005	1995		
15	January 10, 2005	V3611	January 19, 2005	2005	yes	Not enough material for replicate analysis. Matrix interferences for some metals and TDS (Mg).
16	January 17, 2005	V3817	January 25, 2005	2016		
17	January 24, 2005	V4066	February 4, 2005	2027		
18	January 31, 2005	V4317 rev.	February 23, 2005	2039		Sample results for Column 1 revised.
19	February 7, 2005	V4761	February 21, 2005	2049		
20	February 14, 2005	V4871	February 28, 2005	2060	yes	Not enough material for replicate analysis. TDS D.L elevated due to limited sample volume.
21	February 21, 2005	V5130	March 3, 2005	2068		Dissolved metals matrix interference (carbon).
22	February 28, 2005	V5368	March 9, 2005	2080		
23	March 7, 2005	V5644	March 15, 2005	2093		
24	March 14, 2005	V5927	March 21, 2005	2109		
25	March 21, 2005	V6121	March 31, 2005	2123	yes	
26	March 28, 2005	V6325	April 4, 2005	2136		
27	April 4, 2005	V6587	April 12, 2005	2156		

TABLE C-7
SUMMARY OF LABORATORY REPLICATE RESULTS
PHASE II KINETIC TESTING

Week	Column No.	Parameter	Conc. 1 *mg/L*	Replicate *mg/L*	RPD *%*
Week No. 25	Column No. II-02				
		Calcium	12.8	12.8	0.0
		Magnesium	2.18	2.16	0.9
		Silicon	1.23	1.23	0.0
Week No. 3	Column No. II-10				
		Aluminum	0.132	0.131	0.8
		Antimony	0.00039	0.00038	2.6
		Arsenic	0.00041	0.00041	0.0
		Barium	0.000349	0.000333	4.7
		Boron	0.17	0.17	0.0
		Calcium	0.184	0.178	3.3
		Chromium	0.00312	0.00319	-2.2
		Cobalt	0.00017	0.00017	0.0
		Copper	0.00925	0.0092	0.5
		Iron	0.26	0.261	-0.4
		Lead	0.000454	0.000438	3.6
		Magnesium	0.37	0.36	2.7
		Manganese	0.00224	0.00226	-0.9
		Molybdenum	0.000147	0.000156	-5.9
		Nickel	0.00194	0.00196	-1.0
		Silicon	1.81	1.84	-1.6
		Silver	0.00001	0.000012	-18.2
		Sodium	12.8	12.7	0.8
		Strontium	0.00393	0.00399	-1.5
		Tin	0.00024	0.00023	4.3
		Vanadium	0.0053	0.0053	0.0
		Zinc	0.0018	0.0018	0.0

RPD: relative percent difference.

TABLE C-8
FIELD DUPLICATE SAMPLE RESULTS
PHASE II KINETIC TESTING

Week	Column No.	Parameter	Conc. 1 (mg/L)	Det. Lim. (mg/L)	Conc. 2 (mg/L)	Det. Lim. (mg/L)	RPD (%)
Week No. 4							
	Column No. II-01						
		Calcium	11.2	0.05	11.6	0.05	3.5
		Lithium	0.01	0.01	0.012	0.01	18.2
		Magnesium	3.64	0.1	3.68	0.1	1.1
		Manganese	0.0132	0.005	0.0136	0.005	3.0
		Potassium	4.1	2	3.8	2	7.6
		Silicon	2.63	0.05	2.67	0.05	1.5
		Strontium	0.14	0.005	0.142	0.005	1.4
Week No. 5							
	Column No. II-02						
		Aluminum	0.136	0.001	0.121	0.001	11.7
		Antimony	0.00331	0.0001	0.00327	0.0001	1.2
		Arsenic	0.0027[illegible]	0.0001	0.00267	0.0001	2.2
		Boron	0.231	0.01	0.229	0.01	0.9
		Calcium	9.18	0.05	8.95	0.05	2.5
		Copper	0.00082	0.0001	0.00038	0.0001	73.3
		Lead	0.00007[illegible]	0.00005	0.00011	0.00005	33.0
		Lithium	0.0081	0.005	0.0082	0.005	1.2
		Magnesium	3.74	0.1	3.63	0.1	3.0
		Manganese	0.00415	0.00005	0.00401	0.00005	3.4
		Molybdenum	0.0241	0.00005	0.0238	0.00005	1.3
		Nickel	0.00093	0.0005	0.0008	0.0005	15.0
		Potassium	6.1	2	5.9	2	3.3
		Silicon	1.84	0.05	1.8	0.05	2.2
		Sodium	4	2	3.9	2	2.5
		Uranium	0.000425	0.00001	0.00042	0.00001	2.4
	Column No. II-04						
		Ammonia	0.069	0.02	0.067	0.02	2.9
		Nitrite/Nitrate		0.05	0.074	0.05	38.7
Week No. 6							
	Column No. II-05						
		Boron	0.24	0.1	0.25	0.1	4.1
		Calcium	7.73	0.05	7.8	0.05	0.9
		Magnesium	7.99	0.1	8.21	0.1	2.7
		Potassium	7.4	2	7.6	2	2.7
		Silicon	3.2	0.05	3.25	0.05	1.6
		Sodium	8.7	2	9.2	2	5.6

Only relative percent differences (RPD) >0 are listed.

TABLE C-8
FIELD DUPLICATE SAMPLE RESULTS
PHASE II KINETIC TESTING

Week	Column No.	Parameter	Conc. 1 (mg/L)	Det. Lim. (mg/L)	Conc. 2 (mg/L)	Det. Lim. (mg/L)	RPD (%)
		Strontium	0.131	0.005	0.133	0.005	1.5
Week No. 7							
	Column No. II-06						
		Calcium	10.7	0.05	10.7	0.05	0.0
		Copper	0.022	0.01	0.018	0.01	20.0
		Magnesium	25.5	0.1	25.7	0.1	0.8
		Manganese	0.0079	0.005	0.0067	0.005	16.4
		Potassium	10.9	2	10.5	2	3.7
		Silicon	3.24	0.05	3.22	0.05	0.6
		Sodium	8.9	2	8.8	2	1.1
Week No. 10							
	Column No. II-07						
		Aluminum	0.142	0.001	0.143	0.001	0.7
		Antimony	0.00693	0.0001	0.00691	0.0001	0.3
		Arsenic	0.0332	0.0001	0.0326	0.0001	1.8
		Barium	0.000657	0.00005	0.00068	0.00005	3.1
		Boron	0.057	0.01	0.055	0.01	3.6
		Calcium	11.6	0.05	11.4	0.05	1.7
		Chromium		0.0005	0.00133	0.0005	90.7
		Copper	0.00049	0.0001	0.00082	0.0001	50.4
		Magnesium	1.22	0.1	1.2	0.1	1.7
		Manganese	0.00386	0.00005	0.00388	0.00005	0.5
		Molybdenum	0.00816	0.00005	0.00805	0.00005	1.4
		Silicon	1.42	0.05	1.39	0.05	2.1
		Strontium	0.167	0.0001	0.166	0.0001	0.6
		Uranium	0.000499	0.00001	0.00049	0.00001	2.6
		Vanadium	0.0018	0.001	0.0017	0.001	5.7
	Column No. II-08						
		Fluoride	0.022	0.02	0.024	0.02	8.7
	Column No. II-09						
		Ammonia	0.021	0.02		0.02	4.9
Week No. 12							
	Column No. II-10						
		Calcium	0.133	0.05	0.141	0.05	5.8
		Iron	0.254	0.03	0.228	0.03	10.8

Only relative percent differences (RPD) >0 are listed.

TABLE C-8
FIELD DUPLICATE SAMPLE RESULTS
PHASE II KINETIC TESTING

Week	Column No.	Parameter	Conc. 1 (mg/L)	Det. Lim. (mg/L)	Conc. 2 (mg/L)	Det. Lim. (mg/L)	RPD (%)
		Silicon	1.64	0.05	1.62	0.05	1.2
Week No. 14							
	Column No. II-01						
		Calcium	6.61	0.05	6.64	0.05	0.5
		Magnesium	2.18	0.1	2.36	0.1	7.9
		Manganese	0.0179	0.005	0.018	0.005	0.6
		Silicon	1.63	0.05	1.68	0.05	3.0
		Strontium	0.0637	0.005	0.065	0.005	2.0
Week No. 16							
	Column No. II-02						
		Boron	0.11	0.1	0.1	0.1	9.5
		Calcium	12.55	0.05	12.1	0.05	3.7
		Magnesium	3.515	0.1	3.39	0.1	3.6
		Manganese	0.0084	0.005	0.0077	0.005	8.7
		Potassium	2.55	2	2.5	2	2.0
		Silicon	1.375	0.05	1.31	0.05	4.8
		Strontium	0.135	0.005	0.131	0.005	3.0
Week No. 18							
	Column No. II-03						
		Calcium	4.5	0.05	4.48	0.05	0.4
		Magnesium	4.47	0.1	4.53	0.1	1.3
		Potassium	9.4	2	9.5	2	1.1
		Silicon	2.4	0.05	2.39	0.05	0.4
		Strontium	0.0155	0.005	0.0156	0.005	0.6
Week No. 20							
	Column No. II-04						
		Aluminum	0.166	0.001	0.158	0.001	4.9
		Antimony	0.00044	0.0001	0.00042	0.0001	4.7
		Arsenic	0.002	0.0001	0.00182	0.0001	9.4
		Boron	0.152	0.01	0.154	0.01	1.3
		Cadmium	0.013	0.00005	0.0136	0.00005	4.5
		Calcium	11.85	0.05	11.3	0.05	4.8
		Cobalt	0.268	0.0001	0.263	0.0001	1.9
		Copper	2.835	0.0001	2.8	0.0001	1.2
		Iron	0.398	0.03	0.377	0.03	5.4
		Lead	0.006	0.00005	0.00622	0.00005	3.6

Only relative percent differences (RPD) >0 are listed.

TABLE C-8
FIELD DUPLICATE SAMPLE RESULTS
PHASE II KINETIC TESTING

Week	Column No.	Parameter	Conc. 1 (mg/L)	Det. Lim. (mg/L)	Conc. 2 (mg/L)	Det. Lim. (mg/L)	RPD (%)
		Lithium	0.018	0.005	0.0181	0.005	0.6
		Magnesium	9.42	0.1	8.93	0.1	5.3
		Manganese	0.548	0.00005	0.537	0.00005	2.0
		Nickel	1.465	0.0005	1.44	0.0005	1.7
		Potassium	8.55	2	8.2	2	4.2
		Selenium	0.002	0.001	0.0022	0.001	9.5
		Silicon	5.335	0.05	5.1	0.05	4.5
		Sodium	2.7	2	2.6	2	3.8
		Strontium	0.352	0.0001	0.355	0.0001	0.8
		Uranium	0.00027	0.00001	0.00027	0.00001	1.1
		Zinc	1.035	0.001	1.02	0.001	1.5
	Column No. II-06						
		Ammonia	0.021	0.02	0.022	0.02	4.7
Week No. 22							
	Column No. II-07						
		Calcium	16.7	0.05	17.1	0.05	2.4
		Lithium		0.01	0.012	0.01	18.2
		Magnesium	1.18	0.1	1.2	0.1	1.7
		Manganese	0.006	0.005	0.0057	0.005	5.1
		Silicon	1.875	0.05	1.91	0.05	1.8
		Strontium	0.194	0.005	0.199	0.005	2.5
Week No. 24							
	Column No. II-08						
		Calcium	7.87	0.05	7.84	0.05	0.4
		Copper	0.017	0.01	0.013	0.01	26.7
		Iron	0.058	0.03	0.052	0.03	10.9
		Lithium	0.013	0.01	0.01	0.01	26.1
		Magnesium	6.905	0.1	6.9	0.1	0.1
		Manganese	0.075	0.005	0.0745	0.005	0.7
		Nickel	0.24	0.05	0.237	0.05	1.3
		Potassium	3.65	2	3.6	2	1.4
		Silicon	1.89	0.05	1.9	0.05	0.5
		Strontium	0.247	0.005	0.246	0.005	0.4
		Zinc	0.019	0.005	0.0194	0.005	2.1
Week No. 25							
	Column No. II-09						
		Aluminum	0.0759	0.001	0.0678	0.001	11.3

Only relative percent differences (RPD) >0 are listed.

TABLE C-8
FIELD DUPLICATE SAMPLE RESULTS
PHASE II KINETIC TESTING

Week	Column No.	Parameter	Conc. 1 (mg/L)	Det. Lim. (mg/L)	Conc. 2 (mg/L)	Det. Lim. (mg/L)	RPD (%)
		Antimony	0.0004	0.0001	0.00037	0.0001	7.8
		Arsenic	0.0005	0.0001	0.00048	0.0001	4.1
		Barium	0.0012	0.00005	0.00126	0.00005	4.9
		Boron	0.0465	0.01	0.047	0.01	1.1
		Calcium	7.74	0.05	7.69	0.05	0.6
		Chromium	0.0009	0.0005	0.00079	0.0005	13.0
		Copper	0.0091	0.0001	0.00958	0.0001	5.1
		Iron	0.214	0.03	0.182	0.03	16.2
		Lead	0.000311	0.00005	0.00036	0.00005	15.4
		Magnesium	2.68	0.1	2.64	0.1	1.5
		Manganese	0.00468	0.00005	0.00458	0.00005	2.2
		Molybdenum	0.00009	0.00005	9.2E-05	0.00005	4.3
		Nickel	0.00147	0.0005	0.00144	0.0005	2.1
		Potassium	5.05	2	5	2	1.0
		Silicon	2.595	0.05	2.53	0.05	2.5
		Silver	0.000013	0.00001	1.4E-05	0.00001	7.4
		Sodium	9.05	2	9.1	2	0.6
		Strontium	0.1013	0.0001	0.103	0.0001	1.7
		Zinc	0.0014	0.001	0.0015	0.001	6.9
Week No. 26							
	Column No. II-03						
		Calcium	5.03	0.05	5.1	0.05	1.4
		Magnesium	4.66	0.1	4.73	0.1	1.5
		Potassium	9.4	2	9.6	2	2.1
		Silicon	2.56	0.05	2.61	0.05	1.9
		Sodium	2.65	2	2.7	2	1.9
		Strontium	0.01	0.005	0.0139	0.005	32.6

Only relative percent differences (RPD) >0 are listed.

TABLE C-9

QUALITY CONTROL SUMMARY

PHASE II KINETIC TESTING

Column ID	Week	pH	SiO2	SO4	TDS Measured	TDS Calculated	TDS RPD	EC Measured	TDS/EC	Sum of Cations	Sum of Anions	Ion% Difference
			mg/L	*mg/L*	*mg/L*	*mg/L*	*%*	*uS/cm*	*ratio*	*meq/L*	*meq/L*	*%*
Column II-01												
	0	8.03	8.3	111	192	285	-39	367	0.52	3.523	3.695	2.4
	1	7.87	6.9	57	130	172	-28	215	0.60	2.087	2.192	2.5
	3	7.43	5.0	30	46	83	-57	108	0.43	1.029	1.060	1.5
	5	7.52	4.7	22	86	64	29	86	1.00	0.768	0.835	4.1
	10	7.17	3.4	18		45		62		0.556	0.607	4.3
	15	7.13	3.4	8		29		34		0.355	0.360	0.7
	20	7.27	4.2	13	31	42	-29	50	0.62	0.621	0.492	-11.6
	25	7.29	3.4	6		25		34		0.326	0.296	-4.8

Only positive values are listed (TDS det. lim 30-60 mg/L; sulphate det. lim 3 mg/L).

TABLE C-9

QUALITY CONTROL SUMMARY

PHASE II KINETIC TESTING

Column ID	Week	pH	SiO2	SO4	TDS Measured	TDS Calculated	TDS RPD	EC Measured	TDS/EC	Sum of Cations	Sum of Anions	Ion% Difference
			mg/L	*mg/L*	*mg/L*	*mg/L*	*%*	*uS/cm*	*ratio*	*meq/L*	*meq/L*	*%*
Column II-02												
	0	8.48	5.5	73	200	269	-29	353	0.57	3.324	3.311	-0.2
	1	8.09	5.1	38	125	176	-34	217	0.58	2.041	2.131	2.1
	3	7.76	4.0	17	60	101	-51	126	0.48	1.213	1.194	-0.8
	5	7.85	3.9	17	123	90	31	115	1.07	1.117	1.076	-1.9
	10	8.01	2.9	17		75		98		0.914	0.970	3.0
	15	7.74	2.8	15		70		92		0.919	0.875	-2.4
	20	7.66	3.0	29	88	87	1	118	0.75	1.169	1.134	-1.5
	25	7.77	2.6	15	45	64	-35	91	0.49	0.832	0.822	-0.6

Only positive values are listed (TDS det. lim 30-60 mg/L; sulphate det. lim 3 mg/L).

TABLE C-9

QUALITY CONTROL SUMMARY

PHASE II KINETIC TESTING

Column ID	Week	pH	SiO2	SO4	TDS Measured	TDS Calculated	TDS RPD	EC Measured	TDS/EC	Sum of Cations	Sum of Anions	Ion% Difference
			mg/L	*mg/L*	*mg/L*	*mg/L*	*%*	*uS/cm*	*ratio*	*meq/L*	*meq/L*	*%*
Column II-03												
	0	8.81	8.8	26	183	262	-35	370	0.49	3.440	3.340	-1.5
	1	9.28	8.3	15	122	201	-49	261	0.47	2.447	2.386	-1.3
	3	8.31	10.0		82	159	-64	176	0.47	1.807	1.736	-2.0
	5	8.62	8.2		120	122	-2	134	0.90	1.390	1.340	-1.8
	10	8.3	5.4			91		104		1.028	1.021	-0.3
	15	7.97	5.2		81	84	-3	95	0.85	0.995	0.910	-4.5
	20	7.68	6.1	7	55	89	-48	106	0.52	1.131	0.995	-6.4
	25	7.84	5.3	8		76		98		0.928	0.870	-3.2

Only positive values are listed (TDS det. lim 30-60 mg/L; sulphate det. lim 3 mg/L).

TABLE C-9

QUALITY CONTROL SUMMARY

PHASE II KINETIC TESTING

Column ID	Week	pH	SiO2	SO4	TDS Measured	TDS Calculated	TDS RPD	EC Measured	TDS/EC	Sum of Cations	Sum of Anions	Ion% Difference
			mg/L	*mg/L*	*mg/L*	*mg/L*	*%*	*uS/cm*	*ratio*	*meq/L*	*meq/L*	*%*
Column II-04												
	0	7.67	4.1	415	342	668	-65	968	0.35	8.931	9.383	2.5
	1	7.72	5.3	198	338	352	-4	512	0.66	4.458	4.878	4.5
	3	7.18	6.8	168	220	266	-19	376	0.59	3.393	3.758	5.1
	5	7.05	7.6	95	183	157	16	229	0.80	2.076	2.104	0.7
	10	6.34	7.8	86	54	135	-85	205	0.26	1.816	1.866	1.4
	15	6.08	9.2	86	119	133	-11	192	0.62	1.719	1.859	3.9
	20	5.26	11.4	89	151	143	5	202	0.75	1.946	1.894	-1.4
	25	4.63	7.4	73	88	112	-24	177	0.50	1.379	1.551	5.8

Only positive values are listed (TDS det. lim 30-60 mg/L; sulphate det. lim 3 mg/L).

TABLE C-9

QUALITY CONTROL SUMMARY

PHASE II KINETIC TESTING

Column ID	Week	pH	SiO2	SO4	TDS Measured	TDS Calculated	TDS RPD	EC Measured	TDS/EC	Sum of Cations	Sum of Anions	Ion% Difference
			mg/L	*mg/L*	*mg/L*	*mg/L*	*%*	*uS/cm*	*ratio*	*meq/L*	*meq/L*	*%*
Column II-05												
	0	8.17	14.4	178	198	400	-68	544	0.36	5.078	5.284	2.0
	1	8.2	13.3	53	192	223	-15	296	0.65	2.772	2.607	-3.1
	3	8.06	7.4	27	88	126	-36	171	0.51	1.640	1.477	-5.2
	5	7.95	7.2	23	133	110	19	148	0.90	1.444	1.288	-5.7
	10	7.99	4.7	34		96		126		1.174	1.267	3.8
	15	7.58	3.9	36	79	85	-7	116	0.68	1.119	1.132	0.5
	20	7.53	4.5	49	115	103	11	142	0.81	1.497	1.360	-4.8
	25	7.33	3.4	46	41	85	-70	114	0.36	1.044	1.217	7.7

Only positive values are listed (TDS det. lim 30-60 mg/L; sulphate det. lim 3 mg/L).

TABLE C-9

QUALITY CONTROL SUMMARY

PHASE II KINETIC TESTING

Column ID	Week	pH	SiO2	SO4	TDS Measured	TDS Calculated	TDS RPD	EC Measured	TDS/EC	Sum of Cations	Sum of Anions	Ion% Difference
			mg/L	*mg/L*	*mg/L*	*mg/L*	*%*	*uS/cm*	*ratio*	*meq/L*	*meq/L*	*%*
Column II-06												
	0	7.95	4.8	36	82	120	-38	189	0.43	1.684	1.559	-3.9
	1	8.27	13.2	86	250	278	-11	400	0.63	3.791	3.515	-3.8
	3	8.04	9.1	83	170	213	-22	308	0.55	2.974	2.785	-3.3
	5	7.91	7.8	56	205	157	26	241	0.85	2.290	2.010	-6.5
	10	7.41	4.4	143	162	223	-32	326	0.50	3.121	3.381	4.0
	15	7.53	4.2	201	301	300	0	429	0.70	4.355	4.582	2.5
	20	7.33	5.1	159	246	242	2	358	0.69	3.605	3.610	0.1
	25	7.05	4.2	178	214	245	-13	347	0.62	3.345	3.871	7.3

Only positive values are listed (TDS det. lim 30-60 mg/L; sulphate det. lim 3 mg/L).

TABLE C-9

QUALITY CONTROL SUMMARY

PHASE II KINETIC TESTING

Column ID	Week	pH	SiO2	SO4	TDS Measured	TDS Calculated	TDS RPD	EC Measured	TDS/EC	Sum of Cations	Sum of Anions	Ion% Difference
			mg/L	*mg/L*	*mg/L*	*mg/L*	*%*	*uS/cm*	*ratio*	*meq/L*	*meq/L*	*%*
Column II-07												
	0	8.36	8.5	43	152	221	-37	281	0.54	2.678	2.719	0.8
	1	8.15	5.8	17	90	141	-44	168	0.54	1.578	1.704	3.8
	3	7.63	4.9	7		90		104		1.063	1.035	-1.3
	5	8.04	3.9	4	52	101	-64	118	0.44	1.191	1.204	0.6
	10	8.19	3.0	5		70		79		0.701	0.906	12.8
	15	7.89	3.1	4	57	73	-25	83	0.69	0.853	0.897	2.5
	20	7.73	4.0	13	48	83	-53	97	0.49	0.973	1.040	3.3
	25	7.88	3.6	5	38	65	-53	80	0.48	0.787	0.784	-0.2

Only positive values are listed (TDS det. lim 30-60 mg/L; sulphate det. lim 3 mg/L).

TABLE C-9

QUALITY CONTROL SUMMARY

PHASE II KINETIC TESTING

Column ID	Week	pH	SiO2	SO4	TDS Measured	TDS Calculated	TDS RPD	EC Measured	TDS/EC	Sum of Cations	Sum of Anions	Ion% Difference
			mg/L	*mg/L*	*mg/L*	*mg/L*	*%*	*uS/cm*	*ratio*	*meq/L*	*meq/L*	*%*
Column II-08												
	0	7.32	4.8	137	246	231	6	333	0.74	3.025	3.199	2.8
	1	7.26	6.9	56	162	107	41	147	1.10	1.302	1.391	3.3
	3	6.79	6.4	29	82	61	29	78	1.05	0.790	0.718	-4.8
	5	6.95	6.0	9	92	32	98	39	2.36	0.419	0.315	-14.1
	10	6.44	3.6	16		34		44		0.393	0.404	1.4
	15	6.36	3.6	14		31		40		0.389	0.366	-3.0
	20	5.86	4.4	44	77	69	11	108	0.71	0.982	0.946	-1.9
	25	5.41	4.0	40	53	60	-12	99	0.54	0.757	0.863	6.5

Only positive values are listed (TDS det. lim 30-60 mg/L; sulphate det. lim 3 mg/L).

TABLE C-9

QUALITY CONTROL SUMMARY

PHASE II KINETIC TESTING

Column ID	Week	pH	SiO2	SO4	TDS Measured	TDS Calculated	TDS RPD	EC Measured	TDS/EC	Sum of Cations	Sum of Anions	Ion% Difference
			mg/L	*mg/L*	*mg/L*	*mg/L*	*%*	*uS/cm*	*ratio*	*meq/L*	*meq/L*	*%*
Column II-09												
	0	8.22	8.1	52	188	215	-13	254	0.74	2.581	2.666	1.6
	1	7.95	6.4	19	95	101	-6	111	0.86	1.221	1.201	-0.8
	3	9.09	10.6	15	140	158	-12	176	0.80	2.105	1.699	-10.7
	5	8.38	7.7	3	168	123	31	130	1.29	1.601	1.325	-9.4
	10	8.32	5.0	15	52	110	-71	127	0.41	1.276	1.294	0.7
	15	7.75	6.7	11	89	97	-9	104	0.86	1.235	1.074	-7.0
	20	7.7	5.9	25	103	109	-6	135	0.76	1.378	1.301	-2.9
	25	7.92	5.6	10	64	96	-40	114	0.56	1.149	1.108	-1.8

Only positive values are listed (TDS det. lim 30-60 mg/L; sulphate det. lim 3 mg/L).

TABLE C-9

QUALITY CONTROL SUMMARY

PHASE II KINETIC TESTING

Column ID	Week	pH	SiO2	SO4	TDS Measured	TDS Calculated	TDS RPD	EC Measured	TDS/EC	Sum of Cations	Sum of Anions	Ion% Difference
			mg/L	*mg/L*	*mg/L*	*mg/L*	*%*	*uS/cm*	*ratio*	*meq/L*	*meq/L*	*%*
Column II-10												
	0	8.16	12.3	25	134	169	-23	198	0.68	2.012	1.894	-3.0
	1	8.29	10.2	9	118	117	1	123	0.96	1.317	1.294	-0.9
	3	7.46	3.9	6		53		55		0.621	0.597	-1.9
	5	7.55	4.1	4	70	50	34	48	1.46	0.597	0.544	-4.6
	10	7.66	2.8	9		38		42		0.416	0.458	4.8
	15	7.14	2.8	5		29		28		0.361	0.320	-6.0
	20	7.34	4.7	22	60	66	-9	86	0.70	0.841	0.759	-5.2
	25	7.2	3.9	7		30		35		0.350	0.336	-2.2

Notes:

1. Refer to Calculated TDS Summary Report for basis of Calculated TDS values.
2. TDS Relative Percent Difference (RPD): (Measured TDS - Calc. TDS)/(0.5 *(Measured TDS + Calc. TDS)) * 100
3. Refer to Ion Balance Summary Report for calculation of Anions and Cations (meq/L).
4. Ion % Difference: ([Anions] - [Cations])/([Anions]+[Cations]) * 100
5. Results less than the detection limit are not listed. TDS detection limits range between 30 and 60 mg/L.

Only positive values are listed (TDS det. lim 30-60 mg/L; sulphate det. lim 3 mg/L).

TABLE C-10
REPORTING LIMITS COMPARED TO REGULATORY LIMITS
PHASE II KINETIC TESTING

Parameter	Minimum Reporting Limit mg/L	Maximum Reporting Limit mg/L	Lowest Regulatory Limit mg/L
Aluminum	0.001	0.001	0.05
Ammonia	0.02	0.02	0.029
Arsenic	0.0001	0.0002	0.01
Beryllium	0.0005	0.001	0.000072
Boron	0.01	0.01	1.9
Cadmium	0.00005	0.0001	0.000094
Chloride	0.5	0.5	230
Chromium	0.0005	0.001	0.036
Cobalt	0.0001	0.0001	0.1
Fluoride	0.02	0.02	2
Iron	0.03	0.03	0.3
Lead	0.00005	0.0001	0.0005
Lithium	0.005	0.01	0.096
Mercury	0.00005	0.00005	0.0000013
Molybdenum	0.00005	0.0001	0.12
Nickel	0.0005	0.0005	0.016
Nitrite/Nitrate	0.005	0.05	10
Selenium	0.001	0.002	0.005
Silver	0.00001	0.00002	0.00006
Sulphate	3	3	250
Thallium	0.0001	0.0002	0.0012
Uranium	0.00001	0.00002	0.03
Vanadium	0.001	0.002	0.012
Zinc	0.001	0.002	0.036

Reporting limits for ICP-MS analyses unless otherwise noted.
Regulatory limits from the project Sampling and Analysis Program (Geochimica, 2004).

APPENDIX C-1
QUALITY CONTROL REPORT

ION BALANCE EVALUATION
FOR
PHASE I AND II KINETIC TESTING

APPENDIX C-1
Conversion Factors used in Calculating Ion Balance and TDS

Type	Parameter	Convert to Ion Conc. (mg/L)	Ion Conversion Factor	IonSymbol	Molecular Wt. of Ion	Ion Charge	Form Factor
Anion	Alkalinity	TRUE	1.219	HCO3-	61.0171	1	0.016388848
	Arsenic	TRUE	1.91	As(OH)4-	142.95	1	0.006995453
	Chloride		1	Cl-	35.453	1	0.028206358
	Fluoride		1	F-	18.9984	1	0.052636011
	Nitrite/Nitrate	TRUE	4.425	NO3-	62.0049	1	0.016127758
	Phosphorous	TRUE	3.132	H2PO4-	96.9871	1	0.01031065
	Selenium	TRUE	1.81	SeO4 2-	138.918	2	0.014396982
	Sulphate		1	SO4 2-	96.0576	2	0.020820841
Cation	Aluminum		1	Al 3+	26.9815	3	0.111187295
	Ammonia	TRUE	1.288	NH4+	18.0383	1	0.055437597
	Barium		1	Ba 2+	137.22	2	0.014575135
	Beryllium		1	Be 2+	9.0121	2	0.221923858
	Cadmium		1	Cd 2+	112.41	2	0.017792011
	Calcium		1	Ca 2+	40.08	2	0.0499002
	Cobalt		1	Co 2+	58.9332	2	0.033936728
	Copper		1	Cu 2+	63.546	2	0.031473263
	Iron		1	Fe 2+	55.847	2	0.03581213
	Lead		1	Pb 2+	207.2	2	0.00965251
	Lithium		1	Li +	6.941	1	0.144071459
	Magnesium		1	Mg 2+	24.305	2	0.082287595
	Manganese		1	Mn 2+	54.938	2	0.036404674
	Nickel		1	Ni 2+	58.7	2	0.03407155
	Potassium		1	K+	39.0983	1	0.02557656
	Silver		1	Ag +	107.868	1	0.00927059
	Sodium		1	Na +	22.9897	1	0.04349774
	Strontium		1	Sr 2+	87.62	2	0.022825839
	Uranium	TRUE	1.134	UO2+	270.0278	2	0.007406645
	Zinc		1	Zn 2+	65.38	2	0.030590395
Summary	Conductivity						
	Leachate pH						
	Redox						
	Total Dissolved Solids						
Undissociated	Boron	TRUE	5.72	B(OH)3			
	Silicon	TRUE	2.14	SiO2			

Other Parameter in Database				
	Acidity (pH 4.5)	Chromium	Thallium	Vol Leachate
	Acidity (pH 8.3)	Mercury	Tin	Vol Water Added
	Antimony	Molybdenum	Titanium	
	Bismuth	pH Added Water	Vanadium	

APPENDIX C-1
ION BALANCE SUMMARY--PHASE I KINETIC TESTING

Parameter Measured	Ionic Species	Week 0		Week 1		Week 3		Week 5	
		mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Column No. I-01									
anion									
Alkalinity	HCO3-	55	1.0988	63	1.2586	26	0.5194	21	0.4195
Arsenic	As(OH)4-	0.0486	0.0006	0.0237	0.0003	0.0257	0.0003	0.0233	0.0003
Chloride	Cl-	12.2	0.3441	0.84	0.0237				
Fluoride	F-	0.52	0.0274	0.254	0.0134	0.094	0.0049	0.053	0.0028
Nitrite/Nitrate	NO3-	0.147	0.0105	0.0389	0.0028	0.0231	0.0016	0.013	0.0009
Phosphorous	H2PO4-								
Selenium	SeO4 2-	0.0021	0.0001						
Sulphate	SO4 2-	29	0.6038	14	0.2915	15	0.3123	25	0.5205
Sum of anions (meq/L)			**2.085**		**1.590**		**0.839**		**0.944**
cation									
Aluminum	Al 3+	0.978	0.1087	0.303	0.0337	0.162	0.0180	0.0873	0.0097
Ammonia	NH4+	0.26	0.0186	0.096	0.0069	0.081	0.0058	0.033	0.0024
Barium	Ba 2+	0.0016	0.0000	0.00143	0.0000	0.000638	0.0000	0.000681	0.0000
Beryllium	Be 2+								
Cadmium	Cd 2+	0.000066	0.0000						
Calcium	Ca 2+	0.528	0.0263	1.19	0.0594	2.75	0.1372	4.62	0.2305
Cobalt	Co 2+	0.00023	0.0000			0.00013	0.0000	0.00021	0.0000
Copper	Cu 2+	0.00808	0.0003	0.00225	0.0001	0.00149	0.0000	0.00079	0.0000
Iron	Fe 2+	0.21	0.0075	0.062	0.0022				
Lead	Pb 2+	0.000748	0.0000	0.0003	0.0000	0.000323	0.0000	0.00007	0.0000
Lithium	Li +					0.0095	0.0014	0.0086	0.0012
Magnesium	Mg 2+	0.52	0.0428	0.72	0.0592	1.62	0.1333	2.89	0.2378
Manganese	Mn 2+	0.00245	0.0001	0.00258	0.0001	0.00379	0.0001	0.00745	0.0003
Nickel	Ni 2+	0.00098	0.0000					0.00063	0.0000
Potassium	K+	5.5	0.1407	8.3	0.2123	6.9	0.1765	4.4	0.1125
Silver	Ag +	0.000595	0.0000	0.000126	0.0000	0.000139	0.0000	0.000022	0.0000
Sodium	Na +	40.6	1.7660	29.5	1.2832	10.7	0.4654	8.2	0.3567
Strontium	Sr 2+	0.00915	0.0002	0.0227	0.0005	0.053	0.0012	0.0878	0.0020
Uranium	UO2+	0.000201	0.0000	0.000195	0.0000	0.000091	0.0000	0.000115	0.0000
Zinc	Zn 2+	0.004	0.0001					0.0015	0.0000
Sum of cations (meq/L)			**2.111**		**1.658**		**0.939**		**0.953**

APPENDIX C-1
ION BALANCE SUMMARY--PHASE I KINETIC TESTING

Parameter Measured	Ionic Species	Week 0		Week 1		Week 3		Week 5	
		mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Column No. I-02									
anion									
Alkalinity	HCO3-	3.5	0.0699	0	0.0000	0	0.0000	0	0.0000
Arsenic	As(OH)4-								
Chloride	Cl-	124	3.4976	29.6	0.8349	3.82	0.1077	12.3	0.3469
Fluoride	F-	0.024	0.0013			2.6	0.1369	0.025	0.0013
Nitrite/Nitrate	NO3-	0.388	0.0277	0.0814	0.0058	0.059	0.0042	0.0801	0.0057
Phosphorous	H2PO4-								
Selenium	SeO4 2-								
Sulphate	SO4 2-	542	11.2849	837	17.4270	1220	25.4014	991	20.6335
Sum of anions (meq/L)			**14.881**		**18.268**		**25.650**		**20.987**
cation									
Aluminum	Al 3+			0.121	0.0135	0.12	0.0133	0.3	0.0334
Ammonia	NH4+	0.486	0.0347	0.392	0.0280	0.09	0.0064	0.042	0.0030
Barium	Ba 2+	0.0582	0.0008	0.0431	0.0006	0.0214	0.0003	0.0147	0.0002
Beryllium	Be 2+								
Cadmium	Cd 2+			0.0773	0.0014	0.0612	0.0011	0.0254	0.0005
Calcium	Ca 2+	19	0.9481	21.3	1.0629	4.08	0.2036	2.08	0.1038
Cobalt	Co 2+	0.464	0.0157	4.81	0.1632	8.21	0.2786	6.78	0.2301
Copper	Cu 2+	0.0539	0.0017	0.0752	0.0024	0.818	0.0257	0.634	0.0200
Iron	Fe 2+	97.6	3.4953	176	6.3029	290	10.3855	232	8.3084
Lead	Pb 2+	0.0032	0.0000	0.014	0.0001	0.0525	0.0005	0.049	0.0005
Lithium	Li +								
Magnesium	Mg 2+	16.9	1.3907	22.3	1.8350	9.42	0.7751	6.53	0.5373
Manganese	Mn 2+	10.2	0.3713	9.81	0.3571	9.2	0.3349	7.82	0.2847
Nickel	Ni 2+	148	5.0426	276	9.4037	405	13.7990	338	11.5162
Potassium	K+	5.2	0.1330						
Silver	Ag +								
Sodium	Na +	33.2	1.4441	18.1	0.7873				
Strontium	Sr 2+	0.378	0.0086	0.301	0.0069	0.029	0.0007	0.015	0.0003
Uranium	UO2+								
Zinc	Zn 2+	0.537	0.0164	2.48	0.0759	0.89	0.0272	0.32	0.0098
Sum of cations (meq/L)			**12.903**		**20.041**		**25.852**		**21.048**

APPENDIX C-1
ION BALANCE SUMMARY--PHASE I KINETIC TESTING

Parameter Measured	Ionic Species	Week 0		Week 1		Week 3		Week 5	
		mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Column No. I-03									
anion									
Alkalinity	HCO3-	29.5	0.5894	122.5	2.4473	67	1.3385	61	1.2187
Arsenic	As(OH)4-			0.00135	0.0000	0.00323	0.0000	0.00048	0.0000
Chloride	Cl-	203	5.7259	198	5.5849	54.9	1.5485	38.4	1.0831
Fluoride	F-	0.025	0.0013	0.022	0.0012			0.05	0.0026
Nitrite/Nitrate	NO3-	0.0688	0.0049					0.0054	0.0004
Phosphorous	H2PO4-								
Selenium	SeO4 2-								
Sulphate	SO4 2-			6	0.1249	7	0.1457	4	0.0833
Sum of anions (meq/L)			**6.321**		**8.158**		**3.033**		**2.388**
cation									
Aluminum	Al 3+	0.0035	0.0004	0.0066	0.0007	0.0031	0.0003	0.0026	0.0003
Ammonia	NH4+	0.154	0.0110	0.03	0.0021	0.022	0.0016		
Barium	Ba 2+	0.0674	0.0010	0.0537	0.0008	0.036	0.0005	0.0336	0.0005
Beryllium	Be 2+								
Cadmium	Cd 2+								
Calcium	Ca 2+	20.2	1.0080	14.1	0.7036	9.87	0.4925	10.3	0.5140
Cobalt	Co 2+	0.00027	0.0000	0.00044	0.0000	0.00014	0.0000		
Copper	Cu 2+	0.00209	0.0001	0.00577	0.0002	0.00104	0.0000	0.00094	0.0000
Iron	Fe 2+								
Lead	Pb 2+	0.000121	0.0000	0.0002	0.0000	0.000156	0.0000	0.000104	0.0000
Lithium	Li +								
Magnesium	Mg 2+	38.9	3.2010	58.7	4.8303	19.2	1.5799	14.4	1.1849
Manganese	Mn 2+	0.00458	0.0002	0.00848	0.0003	0.00336	0.0001	0.00283	0.0001
Nickel	Ni 2+	0.00926	0.0003	0.0169	0.0006	0.00401	0.0001	0.00205	0.0001
Potassium	K+	25.5	0.6522	34.7	0.8875	18.7	0.4783	15.3	0.3913
Silver	Ag +							0.000218	0.0000
Sodium	Na +	26.4	1.1483	29.6	1.2875	10.7	0.4654	7.9	0.3436
Strontium	Sr 2+	0.16	0.0037	0.0921	0.0021	0.0518	0.0012	0.0469	0.0011
Uranium	UO2+								
Zinc	Zn 2+	0.0017	0.0001	0.0025	0.0001			0.0011	0.0000
Sum of cations (meq/L)			**6.026**		**7.716**		**3.020**		**2.436**

APPENDIX C-1
ION BALANCE SUMMARY--PHASE I KINETIC TESTING

Parameter Measured	Ionic Species	Week 0		Week 1		Week 3		Week 5	
		mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Column No. I-04									
anion									
Alkalinity	HCO3-	61	1.2187	159	3.1765	58	1.1587	46	0.9190
Arsenic	As(OH)4-	0.00071	0.0000	0.00111	0.0000			0.00053	0.0000
Chloride	Cl-	96.8	2.7304	34	0.9590	7.07	0.1994	130	3.6668
Fluoride	F-	0.026	0.0014	0.022	0.0012			0.025	0.0013
Nitrite/Nitrate	NO3-	0.0839	0.0060					0.0076	0.0005
Phosphorous	H2PO4-								
Selenium	SeO4 2-							0.0025	0.0001
Sulphate	SO4 2-	40	0.8328	112	2.3319	106	2.2070	119	2.4777
Sum of anions (meq/L)			**4.789**		**6.469**		**3.565**		**7.065**
cation									
Aluminum	Al 3+							0.0022	0.0002
Ammonia	NH4+	0.104	0.0074	0.051	0.0036				
Barium	Ba 2+	0.00736	0.0001	0.0182	0.0003	0.0196	0.0003	0.0186	0.0003
Beryllium	Be 2+								
Cadmium	Cd 2+								
Calcium	Ca 2+	5.58	0.2784	11.8	0.5888	20.3	1.0130	22.9	1.1427
Cobalt	Co 2+			0.00184	0.0001	0.00226	0.0001	0.00178	0.0001
Copper	Cu 2+	0.00514	0.0002	0.0594	0.0019	0.0128	0.0004	0.0118	0.0004
Iron	Fe 2+								
Lead	Pb 2+					0.00051	0.0000		
Lithium	Li +								
Magnesium	Mg 2+	15.5	1.2755	68.8	5.6614	47.1	3.8757	40.2	3.3080
Manganese	Mn 2+	0.00122	0.0000	0.0105	0.0004	0.0121	0.0004	0.0149	0.0005
Nickel	Ni 2+	0.0224	0.0008	0.121	0.0041	0.101	0.0034	0.0703	0.0024
Potassium	K+	12.5	0.3197	43.2	1.1049	32.3	0.8261	27.4	0.7008
Silver	Ag +			0.000899	0.0000	0.000388	0.0000	0.000406	0.0000
Sodium	Na +	42.2	1.8356	79.4	3.4537	29.8	1.2962	20	0.8700
Strontium	Sr 2+	0.0721	0.0016	0.162	0.0037	0.16	0.0037	0.113	0.0026
Uranium	UO2+								
Zinc	Zn 2+							0.0035	0.0001
Sum of cations (meq/L)			**3.719**		**10.823**		**7.019**		**6.028**

APPENDIX C-1
ION BALANCE SUMMARY--PHASE I KINETIC TESTING

Parameter Measured	Ionic Species	Week 0		Week 1		Week 3		Week 5	
		mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Column No. I-05									
anion									
Alkalinity	HCO3-	74	1.4784	98	1.9578	40.5	0.8091	34.5	0.6892
Arsenic	As(OH)4-	0.024	0.0003	0.0132	0.0002	0.0253	0.0003	0.02	0.0003
Chloride	Cl-	12.4	0.3498	1.82	0.0513	0.89	0.0251	1.55	0.0437
Fluoride	F-	0.745	0.0392	0.248	0.0131	0.191	0.0101	0.067	0.0035
Nitrite/Nitrate	NO3-	0.118	0.0084	0.0404	0.0029	0.0359	0.0026	0.0174	0.0012
Phosphorous	H2PO4-								
Selenium	SeO4 2-	0.0022	0.0001	0.00097	0.0000	0.0014	0.0000		
Sulphate	SO4 2-	11	0.2290	6	0.1249	10	0.2082	15	0.3123
Sum of anions (meq/L)			**2.105**		**2.150**		**1.055**		**1.050**
cation									
Aluminum	Al 3+	1.2	0.1334	0.196	0.0218	0.296	0.0329	0.155	0.0172
Ammonia	NH4+	0.415	0.0296	0.154	0.0110	0.06	0.0043		
Barium	Ba 2+	0.00161	0.0000	0.00232	0.0000	0.00115	0.0000	0.00176	0.0000
Beryllium	Be 2+								
Cadmium	Cd 2+								
Calcium	Ca 2+	0.993	0.0496	4.38	0.2186	4.33	0.2161	6.58	0.3283
Cobalt	Co 2+	0.00013	0.0000						
Copper	Cu 2+	0.00511	0.0002	0.00149	0.0000	0.00163	0.0001	0.00122	0.0000
Iron	Fe 2+	0.095	0.0034						
Lead	Pb 2+	0.000643	0.0000	0.000195	0.0000	0.000177	0.0000	0.000055	0.0000
Lithium	Li +			0.0129	0.0019	0.009	0.0013	0.0092	0.0013
Magnesium	Mg 2+	0.34	0.0280	1.92	0.1580	1.61	0.1325	2.1	0.1728
Manganese	Mn 2+	0.000797	0.0000	0.00335	0.0001	0.00151	0.0001	0.00239	0.0001
Nickel	Ni 2+	0.0006	0.0000	0.00056	0.0000				
Potassium	K+	7.5	0.1918	14.7	0.3760	8.5	0.2174	6.7	0.1714
Silver	Ag +	0.000017	0.0000	0.000038	0.0000	0.00007	0.0000		
Sodium	Na +	39.1	1.7008	33	1.4354	13.1	0.5698	8.7	0.3784
Strontium	Sr 2+	0.0121	0.0003	0.0647	0.0015	0.054	0.0012	0.0665	0.0015
Uranium	UO2+	0.000157	0.0000	0.000239	0.0000	0.000142	0.0000	0.000194	0.0000
Zinc	Zn 2+	0.0016	0.0000					0.0012	0.0000
Sum of cations (meq/L)			**2.137**		**2.224**		**1.176**		**1.071**

APPENDIX C-1
ION BALANCE SUMMARY--PHASE I KINETIC TESTING

Parameter Measured	Ionic Species	Week 10		Week 15		Week 20		Week 25	
		mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Column No. I-01									
anion									
Alkalinity	HCO3-	18.5	0.3696	18	0.3596	16	0.3196	14.5	0.2897
Arsenic	As(OH)4-	0.017	0.0002	0.0121	0.0002	0.00816	0.0001	0.00613	0.0001
Chloride	Cl-			0.57	0.0161			0.57	0.0161
Fluoride	F-	0.073	0.0038	0.03	0.0016	0.027	0.0014	0.061	0.0032
Nitrite/Nitrate	NO3-	0.0115	0.0008	0.027	0.0019	0.019	0.0014	0.017	0.0012
Phosphorous	H2PO4-								
Selenium	SeO4 2-								
Sulphate	SO4 2-	21	0.4372	28	0.5830	35	0.7287	46	0.9578
Sum of anions (meq/L)			**0.812**		**0.962**		**1.051**		**1.268**
cation									
Aluminum	Al 3+	0.0572	0.0064	0.039	0.0043	0.0312	0.0035	0.0309	0.0034
Ammonia	NH4+			0.022	0.0016	0.038	0.0027	0.03	0.0021
Barium	Ba 2+	0.000741	0.0000	0.000689	0.0000	0.0012	0.0000	0.0019	0.0000
Beryllium	Be 2+								
Cadmium	Cd 2+								
Calcium	Ca 2+	5.78	0.2884	6.87	0.3428	7.71	0.3847	9.88	0.4930
Cobalt	Co 2+	0.00035	0.0000	0.00072	0.0000	0.0015	0.0001	0.00214	0.0001
Copper	Cu 2+	0.00205	0.0001	0.00099	0.0000	0.00898	0.0003	0.0004	0.0000
Iron	Fe 2+								
Lead	Pb 2+							0.000108	0.0000
Lithium	Li +	0.0054	0.0008						
Magnesium	Mg 2+	3.73	0.3069	4.43	0.3645	5.18	0.4262	6.67	0.5489
Manganese	Mn 2+	0.0143	0.0005	0.0245	0.0009	0.0419	0.0015	0.0642	0.0023
Nickel	Ni 2+	0.00086	0.0000	0.00158	0.0001	0.00251	0.0001	0.00344	0.0001
Potassium	K+	2.5	0.0639	2.3	0.0588				
Silver	Ag +	0.000211	0.0000						
Sodium	Na +	4.5	0.1957	2.8	0.1218	2.2	0.0957	2.1	0.0913
Strontium	Sr 2+	0.0855	0.0020	0.0941	0.0021	0.0948	0.0022	0.118	0.0027
Uranium	UO2+	0.000097	0.0000	0.000107	0.0000	0.000062	0.0000	0.00007	0.0000
Zinc	Zn 2+			0.0011	0.0000	0.0042	0.0001	0.0033	0.0001
Sum of cations (meq/L)			**0.865**		**0.897**		**0.917**		**1.144**

APPENDIX C-1
ION BALANCE SUMMARY--PHASE I KINETIC TESTING

Parameter Measured	Ionic Species	Week 10		Week 15		Week 20		Week 25	
		mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Column No. I-02									
anion									
Alkalinity	HCO3-	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Arsenic	As(OH)4-	0.0026	0.0000						
Chloride	Cl-	10.7	0.3018	12.4	0.3498	1.82	0.0513		
Fluoride	F-	0.042	0.0022						
Nitrite/Nitrate	NO3-	0.584	0.0417	0.034	0.0024	0.022	0.0016		
Phosphorous	H2PO4-								
Selenium	SeO4 2-	0.034	0.0009						
Sulphate	SO4 2-	629	13.0963	374	7.7870	383	7.9744		
Sum of anions (meq/L)			**13.443**		**8.139**		**8.027**		**0.000**
cation									
Aluminum	Al 3+								
Ammonia	NH4+					0.04	0.0029		
Barium	Ba 2+	0.0079	0.0001	0.0074	0.0001	0.0067	0.0001		
Beryllium	Be 2+								
Cadmium	Cd 2+	0.0073	0.0001	0.0028	0.0000	0.0024	0.0000		
Calcium	Ca 2+	1.65	0.0823	1.21	0.0604	1.13	0.0564		
Cobalt	Co 2+	2.27	0.0770	0.939	0.0319	0.674	0.0229		
Copper	Cu 2+	0.0039	0.0001	0.02	0.0006	0.0124	0.0004		
Iron	Fe 2+	165	5.9090	128	4.5840	138	4.9421		
Lead	Pb 2+	0.0061	0.0001	0.0038	0.0000	0.0066	0.0001		
Lithium	Li +								
Magnesium	Mg 2+	6.01	0.4945	4.14	0.3407	3.85	0.3168		
Manganese	Mn 2+	5.29	0.1926	3.28	0.1194	2.72	0.0990		
Nickel	Ni 2+	141	4.8041	83.9	2.8586	67.7	2.3066		
Potassium	K+								
Silver	Ag +								
Sodium	Na +								
Strontium	Sr 2+	0.0179	0.0004	0.0156	0.0004	0.0161	0.0004		
Uranium	UO2+								
Zinc	Zn 2+	0.051	0.0016	0.03	0.0009	0.031	0.0009		
Sum of cations (meq/L)			**11.562**		**7.997**		**7.749**		

APPENDIX C-1
ION BALANCE SUMMARY--PHASE I KINETIC TESTING

Parameter Measured	Ionic Species	Week 10		Week 15		Week 20		Week 25	
		mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Column No. I-03									
anion									
Alkalinity	HCO3-	58.5	1.1687	55.5	1.1088	51	1.0189	39.5	0.7891
Arsenic	As(OH)4-	0.00066	0.0000	0.00073	0.0000	0.00029	0.0000	0.00026	0.0000
Chloride	Cl-	23.5	0.6628	18.8	0.5303	18.4	0.5190	17.1	0.4823
Fluoride	F-	0.037	0.0019						
Nitrite/Nitrate	NO3-	0.0144	0.0010	0.022	0.0016	0.012	0.0009		
Phosphorous	H2PO4-								
Selenium	SeO4 2-								
Sulphate	SO4 2-	4	0.0833	5	0.1041			3	0.0625
Sum of anions (meq/L)			**1.918**		**1.745**		**1.539**		**1.334**
cation									
Aluminum	Al 3+	0.0067	0.0007	0.0036	0.0004	0.0035	0.0004	0.0035	0.0004
Ammonia	NH4+					0.035	0.0025		
Barium	Ba 2+	0.0386	0.0006	0.0412	0.0006	0.0445	0.0006	0.0361	0.0005
Beryllium	Be 2+								
Cadmium	Cd 2+								
Calcium	Ca 2+	11	0.5489	10.8	0.5389	11	0.5489	9.26	0.4621
Cobalt	Co 2+							0.00017	0.0000
Copper	Cu 2+	0.00226	0.0001	0.00086	0.0000	0.00764	0.0002	0.0007	0.0000
Iron	Fe 2+								
Lead	Pb 2+	0.000239	0.0000			0.000061	0.0000		
Lithium	Li +								
Magnesium	Mg 2+	10.2	0.8393	8.54	0.7027	7.9	0.6501	5.99	0.4929
Manganese	Mn 2+	0.00311	0.0001	0.00343	0.0001	0.00368	0.0001	0.004	0.0001
Nickel	Ni 2+	0.00337	0.0001	0.00206	0.0001	0.00242	0.0001	0.0131	0.0004
Potassium	K+	10.7	0.2737	8.7	0.2225	7.3	0.1867	6.1	0.1560
Silver	Ag +	0.000047	0.0000						
Sodium	Na +	5	0.2175	3.5	0.1522	3.4	0.1479	2.9	0.1261
Strontium	Sr 2+	0.0433	0.0010	0.0397	0.0009	0.0373	0.0009	0.0312	0.0007
Uranium	UO2+	0.000035	0.0000	0.000088	0.0000				
Zinc	Zn 2+					0.0016	0.0000	0.0035	0.0001
Sum of cations (meq/L)			**1.882**		**1.619**		**1.538**		**1.239**

APPENDIX C-1
ION BALANCE SUMMARY--PHASE I KINETIC TESTING

Parameter Measured	Ionic Species	Week 10		Week 15		Week 20		Week 25	
		mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Column No. I-04									
anion									
Alkalinity	HCO3-	26	0.5194	12.5	0.2497	7	0.1398	5	0.0999
Arsenic	As(OH)4-	0.00036	0.0000	0.00046	0.0000	0.00034	0.0000	0.0004	0.0000
Chloride	Cl-	85.7	2.4173	54.7	1.5429	2.33	0.0657	43.1	1.2157
Fluoride	F-	0.032	0.0017						
Nitrite/Nitrate	NO3-	0.0167	0.0012	0.026	0.0019	0.016	0.0011	0.013	0.0009
Phosphorous	H2PO4-								
Selenium	SeO4 2-	0.0024	0.0001	0.0038	0.0001	0.0074	0.0002	0.0107	0.0003
Sulphate	SO4 2-	122	2.5401	187	3.8935	288	5.9964	332	6.9125
Sum of anions (meq/L)			**5.480**		**5.688**		**6.203**		**8.229**
cation									
Aluminum	Al 3+	0.0012	0.0001						
Ammonia	NH4+					0.034	0.0024		
Barium	Ba 2+	0.0237	0.0003	0.0355	0.0005	0.0458	0.0007	0.039	0.0006
Beryllium	Be 2+								
Cadmium	Cd 2+	0.000051	0.0000	0.000063	0.0000	0.00018	0.0000	0.000252	0.0000
Calcium	Ca 2+	21.5	1.0729	18	0.8982	16.4	0.8184	12.4	0.6188
Cobalt	Co 2+	0.00255	0.0001	0.00595	0.0002	0.0142	0.0005	0.0293	0.0010
Copper	Cu 2+	0.0185	0.0006	0.0045	0.0001	0.0318	0.0010	0.00286	0.0001
Iron	Fe 2+								
Lead	Pb 2+								
Lithium	Li +								
Magnesium	Mg 2+	34.4	2.8307	40.4	3.3244	59	4.8550	65.6	5.3981
Manganese	Mn 2+	0.0285	0.0010	0.0847	0.0031	0.179	0.0065	0.365	0.0133
Nickel	Ni 2+	0.0877	0.0030	0.341	0.0116	1.21	0.0412	4.16	0.1417
Potassium	K+	18.4	0.4706	17.8	0.4553	16.5	0.4220	16.2	0.4143
Silver	Ag +	0.000311	0.0000	0.000101	0.0000	0.00024	0.0000	0.000028	0.0000
Sodium	Na +	9.6	0.4176	6.8	0.2958	6.3	0.2740	5.4	0.2349
Strontium	Sr 2+	0.0647	0.0015	0.0761	0.0017	0.0738	0.0017	0.0779	0.0018
Uranium	UO2+								
Zinc	Zn 2+	0.0029	0.0001	0.0076	0.0002	0.0181	0.0006	0.0231	0.0007
Sum of cations (meq/L)			**4.798**		**4.991**		**6.424**		**6.825**

APPENDIX C-1
ION BALANCE SUMMARY--PHASE I KINETIC TESTING

Parameter Measured	Ionic Species	Week 10		Week 15		Week 20		Week 25	
		mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Column No. I-05									
anion									
Alkalinity	HCO3-	28.5	0.5694	23.5	0.4695	18.5	0.3696	16.5	0.3296
Arsenic	As(OH)4-	0.0109	0.0001	0.00717	0.0001	0.00511	0.0001	0.00355	0.0000
Chloride	Cl-	1.27	0.0358	0.9	0.0254			0.99	0.0279
Fluoride	F-	0.075	0.0039	0.034	0.0018	0.051	0.0027	0.048	0.0025
Nitrite/Nitrate	NO3-	0.0156	0.0011	0.028	0.0020	0.01	0.0007	0.015	0.0011
Phosphorous	H2PO4-								
Selenium	SeO4 2-								
Sulphate	SO4 2-	20	0.4164	20	0.4164	31	0.6454	30	0.6246
Sum of anions (meq/L)			**1.027**		**0.915**		**1.019**		**0.986**
cation									
Aluminum	Al 3+	0.152	0.0169	0.122	0.0136	0.098	0.0109	0.0743	0.0083
Ammonia	NH4+					0.031	0.0022		
Barium	Ba 2+	0.00142	0.0000	0.00166	0.0000	0.00143	0.0000	0.00166	0.0000
Beryllium	Be 2+								
Cadmium	Cd 2+								
Calcium	Ca 2+	9.72	0.4850	9.99	0.4985	11.1	0.5539	11.2	0.5589
Cobalt	Co 2+							0.00013	0.0000
Copper	Cu 2+	0.00306	0.0001	0.00177	0.0001	0.00672	0.0002	0.00037	0.0000
Iron	Fe 2+								
Lead	Pb 2+								
Lithium	Li +	0.0068	0.0010						
Magnesium	Mg 2+	2.4	0.1975	1.91	0.1572	2.31	0.1901	2.26	0.1860
Manganese	Mn 2+	0.00485	0.0002	0.00632	0.0002	0.00871	0.0003	0.0125	0.0005
Nickel	Ni 2+	0.0014	0.0000			0.00276	0.0001	0.00894	0.0003
Potassium	K+	2.9	0.0742	2.3	0.0588	3.6	0.0921		
Silver	Ag +	0.000021	0.0000						
Sodium	Na +	4.9	0.2131	2.5	0.1087				
Strontium	Sr 2+	0.0685	0.0016	0.0671	0.0015	0.0677	0.0015	0.0811	0.0019
Uranium	UO2+	0.000189	0.0000	0.000155	0.0000	0.000116	0.0000	0.000071	0.0000
Zinc	Zn 2+	0.0011	0.0000			0.0014	0.0000	0.0018	0.0001
Sum of cations (meq/L)			**0.990**		**0.839**		**0.851**		**0.756**

APPENDIX C-1
ION BALANCE SUMMARY--PHASE I KINETIC TESTING

Parameter Measured	Ionic Species	Week 30		Week 40		Week 50	
		mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Column No. I-01							
anion							
Alkalinity	HCO3-	17.5	0.3496	9	0.1798	6	0.1199
Arsenic	As(OH)4-	0.00395	0.0001	0.00135	0.0000	0.00049	0.0000
Chloride	Cl-						
Fluoride	F-	0.038	0.0020	0.038	0.0020	0.048	0.0025
Nitrite/Nitrate	NO3-	0.018	0.0013				
Phosphorous	H2PO4-						
Selenium	SeO4 2-						
Sulphate	SO4 2-	66	1.3742	47	0.9786	61	1.2701
Sum of anions (meq/L)			**1.727**		**1.160**		**1.392**
cation							
Aluminum	Al 3+	0.0309	0.0034	0.0089	0.0010	0.0087	0.0010
Ammonia	NH4+			0.0053	0.0004		
Barium	Ba 2+	0.00132	0.0000	0.000872	0.0000	0.00119	0.0000
Beryllium	Be 2+						
Cadmium	Cd 2+			0.000154	0.0000	0.000365	0.0000
Calcium	Ca 2+	13.6	0.6786	9.03	0.4506	9.89	0.4935
Cobalt	Co 2+	0.00191	0.0001	0.00613	0.0002	0.0265	0.0009
Copper	Cu 2+	0.00056	0.0000	0.00032	0.0000	0.00093	0.0000
Iron	Fe 2+						
Lead	Pb 2+	0.000055	0.0000			0.000082	0.0000
Lithium	Li +			0.0053	0.0008		
Magnesium	Mg 2+	10	0.8229	6.82	0.5612	7.99	0.6575
Manganese	Mn 2+	0.101	0.0037	0.183	0.0067	0.353	0.0129
Nickel	Ni 2+	0.00307	0.0001	0.0111	0.0004	0.0484	0.0016
Potassium	K+	2.2	0.0563				
Silver	Ag +						
Sodium	Na +						
Strontium	Sr 2+	0.146	0.0033	0.0982	0.0022	0.071	0.0016
Uranium	UO2+	0.000106	0.0000	0.000024	0.0000	0.000015	0.0000
Zinc	Zn 2+	0.0027	0.0001	0.012	0.0004	0.0296	0.0009
Sum of cations (meq/L)			**1.569**		**1.024**		**1.170**

APPENDIX C-1
ION BALANCE SUMMARY--PHASE I KINETIC TESTING

Parameter Measured	Ionic Species	Week 30 mg/L	Week 30 meq/L	Week 40 mg/L	Week 40 meq/L	Week 50 mg/L	Week 50 meq/L
Column No. I-02							
anion							
Alkalinity	HCO3-	0	0.0000	0	0.0000	0	0.0000
Arsenic	As(OH)4-			0.00013	0.0000		
Chloride	Cl-						
Fluoride	F-						
Nitrite/Nitrate	NO3-						
Phosphorous	H2PO4-						
Selenium	SeO4 2-			0.0045	0.0001		
Sulphate	SO4 2-						
Sum of anions (meq/L)			**0.000**		**0.000**		**0.000**
cation							
Aluminum	Al 3+			0.0052	0.0006		
Ammonia	NH4+			0.023	0.0016		
Barium	Ba 2+			0.00226	0.0000		
Beryllium	Be 2+						
Cadmium	Cd 2+			0.000846	0.0000		
Calcium	Ca 2+			0.43	0.0215		
Cobalt	Co 2+			0.363	0.0123		
Copper	Cu 2+			0.00482	0.0002		
Iron	Fe 2+			89.5	3.2052		
Lead	Pb 2+			0.00236	0.0000		
Lithium	Li +						
Magnesium	Mg 2+			1.56	0.1284		
Manganese	Mn 2+			1.59	0.0579		
Nickel	Ni 2+			39.9	1.3595		
Potassium	K+						
Silver	Ag +			0.000019	0.0000		
Sodium	Na +						
Strontium	Sr 2+			0.00492	0.0001		
Uranium	UO2+			0.000013	0.0000		
Zinc	Zn 2+			0.0127	0.0004		
Sum of cations (meq/L)					**4.788**		

APPENDIX C-1
ION BALANCE SUMMARY--PHASE I KINETIC TESTING

Parameter Measured	Ionic Species	Week 30		Week 40		Week 50	
		mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Column No. I-03							
anion							
Alkalinity	HCO3-	40.5	0.8091	27	0.5394	40.5	0.8091
Arsenic	As(OH)4-	0.00039	0.0000	0.00014	0.0000		
Chloride	Cl-	28.8	0.8123	11.3	0.3187	8.36	0.2358
Fluoride	F-						
Nitrite/Nitrate	NO3-	0.011	0.0008				
Phosphorous	H2PO4-						
Selenium	SeO4 2-						
Sulphate	SO4 2-	6	0.1249	4	0.0833		
Sum of anions (meq/L)			**1.747**		**0.941**		**1.045**
cation							
Aluminum	Al 3+	0.0031	0.0003	0.0033	0.0004	0.0067	0.0007
Ammonia	NH4+						
Barium	Ba 2+	0.0421	0.0006	0.0232	0.0003	0.0308	0.0004
Beryllium	Be 2+						
Cadmium	Cd 2+						
Calcium	Ca 2+	12.7	0.6337	7.07	0.3528	7.63	0.3807
Cobalt	Co 2+						
Copper	Cu 2+	0.00034	0.0000	0.0025	0.0001	0.00062	0.0000
Iron	Fe 2+						
Lead	Pb 2+						
Lithium	Li +						
Magnesium	Mg 2+	8.32	0.6846	4.71	0.3876	5.77	0.4748
Manganese	Mn 2+	0.00265	0.0001	0.0027	0.0001	0.00377	0.0001
Nickel	Ni 2+	0.0018	0.0001	0.0031	0.0001	0.00141	0.0000
Potassium	K+	7.9	0.2021	3.6	0.0921	4	0.1023
Silver	Ag +						
Sodium	Na +	3.8	0.1653				
Strontium	Sr 2+	0.0394	0.0009	0.0216	0.0005	0.0223	0.0005
Uranium	UO2+						
Zinc	Zn 2+					0.0014	0.0000
Sum of cations (meq/L)			**1.688**		**0.834**		**0.960**

APPENDIX C-1
ION BALANCE SUMMARY--PHASE I KINETIC TESTING

Parameter Measured	Ionic Species	Week 30		Week 40		Week 50	
		mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Column No. I-04							
anion							
Alkalinity	HCO3-	4	0.0799	1	0.0200	1	0.0200
Arsenic	As(OH)4-	0.00058	0.0000				
Chloride	Cl-	2.93	0.0826	2.18	0.0615		
Fluoride	F-						
Nitrite/Nitrate	NO3-	0.025	0.0018				
Phosphorous	H2PO4-						
Selenium	SeO4 2-	0.0119	0.0003	0.012	0.0003		
Sulphate	SO4 2-	332	6.9125	341	7.0999	460	9.5776
Sum of anions (meq/L)			**7.077**		**7.182**		**9.598**
cation							
Aluminum	Al 3+					0.027	0.0030
Ammonia	NH4+					0.0053	0.0004
Barium	Ba 2+	0.0309	0.0005	0.0314	0.0005	0.0287	0.0004
Beryllium	Be 2+						
Cadmium	Cd 2+	0.0005	0.0000	0.00119	0.0000	0.0048	0.0001
Calcium	Ca 2+	11	0.5489	9.51	0.4746	8.34	0.4162
Cobalt	Co 2+	0.0463	0.0016	0.492	0.0167	0.95	0.0322
Copper	Cu 2+	0.00357	0.0001	0.0133	0.0004	0.0207	0.0007
Iron	Fe 2+			0.066	0.0024	0.65	0.0233
Lead	Pb 2+						
Lithium	Li +						
Magnesium	Mg 2+	75	6.1716	76.2	6.2703	87.8	7.2249
Manganese	Mn 2+	0.549	0.0200	0.85	0.0309	1.56	0.0568
Nickel	Ni 2+	9.98	0.3400	54.7	1.8637	81.7	2.7836
Potassium	K+	16.2	0.4143	12	0.3069	12.2	0.3120
Silver	Ag +	0.00004	0.0000				
Sodium	Na +	5.1	0.2218	3.5	0.1522	3.1	0.1348
Strontium	Sr 2+	0.0626	0.0014	0.0612	0.0014	0.0592	0.0014
Uranium	UO2+						
Zinc	Zn 2+	0.027	0.0008	0.04	0.0012	0.08	0.0024
Sum of cations (meq/L)			**7.721**		**9.121**		**10.992**

APPENDIX C-1
ION BALANCE SUMMARY--PHASE I KINETIC TESTING

Parameter Measured	Ionic Species	Week 30		Week 40		Week 50	
		mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Column No. 1-05							
anion							
Alkalinity	HCO3-	17	0.3396	11	0.2198	9	0.1798
Arsenic	As(OH)4-	0.00255	0.0000	0.00151	0.0000	0.00104	0.0000
Chloride	Cl-						
Fluoride	F-	0.035	0.0018	0.04	0.0021	0.047	0.0025
Nitrite/Nitrate	NO3-	0.013	0.0009				
Phosphorous	H2PO4-						
Selenium	SeO4 2-						
Sulphate	SO4 2-	46	0.9578	23	0.4789	19	0.3956
Sum of anions (meq/L)			**1.300**		**0.701**		**0.578**
cation							
Aluminum	Al 3+	0.0666	0.0074	0.0337	0.0037	0.0159	0.0018
Ammonia	NH4+						
Barium	Ba 2+	0.00169	0.0000	0.000917	0.0000	0.000871	0.0000
Beryllium	Be 2+						
Cadmium	Cd 2+						
Calcium	Ca 2+	15.4	0.7685	8.96	0.4471	7.77	0.3877
Cobalt	Co 2+			0.00011	0.0000	0.00015	0.0000
Copper	Cu 2+	0.00055	0.0000	0.00488	0.0002	0.00082	0.0000
Iron	Fe 2+						
Lead	Pb 2+						
Lithium	Li +						
Magnesium	Mg 2+	3.18	0.2617	2.12	0.1744	2.36	0.1942
Manganese	Mn 2+	0.0164	0.0006	0.023	0.0008	0.0455	0.0017
Nickel	Ni 2+	0.0023	0.0001	0.0032	0.0001	0.00114	0.0000
Potassium	K+						
Silver	Ag +						
Sodium	Na +						
Strontium	Sr 2+	0.101	0.0023	0.066	0.0015	0.0529	0.0012
Uranium	UO2+	0.000161	0.0000	0.000031	0.0000	0.000016	0.0000
Zinc	Zn 2+	0.0029	0.0001	0.0017	0.0001	0.0025	0.0001
Sum of cations (meq/L)			**1.041**		**0.628**		**0.587**

APPENDIX C-1

ION BALANCE SUMMARY--PHASE I KINETIC TESTING

Parameter Measured	Ionic Species	Week 30		Week 40		Week 50	
		mg/L	meq/L	mg/L	meq/L	mg/L	meq/L

Notes:

1. Concentrations listed in mg/L are laboratory-measured values for the parameters listed. Concentrations listed in meq/L are calculated values for the ionic species listed. Refer to the Form Factor Report for the basis of the conversion.

APPENDIX C-1

ION BALANCE SUMMARY--PHASE II KINETIC TESTING

Parameter Measured	Ionic Species	Week 0		Week 1		Week 3		Week 5	
		mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Column No. II-01									
anion									
Alkalinity	HCO3-	62	1.2386	47.5	0.9490	21.5	0.4295	18	0.3596
Arsenic	As(OH)4-	0.022	0.0003	0.0328	0.0004	0.0488	0.0007	0.0707	0.0009
Chloride	Cl-	4.2	0.1185	1.42	0.0401			0.5	0.0141
Fluoride	F-	0.424	0.0223	0.222	0.0117	0.1	0.0053	0.038	0.0020
Nitrite/Nitrate	NO3-	0.06	0.0043	0.054	0.0039				
Phosphorous	H2PO4-								
Selenium	SeO4 2-	0.0028	0.0001	0.0018	0.0000	0.0011	0.0000		
Sulphate	SO4 2-	111	2.3111	57	1.1868	30	0.6246	22	0.4581
Sum of anions (meq/L)			**3.695**		**2.192**		**1.060**		**0.835**
cation									
Aluminum	Al 3+	0.0523	0.0058	0.0481	0.0053	0.11	0.0122	0.121	0.0135
Ammonia	NH4+	0.416	0.0297	0.055	0.0039				
Barium	Ba 2+	0.00464	0.0001	0.00293	0.0000	0.00167	0.0000	0.00103	0.0000
Beryllium	Be 2+								
Cadmium	Cd 2+			0.000051	0.0000				
Calcium	Ca 2+	9.74	0.4860	12.7	0.6337	9.91	0.4945	9.04	0.4511
Cobalt	Co 2+	0.00046	0.0000	0.00045	0.0000	0.00045	0.0000	0.00055	0.0000
Copper	Cu 2+	0.00425	0.0001	0.00454	0.0001	0.00077	0.0000	0.00226	0.0001
Iron	Fe 2+								
Lead	Pb 2+	0.000071	0.0000	0.000121	0.0000	0.000076	0.0000	0.000057	0.0000
Lithium	Li +	0.0117	0.0017	0.0132	0.0019	0.0084	0.0012	0.006	0.0009
Magnesium	Mg 2+	4.53	0.3728	4.98	0.4098	3.41	0.2806	2.99	0.2460
Manganese	Mn 2+	0.0101	0.0004	0.0126	0.0005	0.00995	0.0004	0.0108	0.0004
Nickel	Ni 2+	0.00752	0.0003	0.00271	0.0001	0.00158	0.0001	0.00132	0.0000
Potassium	K+	20	0.5115	11.4	0.2916	4	0.1023	2.1	0.0537
Silver	Ag +			0.000057	0.0000				
Sodium	Na +	48.5	2.1096	16.9	0.7351	3.1	0.1348		
Strontium	Sr 2+	0.196	0.0045	0.196	0.0045	0.12	0.0027	0.118	0.0027
Uranium	UO2+	0.000601	0.0000	0.00107	0.0000	0.00106	0.0000	0.00107	0.0000
Zinc	Zn 2+	0.0014	0.0000	0.0058	0.0002	0.0027	0.0001	0.0023	0.0001
Sum of cations (meq/L)			**3.523**		**2.087**		**1.029**		**0.768**

APPENDIX C-1

ION BALANCE SUMMARY--PHASE II KINETIC TESTING

Parameter Measured	Ionic Species	Week 10		Week 15		Week 20		Week 25	
		mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Column No. II-01									
anion									
Alkalinity	HCO3-	11.5	0.2297	9.5	0.1898	11	0.2198	8.5	0.1698
Arsenic	As(OH)4-	0.0606	0.0008	0.052	0.0007	0.0731	0.0010	0.0516	0.0007
Chloride	Cl-								
Fluoride	F-	0.028	0.0015						
Nitrite/Nitrate	NO3-			0.0355	0.0025	0.0055	0.0004	0.0063	0.0004
Phosphorous	H2PO4-								
Selenium	SeO4 2-								
Sulphate	SO4 2-	18	0.3748	8	0.1666	13	0.2707	6	0.1249
Sum of anions (meq/L)			**0.607**		**0.360**		**0.492**		**0.296**
cation									
Aluminum	Al 3+	0.0664	0.0074	0.0661	0.0073	0.0516	0.0057	0.0582	0.0065
Ammonia	NH4+	0.024	0.0017					0.03	0.0021
Barium	Ba 2+	0.000927	0.0000	0.000631	0.0000	0.000956	0.0000	0.000505	0.0000
Beryllium	Be 2+								
Cadmium	Cd 2+								
Calcium	Ca 2+	7.16	0.3573	4.49	0.2241	8.04	0.4012	3.94	0.1966
Cobalt	Co 2+	0.00093	0.0000	0.00081	0.0000	0.00114	0.0000	0.00085	0.0000
Copper	Cu 2+	0.00132	0.0000	0.00305	0.0001	0.00099	0.0000	0.00041	0.0000
Iron	Fe 2+								
Lead	Pb 2+	0.000092	0.0000						
Lithium	Li +								
Magnesium	Mg 2+	2.28	0.1876	1.48	0.1218	2.57	0.2115	1.41	0.1160
Manganese	Mn 2+	0.0142	0.0005	0.0111	0.0004	0.0214	0.0008	0.102	0.0037
Nickel	Ni 2+	0.00176	0.0001	0.0017	0.0001	0.00177	0.0001	0.00115	0.0000
Potassium	K+								
Silver	Ag +	0.000042	0.0000						
Sodium	Na +								
Strontium	Sr 2+	0.0688	0.0016	0.0393	0.0009	0.0507	0.0012	0.0302	0.0007
Uranium	UO2+	0.000382	0.0000	0.000133	0.0000	0.000212	0.0000	0.000098	0.0000
Zinc	Zn 2+	0.0017	0.0001			0.0023	0.0001		
Sum of cations (meq/L)			**0.556**		**0.355**		**0.621**		**0.326**

APPENDIX C-1

ION BALANCE SUMMARY--PHASE II KINETIC TESTING

Parameter Measured	Ionic Species	Week 0		Week 1		Week 3		Week 5	
		mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Column No. II-02									
anion									
Alkalinity	HCO3-	81.5	1.6282	62	1.2386	40.5	0.8091	36	0.7192
Arsenic	As(OH)4-	0.00596	0.0001	0.0062	0.0001	0.00299	0.0000	0.00273	0.0000
Chloride	Cl-	4.52	0.1275	2.75	0.0776	0.88	0.0248		
Fluoride	F-	0.563	0.0296	0.37	0.0195	0.116	0.0061	0.044	0.0023
Nitrite/Nitrate	NO3-	0.079	0.0056	0.056	0.0040				
Phosphorous	H2PO4-								
Selenium	SeO4 2-	0.0042	0.0001	0.0043	0.0001	0.0022	0.0001	0.0015	0.0000
Sulphate	SO4 2-	73	1.5199	38	0.7912	17	0.3540	17	0.3540
Sum of anions (meq/L)			**3.311**		**2.131**		**1.194**		**1.076**
cation									
Aluminum	Al 3+	0.158	0.0176	0.172	0.0191	0.112	0.0125	0.136	0.0151
Ammonia	NH4+	0.533	0.0381	0.218	0.0156	0.085	0.0061	0.021	0.0015
Barium	Ba 2+	0.00125	0.0000	0.000863	0.0000	0.0011	0.0000	0.00112	0.0000
Beryllium	Be 2+								
Cadmium	Cd 2+								
Calcium	Ca 2+	2.4	0.1198	2.97	0.1482	7.03	0.3508	9.18	0.4581
Cobalt	Co 2+								
Copper	Cu 2+	0.00172	0.0001	0.00314	0.0001	0.00043	0.0000	0.00082	0.0000
Iron	Fe 2+								
Lead	Pb 2+	0.000222	0.0000	0.000123	0.0000			0.000076	0.0000
Lithium	Li +			0.0055	0.0008	0.0081	0.0012	0.0081	0.0012
Magnesium	Mg 2+	1.25	0.1029	1.46	0.1201	2.95	0.2427	3.74	0.3078
Manganese	Mn 2+	0.00404	0.0001	0.00117	0.0000	0.00263	0.0001	0.00415	0.0002
Nickel	Ni 2+	0.00063	0.0000			0.00056	0.0000	0.00093	0.0000
Potassium	K+	17	0.4348	13.8	0.3530	10.1	0.2583	6.1	0.1560
Silver	Ag +	0.000046	0.0000	0.000013	0.0000				
Sodium	Na +	60	2.6099	31.8	1.3832	7.8	0.3393	4	0.1740
Strontium	Sr 2+	0.0442	0.0010	0.0553	0.0013	0.103	0.0024	0.149	0.0034
Uranium	UO2+	0.0014	0.0000	0.000665	0.0000	0.000434	0.0000	0.000425	0.0000
Zinc	Zn 2+	0.0096	0.0003	0.0014	0.0000	0.0011	0.0000		
Sum of cations (meq/L)			**3.324**		**2.041**		**1.213**		**1.117**

APPENDIX C-1

ION BALANCE SUMMARY--PHASE II KINETIC TESTING

Parameter Measured	Ionic Species	Week 10		Week 15		Week 20		Week 25	
		mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Column No. II-02									
anion									
Alkalinity	HCO3-	30	0.5993	28	0.5594	26.5	0.5294	25.5	0.5094
Arsenic	As(OH)4-	0.00208	0.0000	0.00106	0.0000	0.00123	0.0000	0.00155	0.0000
Chloride	Cl-	0.53	0.0149						
Fluoride	F-	0.038	0.0020	0.022	0.0012				
Nitrite/Nitrate	NO3-			0.031	0.0022	0.0054	0.0004	0.005	0.0004
Phosphorous	H2PO4-								
Selenium	SeO4 2-								
Sulphate	SO4 2-	17	0.3540	15	0.3123	29	0.6038	15	0.3123
Sum of anions (meq/L)			**0.970**		**0.875**		**1.134**		**0.822**
cation									
Aluminum	Al 3+	0.137	0.0152	0.117	0.0130	0.118	0.0131	0.103	0.0115
Ammonia	NH4+								
Barium	Ba 2+	0.00101	0.0000	0.000823	0.0000	0.00107	0.0000	0.000837	0.0000
Beryllium	Be 2+								
Cadmium	Cd 2+							0.00005	0.0000
Calcium	Ca 2+	10.3	0.5140	11.5	0.5739	15.9	0.7934	12.8	0.6387
Cobalt	Co 2+								
Copper	Cu 2+	0.00088	0.0000	0.00071	0.0000	0.00254	0.0001	0.00017	0.0000
Iron	Fe 2+								
Lead	Pb 2+	0.000052	0.0000						
Lithium	Li +	0.0062	0.0009	0.0057	0.0008	0.0055	0.0008		
Magnesium	Mg 2+	3.64	0.2995	3.31	0.2724	3.64	0.2995	2.18	0.1794
Manganese	Mn 2+	0.00533	0.0002	0.00587	0.0002	0.00719	0.0003	0.00827	0.0003
Nickel	Ni 2+	0.00062	0.0000	0.00089	0.0000	0.00106	0.0000	0.00081	0.0000
Potassium	K+	3.2	0.0818	2.2	0.0563	2.3	0.0588		
Silver	Ag +	0.000062	0.0000						
Sodium	Na +								
Strontium	Sr 2+	0.118	0.0027	0.106	0.0024	0.132	0.0030	0.0924	0.0021
Uranium	UO2+	0.000369	0.0000	0.000341	0.0000	0.000448	0.0000	0.000168	0.0000
Zinc	Zn 2+					0.0015	0.0000	0.0012	0.0000
Sum of cations (meq/L)			**0.914**		**0.919**		**1.169**		**0.832**

APPENDIX C-1

ION BALANCE SUMMARY--PHASE II KINETIC TESTING

Parameter Measured	Ionic Species	Week 0		Week 1		Week 3		Week 5	
		mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Column No. H-03									
anion									
Alkalinity	HCO3-	78	1.5583	80	1.5982	82	1.6382	64	1.2786
Arsenic	As(OH)4-	0.00268	0.0000	0.00186	0.0000	0.00084	0.0000	0.00058	0.0000
Chloride	Cl-	43.5	1.2270	16.8	0.4739	3.46	0.0976	2	0.0564
Fluoride	F-			0.024	0.0013				
Nitrite/Nitrate	NO3-	0.184	0.0131					0.066	0.0047
Phosphorous	H2PO4-								
Selenium	SeO4 2-								
Sulphate	SO4 2-	26	0.5413	15	0.3123				
Sum of anions (meq/L)			**3.340**		**2.386**		**1.736**		**1.340**
cation									
Aluminum	Al 3+	0.0114	0.0013	0.011	0.0012	0.0078	0.0009	0.0072	0.0008
Ammonia	NH4+	0.294	0.0210						
Barium	Ba 2+	0.00245	0.0000	0.00201	0.0000	0.00491	0.0001	0.0046	0.0001
Beryllium	Be 2+								
Cadmium	Cd 2+								
Calcium	Ca 2+	2.3	0.1148	2.48	0.1238	3.58	0.1786	4.15	0.2071
Cobalt	Co 2+								
Copper	Cu 2+	0.00302	0.0001	0.00229	0.0001	0.0009	0.0000	0.0013	0.0000
Iron	Fe 2+								
Lead	Pb 2+	0.000075	0.0000	0.000086	0.0000				
Lithium	Li +								
Magnesium	Mg 2+	6.68	0.5497	6.19	0.5094	7.64	0.6287	6.38	0.5250
Manganese	Mn 2+	0.000761	0.0000	0.00045	0.0000	0.00058	0.0000	0.000478	0.0000
Nickel	Ni 2+	0.0018	0.0001	0.00093	0.0000	0.00086	0.0000	0.00085	0.0000
Potassium	K+	19.7	0.5039	19.5	0.4987	21.7	0.5550	15.3	0.3913
Silver	Ag +	0.000143	0.0000	0.000049	0.0000				
Sodium	Na +	51.7	2.2488	30.2	1.3136	10.2	0.4437	6.1	0.2653
Strontium	Sr 2+	0.0118	0.0003	0.0112	0.0003	0.0162	0.0004	0.0175	0.0004
Uranium	UO2+								
Zinc	Zn 2+	0.0019	0.0001	0.0031	0.0001	0.0019	0.0001		
Sum of cations (meq/L)			**3.440**		**2.447**		**1.807**		**1.390**

APPENDIX C-1

ION BALANCE SUMMARY--PHASE II KINETIC TESTING

Parameter Measured	Ionic Species	Week 10		Week 15		Week 20		Week 25	
		mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Column No. II-03									
anion									
Alkalinity	HCO3-	48	0.9589	45.5	0.9090	38.5	0.7692	33	0.6593
Arsenic	As(OH)4-	0.00088	0.0000	0.00033	0.0000	0.0004	0.0000	0.00038	0.0000
Chloride	Cl-	2.21	0.0623			2.85	0.0804	1.58	0.0446
Fluoride	F-								
Nitrite/Nitrate	NO3-			0.0105	0.0007				
Phosphorous	H2PO4-								
Selenium	SeO4 2-								
Sulphate	SO4 2-					7	0.1457	8	0.1666
Sum of anions (meq/L)			**1.021**		**0.910**		**0.995**		**0.870**
cation									
Aluminum	Al 3+	0.0098	0.0011	0.0066	0.0007	0.0093	0.0010	0.0102	0.0011
Ammonia	NH4+								
Barium	Ba 2+	0.00489	0.0001	0.00564	0.0001	0.00656	0.0001	0.00648	0.0001
Beryllium	Be 2+								
Cadmium	Cd 2+								
Calcium	Ca 2+	4.07	0.2031	4.7	0.2345	4.65	0.2320	4.73	0.2360
Cobalt	Co 2+	0.00013	0.0000						
Copper	Cu 2+	0.00165	0.0001	0.00263	0.0001	0.00108	0.0000	0.00022	0.0000
Iron	Fe 2+								
Lead	Pb 2+	0.000095	0.0000						
Lithium	Li +								
Magnesium	Mg 2+	4.7	0.3868	4.73	0.3892	5.09	0.4188	4.29	0.3530
Manganese	Mn 2+	0.00193	0.0001	0.000159	0.0000	0.000928	0.0000	0.000325	0.0000
Nickel	Ni 2+	0.0006	0.0000	0.00057	0.0000	0.00074	0.0000		
Potassium	K+	11.3	0.2890	10.2	0.2609	11.4	0.2916	8.6	0.2200
Silver	Ag +	0.000212	0.0000						
Sodium	Na +	3.4	0.1479	2.5	0.1087	4.3	0.1870	2.7	0.1174
Strontium	Sr 2+	0.0139	0.0003	0.0139	0.0003	0.0132	0.0003	0.0125	0.0003
Uranium	UO2+	0.000011	0.0000						
Zinc	Zn 2+					0.001	0.0000		
Sum of cations (meq/L)			**1.028**		**0.995**		**1.131**		**0.928**

APPENDIX C-1

ION BALANCE SUMMARY--PHASE II KINETIC TESTING

Parameter Measured	Ionic Species	Week 0		Week 1		Week 3		Week 5	
		mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Column No. II-04									
anion									
Alkalinity	HCO3-	31.5	0.6293	31	0.6193	11.5	0.2297	6	0.1199
Arsenic	As(OH)4-	0.00574	0.0001	0.0135	0.0002	0.00658	0.0001	0.00595	0.0001
Chloride	Cl-	2.61	0.0736	3.44	0.0970	0.63	0.0178		
Fluoride	F-	0.52	0.0274	0.613	0.0323	0.231	0.0122	0.109	0.0057
Nitrite/Nitrate	NO3-	0.173	0.0123	0.086	0.0061				
Phosphorous	H2PO4-								
Selenium	SeO4 2-	0.0029	0.0001	0.0022	0.0001	0.0016	0.0000	0.001	0.0000
Sulphate	SO4 2-	415	8.6406	198	4.1225	168	3.4979	95	1.9780
Sum of anions (meq/L)			**9.383**		**4.878**		**3.758**		**2.104**
cation									
Aluminum	Al 3+	0.0379	0.0042	0.217	0.0241	0.0194	0.0022	0.0115	0.0013
Ammonia	NH4+	0.612	0.0437	0.148	0.0106	0.148	0.0106	0.069	0.0049
Barium	Ba 2+	0.0114	0.0002	0.0041	0.0001	0.00464	0.0001	0.00358	0.0001
Beryllium	Be 2+								
Cadmium	Cd 2+	0.000196	0.0000	0.000057	0.0000	0.000086	0.0000	0.000101	0.0000
Calcium	Ca 2+	28.5	1.4222	8.16	0.4072	15.5	0.7735	11	0.5489
Cobalt	Co 2+	0.00204	0.0001	0.00026	0.0000	0.00226	0.0001	0.00441	0.0001
Copper	Cu 2+	0.0127	0.0004	0.00784	0.0002	0.00274	0.0001	0.0103	0.0003
Iron	Fe 2+			0.035	0.0013				
Lead	Pb 2+	0.000075	0.0000	0.000217	0.0000	0.000101	0.0000	0.000095	0.0000
Lithium	Li +	0.0467	0.0067	0.0165	0.0024	0.0419	0.0060	0.0327	0.0047
Magnesium	Mg 2+	13.6	1.1191	4.38	0.3604	9.02	0.7422	6.66	0.5480
Manganese	Mn 2+	0.0557	0.0020	0.00844	0.0003	0.0486	0.0018	0.0594	0.0022
Nickel	Ni 2+	0.0497	0.0017	0.00311	0.0001	0.0171	0.0006	0.0247	0.0008
Potassium	K+	32.6	0.8338	12.3	0.3146	15.3	0.3913	11.6	0.2967
Silver	Ag +	0.000026	0.0000	0.000015	0.0000				
Sodium	Na +	126	5.4807	76.6	3.3319	33.5	1.4572	15.2	0.6612
Strontium	Sr 2+	0.683	0.0156	0.207	0.0047	0.33	0.0075	0.299	0.0068
Uranium	UO2+	0.000284	0.0000	0.000383	0.0000	0.000106	0.0000	0.000033	0.0000
Zinc	Zn 2+	0.0068	0.0002	0.003	0.0001	0.0031	0.0001	0.0048	0.0001
Sum of cations (meq/L)			**8.931**		**4.458**		**3.393**		**2.076**