APPENDIX E

Recent Waste Rock Analytical Data

MWMP Tests for Bida Pits

Station Name		BIDA	Mooney-Bida Waste- Intrusive	Mooney-Bida Waste- Intrusive	Mooney-Bida Waste- Sedimentary	Mooney-Bida Waste- Sedimentary	Mooney-Bida Waste- Intrusive	Mooney-Bida Waste- Sedimentary	Bida 2 Waste Facility	Bida 2 Waste Facility	Bida 3 Waste Facility	Bida 3 Waste Facility
Stn.Code		BIDA	BWF_Int_OX	BWF_Int_OX	BWF_Sed_OX	BWF_Sed_OX	BWF_Int_OX	BWF_Sed_OX	B2WF_Int_OX	B2WF_Sed_OX	B3WF_Int_OX	B3WF_Sed_OX
Sampling Session		3rd Qtr. 2005	3rd Qtr. 2006	4th Qtr. 2006	3rd Qtr. 2006	4th Qtr. 2006	1st Qtr. 2007	1st Qtr. 2007	4th Qtr. 2008	4th Qtr. 2008	4th Qtr. 2008	4th Qtr. 2008
Collect Date/Time		9/30/05	10/3/06	12/28/06	10/3/06	12/28/06	3/16/07	3/16/07	12/3/08	12/3/08	12/3/08	12/3/08
Lab Name		ELI	ELI	ELI	ELI	ELI	SVL	SVL	SVL	SVL	SVL	SVL
Sampled By		KN	Nick	Nick	Nick	Nick	Ore Control	Ore Control	Nick	Nick	Nick	Nick
Lab Test Date	Units	38625	38993	39079	38993	39079	39157	39157	39785	39785	39785	39785
Lab Reference Number		C05100169-002A	C06100322-004	E556614	C06100322-005	E556615	E565819	E565823	W8L0154-05	W8L0154-06	W8L0154-03	W8L0154-04
MWMP Extraction												
Alkalinity, Total	mg/L as CaCO3	60	36	58.6	58	77.8	20.9	26.2	38	56.8	15.9	84.1
Alkalinity, Bicarbonate	mg/L as CaCO3	73	44	58.6	69	77.8	20.9	26.2	38	56.8	15.9	84.1
Aluminum	mg/L	0.04	0.07	<0.080	0.18	<0.080	<0.080	<0.080	7.06	1.69	<0.080	0.537
Antimony	mg/L	0.01	0.002	0.0144	0.014	0.0116	<0.0030	<0.0030	0.263	0.0327	0.0441	0.00413
Arsenic	mg/L	0.043	0.017	0.071	0.004	0.032	0.0135	0.0144	0.0289	0.00606	0.00451	0.0119
Barium	mg/L	0.088	0.199	0.192	0.1	0.182	0.111	0.0974	0.387	0.142	0.0414	0.185
Beryllium	mg/L	ND	ND	<0.0020	ND	<0.0020	<0.0020	<0.0020	<0.00200	<0.00200	<0.00200	<0.00200
Bismuth	mg/L	ND		<0.06		<0.06						
Boron	mg/L	0.12	0.3	0.05	ND	0.06	0.19	0.22	0.159	0.098	0.073	0.109
Cadmium	mg/L	ND	0.003	<0.0020	ND	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	mg/L											
Chloride	mg/L	6	311	2.35	9	3.52	0.49	0.48	1.46	1.79	1.05	7.18
Chromium	mg/L	ND	ND	<0.0060	0.003	0.01	<0.0060	<0.0060	0.0076	<0.0060	<0.0060	<0.0060
Cobalt	mg/L	ND		<0.006		<0.006						
Copper	mg/L	0.006	1.61	<0.010	0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cyanide (WAD)	mg/L	ND	ND	<0.010	ND	<0.010	<0.010	<0.010				
Fluoride	mg/L	0.8	0.3	0.43	0.4	0.41	0.25	0.47	0.754	0.56	0.165	0.639
Gallium	mg/L	0.003		<0.020		<0.020						
Iron	mg/L	ND	0.04	<0.06	ND	<0.06	<0.06	<0.06	2.23	0.297	<0.060	0.132
Lead	mg/L	ND	0.347	<0.0075	0.003	<0.0075	<0.0075	<0.0075	<0.00300	<0.00300	<0.00300	<0.00300
Lithium	mg/L	0.008		<0.020		<0.020						
Magnesium	mg/L	2.9	68	2.84	2	4.33	0.74	1.01	3.4	5.27	5.85	2.73
Manganese	mg/L	ND	0.059	<0.004	0.004	<0.004	<0.004	<0.004	0.0298	0.0218	0.0319	<0.0040
Mercury	mg/L	ND	ND	<0.00020	0.0228	0.00189	<0.00020	<0.00020	0.079	0.092	0.00962	<0.00020
Molybdenum	mg/L	0.004		<0.008		0.016						
Nickel	mg/L	ND	0.104	<0.010	ND	<0.010	<0.010	<0.010	0.01	<0.010	<0.010	<0.010
Nitrate + Nitrite as N	mg/L											
Nitrate as N	mg/L	2.6	43.6	0.439	0.6	0.92	0.289	0.7				
Nitrite as N	mg/L								1.25	7.28	4.22	4.75
pH (s.u.)	SU	8.22	7.56	7.34	8.36	7.56	6.96	6.69	7.68	7.87	7.08	7.98
Phosphorus	mg/L	ND		<0.05		<0.05						
Potassium	mg/L	5.2	23	11.6	3	4.37	0.59	1.7	14	18.1	25.4	4.01
Scandium	mg/L											
Selenium	mg/L	ND	0.005	<0.04	ND	<0.04	<0.0030	<0.0030	<0.00300	<0.00300	<0.00300	<0.00300
Silver	mg/L	0.003	ND	<0.0050	ND	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	22.5	17	4.37	5	10.2	3.92	4.86	9.36	6.59	8.26	19.7
Strontium	mg/L	0.093		0.085		0.094						
Sulfate	mg/L	43	53	20.7	36	21.7	4.37	11.5	34.2	38.4	127	23.7
Thallium	mg/L	ND	0.0054	<0.0020	ND	0.0022	<0.00200	<0.00200	0.00392	0.00349	0.00721	<0.00100
Tin	mg/L	0.001		<0.05		<0.05						
Titanium	mg/L	ND		<0.0050		<0.0050						
Total Dissolved Solids	mg/L	1.07	838		121							
Vanadium	mg/L	ND		<0.0050		<0.0050						
Zinc	mg/L	0.06	12.7	<0.010	0.01	<0.010	<0.010	<0.010	0.023	0.0132	<0.0100	<0.0100
Acid Base Accounting												
Paste pH (s.u.)												
AGP (tons CaCO3/kton)		17	<0.3	4.1	<0.3	<0.3	16.3	2.8	1.31	1.28	12.3	0
ANP (tons CaCO3/kton)		1	5	<0.3	2	517	1.5	1.5	2	2	1.5	627
NNP (tons CaCO3/kton)		-16	-5	-4.1	-89	517	-14.7	-1.3	0.69	0.72	-10.8	627

MWMP Tests for Top Pit

Sample Location		Top Pit	Top Pit	Top Pit	Top Pit	Top Pit	Top Pit	Top Pit	Top Pit	Top Pit	Top Pit	Top Pit	Top Pit
Reporting Period		1992	2nd Quarter 1995	3rd Quarter 1995	4th Quarter 1995	1st Quarter 1996	2nd Quarter 1996	3rd Quarter 1996	Fouth Quarter 1996	1st Quarter 1997	4th Quarter 1997	1st Quarter 1998	3rd Quarter 1998
Sample Date		1/9/1991	6/14/1995	8/31/1995	12/12/1995	1/4/1996	6/4/1996	8/7/1996	12-04-96	Mar-97	11-18-97	03-09-98	10-09-98
Received Date		1/3/1991	6/14/1995	--	--	--	--	--	--	--	--	--	--
Lab Name		Monitor	WestChem	--	--	West Chem	West Chem	Chemtech	Barringer	AAL	Barringer	Barringer	Barringer
Report Date		2/11/1991	7/10/1995	--	--	7/10/1996	--	--	--	--	--	--	--
Lab ID		1706	95-A001261	95-A002411	95-A003470	96-A001424	--	--	964104-7	--	974205-2	C0042	983449-1
Job ID	Units	--	--	--	--	--	--	--	964104E	EV2816	974205E	981611e	983449E
Source		--	--	--	--	Top	Top	Top	Top	Top	Top	Top	Top
MWMP Extraction													
Alkalinity, Total	mg/L as CaCO3	58	78.4	132	79.6	79	88	62	--	59	47	54	60
Alkalinity, Bicarbonate	mg/L as CaCO3	--	78.4	132	79.6	--	88	--	--	--	--	--	--
Aluminum	mg/L	<0.05	<0.2	0.265	0.147	0.04	0.01	<0.1	<0.05	0.093	<0.05	<0.02	<0.02
Antimony	mg/L	<0.05	<0.2	0.047	<0.02	<0.08	0.029	0.024	<0.006	0.012	<0.003	0.012	0.005
Arsenic	mg/L	0.047	<0.1	<0.1	0.055	0.035	0.091	0.27	0.28	0.094	0.048	0.169	0.11
Barium	mg/L	0.269	0.0	0.069	0.1	0.04	0.05	0.2	0.36	0.131	0.29	0.14	0.25
Beryllium	mg/L	<0.001	<0.005	<0.005	<0.002	<0.001	<0.0002	<0.1	<0.004	<0.002	<0.002	<0.002	<0.002
Bismuth	mg/L	<0.1	<0.035	<0.035	<0.011	<0.2	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05
Boron	mg/L	0.168	--	--	--	--	--	--	--	--	--	--	0.2
Cadmium	mg/L	<0.007	<0.005	<0.005	<0.002	<0.005	<0.001	<0.001	<0.005	<0.002	<0.002	<0.002	<0.002
Calcium	mg/L	18.1	21.4	27.5	24.4	17.5	20	22	21.1	17.6	21.6	18.4	16.7
Chloride	mg/L	<0.01	<1.5	15.7	2.59	2	<1	2	<0.01	3.74	13	<4	5
Chromium	mg/L	<0.01	<0.01	<0.01	<0.003	<0.005	0.001	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	mg/L	<0.007	<0.005	<0.005	0.001	<0.01	<0.002	<0.1	<0.01	<0.02	<0.01	<0.01	<0.01
Copper	mg/L	<0.007	0.006	0.015	0.028	0.1	0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.02
Cyanide (WAD)	mg/L	0.021	--	<0.005	--	--	--	--	0.01	<0.005	0.01	0.01	<0.01
Fluoride	mg/L	0.833	0.729	1.18	0.9	<0.5	<0.5	0.2	0.4	0.72	0.5	0.8	1
Gallium	mg/L	<0.02	<0.1	<0.1	<0.006	<0.05	<0.01	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05
Iron	mg/L	0.011	0.2	<0.05	0.229	0.03	0.01	<0.1	<0.05	0.026	<0.1	<0.05	<0.05
Lead	mg/L	0.086	<0.03	<0.03	<0.01	<0.005	<0.005	<0.005	239.2	0.013	<0.003	<0.002	<0.002
Lithium	mg/L	0.014	<0.005	0.016	0.009	<0.01	0.006	<0.1	<0.04	<0.05	<0.02	<0.01	<0.01
Magnesium	mg/L	1.2	2.49	12	7.01	10.5	7.55	9	3.30	4.22	4.60	3.74	2.97
Manganese	mg/L	<0.003	0.006	<0.005	0.015	0.01	<0.002	<0.1	<0.005	<0.01	<0.005	<0.005	<0.005
Mercury	mg/L	<0.0005	0.0016	0.0062	0.037	0.02	0.027	0.0012	0.0252	<0.0002	0.0037	0.03	0.0033
Molybdenum	mg/L	0.028	0.021	0.022	0.025	<0.02	0.009	<0.1	0.010	0.019	0.010	<0.01	0.030
Nickel	mg/L	<0.015	<0.015	<0.015	<0.006	<0.01	<0.002	<0.1	<0.04	<0.02	<0.04	<0.04	<0.04
Nitrate + Nitrite as N	mg/L	--	2.189	5.07	3.75	6.5	1.3	6.39	4.7	6.7	4.2	4.9	1.71
Nitrate as N	mg/L	2.17	--	--	--	--	--	--	--	--	--	--	--
Nitrite as N	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
pH (s.u.)	SU	7.8	8.05	8.22	8.13	8.23	8.06	8.43	7.86	7.42	7.64	7.24	7.5
Phosphorous	mg/L	0.002	0.053	0.097	0.068	0.05	0.05	<0.1	<0.1	<0.02	<0.05	<0.05	<0.05
Potassium	mg/L	5.67	2.32	2.16	3.28	2.5	2.95	4	<5	2.66	<5	3	2
Scandium	mg/L	<0.02	<0.01	<0.01	<0.001	<0.002	<0.005	<0.1	<0.002	<0.05	<0.005	<0.005	<0.005
Selenium	mg/L	<0.005	<0.1	<0.1	<0.04	<0.02	<0.002	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
Silver	mg/L	<0.02	<0.01	<0.01	<0.01	<0.005	<0.002	<0.002	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium	mg/L	9.75	5.77	49	12.5	6.4	6.5	5.7	7	4.61	8	5	15
Strontium	mg/L	0.048	0.039	0.095	0.049	0.04	0.042	<0.1	0.051	0.062	0.052	0.08	0.059
Sulfate	mg/L	1.4	3.76	55.7	15.5	6	6	13	7	6.39	9	<5	8
Thallium	mg/L	<0.15	<0.1	<0.002	<0.002	0.001	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001
Thorium	mg/L	<0.05	--	--	--	--	--	--	--	--	--	--	--
Tin	mg/L	<1.30	<0.1	<0.1	<0.1	<0.1	<0.02	<0.1	<0.03	0.200	<0.03	<0.03	<0.03
Titanium	mg/L	<0.001	<0.005	<0.005	<0.005	<0.01	<0.002	<0.1	<0.01	<0.05	<0.01	<0.01	<0.01
Total Dissolved Solids	mg/L	117	118	307	155	132	50	154	80	100	100	122	118
Uranium	mg/L	2	--	--	--	--	--	--	--	--	--	--	--
Vanadium	mg/L	<0.007	<0.007	0.009	<0.007	<0.01	0.002	<0.1	<0.01	<0.05	<0.01	<0.01	<0.01
Zinc	mg/L	0.021	<0.005	<0.005	0.0	<0.01	<0.002	<0.1	<0.02	<0.02	0.02	<0.02	0.02
Acid Base Accounting													
Paste pH (s.u.)		--	8.35	8.76	8.77	--	9.27	8.87	--	--	--	--	--
AGP (tons CaCO3/kTon material)		0.51	2.03	1.94	1.31	--	1.62	1.94	2.5	0.31	1.1	2.4	2.5
ANP (tons CaCO3/kTon material)		25.3	427	429	434	--	504	631	98	432	171	84	76
NNP (tons CaCO3/kTon material)		24.8	425.0	427.1	432.7	--	502.4	629.1	95.5	432	169.9	81.6	73.5
Total Sulfur (wt%)		--	--	--	--	--	--	--	--	0.04	--	0.077	--

MWMP Tests for Top Pit (continued)

Sample Location	Top Pit	Top Pit	Top Pit	Top Pit	Top Pit	Top Pit	Top Pit	Top Pit	Top Pit	Top Pit	Top Pit	Top Pit	Top Pit
Reporting Period	1st Quarter 1999	2nd Quarter 1999	3rd Quarter 1999	4th Quarter 1999	1st Quarter 2000	2nd Quarter 2000	3rd Quarter 2000	4th Quarter 2000	1st Quarter 2001	2nd Quarter 2001	3rd Quarter 2001	4th Quarter 2001	1st Quarter 2001
Sample Date	3/2/1999	6/22/1999	8/31/1999	11/1/1999	--	6/4/2000	8/16/2000	11/21/2000	3/1/2001	6/20/2001	9/27/2001	12/31/2001	4/3/2002
Received Date	--	--	--	--	3/6/2000	6/7/2000	8/21/2000	11/27/2000	3/5/2001	6/25/2001	10/2/2001	1/4/2002	4/8/2002
Lab Name	Barringer	Barringer	Barringer	Barringer	SVL	SVL	SVL	SVL	SVL	SVL	SVL	SVL	SVL
Report Date	--	--	--	--	3/17/2000	6/21/2000	9/5/2000	12/11/2000	3/20/2001	7/10/2001	10/16/2001	1/21/2002	4/22/2002
Lab ID	C0042	992239-1	C0042	C0042	E228257	E234753	E241837	249831	E256917	E268383	278855	287514	E294349
Job ID	991544-14	992239E	9909095-1A	9912090	93799	94585	95320	96244	97072	98342	99473	100468	101268
Source	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top
MWMP Extraction													
Alkalinity, Total	25	21	21	34	39.1	32.1	24.4	41.2	50.9	58.7	58.3	100	72
Alkalinity, Bicarbonate	--	--	--	--	39.1	32.1	24.4	41.2	50.9	58.7	58.3	100	72
Aluminum	0.04	0.07	0.10	0.04	0.033	0.058	<0.024	<0.02	<0.02	<0.02	<0.02	0.02	<0.02
Antimony	<0.003	<0.003	<0.003	0.00	<0.002	0.004	<0.002	0.023	0.009	0.029	0.007	0.049	0.009
Arsenic	0.007	0.009	0.084	#N/A	0.022	0.055	<0.04	0.16	0.1	0.1	0.32	0.06	0.26
Barium	0.02	<0.02	0.007	0.430	0.061	0.074	0.025	0.099	0.113	0.221	0.2	0.259	0.212
Beryllium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Bismuth	<0.05	<0.05	<0.05	<0.05	0.024	<0.024	<0.044	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Boron	--	<0.1	--	--	0.066	0.045	0.054	0.13	0.1	0.09	0.12	0.1	0.13
Cadmium	<0.002	<0.002	<0.002	<0.002	<0.0024	<0.0024	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Calcium	8.3	6.2	1.60	8.50	12.2	11.1	7.51	20.9	16.7	26.8	18.8	42.9	23.5
Chloride	< 4	<4	< 4	< 4	0.4	1.6	0.8	3.8	2.5	6.5	4.1	1.9	4.4
Chromium	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.006	<0.006	<0.006	0.007	<0.006	<0.006	<0.006
Cobalt	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Copper	<0.01	<0.01	<0.01	<0.01	<0.003	<0.003	<0.003	0.012	<0.003	<0.003	<0.003	<0.003	<0.003
Cyanide (WAD)	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
Fluoride	<0.1	<0.1	0.25	0.17	<0.1	0.2	<0.1	0.4	0.3	0.4	0.4	0.2	0.2
Gallium	<0.05	<0.05	<0.05	<0.05	<0.022	<0.022	<0.022	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Iron	<0.05	<0.1	<0.05	<0.05	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead	0.003	0.003	0.003	0.003	<0.002	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lithium	<0.01	<0.01	<0.01	<0.01	0.004	<0.003	<0.004	0.005	0.006	0.016	0.006	0.033	0.008
Magnesium	0.40	0.38	0.40	0.82	1.2	1.88	0.94	4.96	2.85	3.5	3.17	5.47	4.93
Manganese	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.007	<0.002
Mercury	0.0006	<0.0002	0.0039	0.0012	0.0008	0.0058	0.002	0.0005	0.002	<0.0002	0.014	0.0005	0.0142
Molybdenum	<0.01	<0.01	<0.01	<0.01	<0.008	0.009	<0.008	0.107	0.014	0.044	0.017	0.061	0.015
Nickel	<0.04	<0.04	<0.04	<0.04	<0.023	<0.023	<0.024	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01
Nitrate + Nitrite as N	1.21	0.31	0.29	0.20	--	--	0.46	--	1.2	4.12	2.06	1	1.7
Nitrate as N	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as N	--	--	--	--	--	--	--	--	--	--	--	--	--
pH (s.u.)	7.77	6.82	7.34	7.37	7.75	7.98	7.73	6.87	7.78	8.08	7.94	8.04	8.04
Phosphorous	<0.05	<0.05	0.08	0.11	<0.074	<0.074	<0.13	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Potassium	< 1	<1	< 1	< 1	<1.7	<1.7	<1.7	2.8	2.3	6.2	3.2	5.6	3.3
Scandium	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Selenium	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Silver	<0.01	<0.01	<0.01	<0.01	<0.006	<0.006	<0.007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Sodium	< 5	2	3.80	5.10	1.77	1.27	1.62	5.6	3.7	4.2	4.9	6.4	4.9
Strontium	0.009	0.007	0.01	0.03	0.026	0.043	0.013	0.064	0.053	0.104	0.054	0.16	0.054
Sulfate	< 5	<5	24.00	< 5	0.8	3.4	0.5	41	6.5	15.4	4.1	37.2	14.3
Thallium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001
Thorium	--	--	--	--	--	--	--	--	--	--	--	--	--
Tin	<0.05	<0.03	0.01	<0.05	<0.05	<0.05	<0.06	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Titanium	<0.01	<0.01	<0.01	<0.01	<0.007	<0.007	<0.007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Dissolved Solids	20	21	48	59	34	44	37	111	88	151	100	188	120
Uranium	--	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	<0.02	<0.02	<0.02	<0.02	<0.003	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	0.005	0.006
Acid Base Accounting													
Paste pH (s.u.)	--	--	--	--	--	--	--	--	--	--	--	--	--
AGP (tons CaCO3/kTon material)	0.9	--	0.90	0.90	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.3	12.8	0.6
ANP (tons CaCO3/kTon material)	34	--	14	43	748	443	818	471	553	505	323	359	190
NNP (tons CaCO3/kTon material)	33.1	--	13.1	42.1	748	443	818	471	553	505	323	346	190
Total Sulfur (wt%)	--	--	--	--	--	--	--	--	--	--	--	--	--

Baseline Geochemical Assessment

Bald Mountan North Area Expansion

MWMP Tests for Top Pit (continued)

Sample Location	Top Pit	Top Pit	Top Pit	Top Pit	Top Pit	Top Pit
Reporting Period	2nd Quarter 2002	3rd Quarter 2002	4th Quarter 2002	1st Quarter 2003	2nd Quarter 2003	3rd Quarter 2003
Sample Date	7/18/2002	9/17/2002	12/23/2002	3/31/2003	6/26/2003	9/30/2003
Received Date	7/24/2002	9/20/2002	12/26/2002	3/31/2003	--	10/7/2003
Lab Name	SVL	SVL	SVL	AAL	SEM	SEM
Report Date	8/8/2002	10/3/2002	1/10/2003	4/28/2003	7/15/2003	10/22/2003
Lab ID	E304921	E311302	E320814	NV00040	S200306-1530	S200310-0398
Job ID	102471	103271	104493	EV7155	54212	56314
Source	Top	Top	Sage Flats	Sage Flats	Sage Flats	--
MWMP Extraction						
Alkalinity, Total	50.9	31.2	81.1	89	<1	<1
Alkalinity, Bicarbonate	50.9	9.4	81.1	0	74	71
Aluminum	<0.2	0.09	<0.020	<0.02	<0.05	<0.05
Antimony	<0.01	0.016	0.0075	0.009	0.019	0.005
Arsenic	0.37	0.54	0.062	0.393	0.14	0.056
Barium	0.202	0.097	0.0403	1.34	0.21	0.038
Beryllium	<0.002	<0.002	<0.0020	<0.002	<0.002	<0.002
Bismuth	<0.2	<0.02	<0.020	<0.02	<0.05	<0.05
Boron	0.1	0.13	0.186	<0.1	<0.05	0.13
Cadmium	<0.002	<0.002	<0.0020	0.0034	<0.002	<0.002
Calcium	15.1	17.1	24.4	103	20	9.7
Chloride	1.1	1.4	1.93	220.0	1.4	8.6
Chromium	0.007	<0.006	<0.0060	0.038	<0.002	0.003
Cobalt	<0.006	<0.006	<0.0060	<0.02	<0.002	<0.002
Copper	<0.003	<0.003	0.0088	0.074	0.061	0.053
Cyanide (WAD)	<0.01	<0.01	<0.010	0.011	0.01	<0.005
Fluoride	0.4	0.1	0.27	0.56	0.19	0.3
Gallium	<0.02	<0.02	<0.020	<0.05	<0.1	<0.1
Iron	<0.02	<0.02	<0.020	<0.02	<0.1	<0.05
Lead	<0.005	<0.005	<0.0050	0.011	<0.002	<0.002
Lithium	0.005	<0.004	<0.0040	0.130	<0.1	<0.1
Magnesium	3.11	1.27	4.41	13	4.5	3.3
Manganese	<0.002	<0.002	<0.0020	0.234	<0.002	0.004
Mercury	0.0082	0.0012	0.00253	0.1740	0.036	0.019
Molybdenum	0.02	0.04	<0.0080	<0.02	0.004	0.006
Nickel	<0.01	<0.01	<0.010	0.029	0.06	<0.016
Nitrate + Nitrite as N	0.69	1.38	2.68	0.02	0.93	2.9
Nitrate as N	--	--	--	--	--	--
Nitrite as N	--	--	--	--	--	--
pH (s.u.)	7.97	9.74	7.67	6.66	8.3	8.08
Phosphorous	<0.005	<0.05	<0.050	0.28	0.23	0.2
Potassium	3.2	2	2.9	11	3	<1
Scandium	<0.002	<0.002	<0.0020	<0.005	<0.05	<0.05
Selenium	<0.01	<0.01	<0.010	<0.01	<0.002	<0.002
Silver	<0.005	<0.005	<0.0050	<0.01	<0.002	<0.002
Sodium	3.8	2.6	5.09	10	8.7	24
Strontium	0.04	0.036	0.0486	0.293	0.06	<0.05
Sulfate	7.1	10.1	2.46	7	6.7	6.3
Thallium	<0.001	<0.001	<0.0010	0.0112	<0.001	<0.001
Thorium	--	--	--	--	--	--
Tin	<0.01	<0.01	<0.010	<0.05	<0.05	<0.05
Titanium	<0.005	<0.005	<0.0050	<0.005	<0.05	<0.05
Total Dissolved Solids	63	62	118	509	89	120
Uranium	--	--	--	--	--	--
Vanadium	<0.005	<0.005	<0.0050	<0.02	<0.004	0.006
Zinc	<0.005	<0.005	<0.0050	1.100	0.037	<0.05
Acid Base Accounting						
Paste pH (s.u.)	--	--	--	--	--	--
AGP (tons CaCO3/kTon material)	0.3	<0.3	0.31	1.6	6.4	<0.3
ANP (tons CaCO3/kTon material)	66.7	715	126	5.3	30	760
NNP (tons CaCO3/kTon material)	66.4	715	126	3.7	23.6	760
Total Sulfur (wt%)	--	--	--	--	--	--

MWMP Tests for Sage Flats Pits

Sample		Sample 1	Top TDC-2 10-20	Top TDC-2 90-100	Top TDC-2 110-120	Top TDC-2 120-130	Sample 2	Top MDC-2 190-199	Top MDC-2 180-190	Sample 3	Top TDC-2 320-330	Top TDC-2 310-320	Top TDC-4 140-150
Sample Date		12/21/1993	12/21/1993	12/21/1993	12/21/1993	12/21/1993	12/21/1993	12/21/1993	12/21/1993	12/21/1993	12/21/1993	12/21/1993	12/21/1993
Report Date		2/11/1994	2/11/1994	2/11/1994	2/11/1994	2/11/1994	2/11/1994	2/11/1994	2/11/1994	2/11/1994	2/11/1994	2/11/1994	2/11/1994
Location		Top	Top	Top	Top	Top	Mahoney	Mahoney	Mahoney	Top	Top	Top	Top
Hole Number		TDC-2	TDC-2	TDC-2	TDC-2	TDC-2	MDC-1	MDC-1	MDC-2	TDC-2	TDC-2	TDC-2	TDC-4
Interval		10-20, 90-100,	10-20	90-100	110-120	120-130	190-199, 180-190	190-199	180-190	320-330, 310-320,	320-330	310-320	140-150
Rock Type		Quartz Feldspar	Quartz Feldspar	Quartz Feldspar	Quartz Feldspar	Quartz Feldspar	Dolomitic	Dolomitic	Dolomitic	Dolomitic	Dolomitic	Dolomitic	Dolomitic
Alteration	Units	Argillic	Argillic	Argillic	Argillic	Argillic	none	none	none	oxidized	oxidized	oxidized	oxidized
Lab													
MWMP Extraction													
Alkalinity, Total	mg/L as CaCO3	39.9	--	--	--	--	51.1	--	--	47.1	--	--	--
Aluminum	mg/L	0.671	--	--	--	--	0.234	--	--	0.324	--	--	--
Antimony	mg/L	<0.05	--	--	--	--	<0.05	--	--	<0.05	--	--	--
Arsenic	mg/L	<0.1	--	--	--	--	<0.05	--	--	<0.1	--	--	--
Barium	mg/L	0.104	--	--	--	--	0.091	--	--	0.074	--	--	--
Beryllium	mg/L	<0.001	--	--	--	--	<0.001	--	--	<0.001	--	--	--
Bismuth	mg/L	<0.035	--	--	--	--	<0.035	--	--	<0.035	--	--	--
Boron	mg/L						--	--	--	--	--	--	--
Cadmium	mg/L	<0.005	--	--	--	--	<0.005	--	--	<0.005	--	--	--
Calcium	mg/L	12.8	--	--	--	--	17	--	--	16.4	--	--	--
Chloride	mg/L	18.5	--	--	--	--	23.3	--	--	31.5	--	--	--
Chromium	mg/L	<0.01	--	--	--	--	<0.01	--	--	<0.01	--	--	--
Cobalt	mg/L	<0.005	--	--	--	--	<0.005	--	--	<0.005	--	--	--
Copper	mg/L	0.023	--	--	--	--	<0.005	--	--	<0.005	--	--	--
Cyanide (WAD)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Fluoride	mg/L	0.196	--	--	--	--	0.089	--	--	0.055	--	--	--
Gallium	mg/L	<0.01	--	--	--	--	<0.1	--	--	<0.1	--	--	--
Iron	mg/L	2.25	--	--	--	--	<0.05	--	--	0.163	--	--	--
Lead	mg/L	<0.03	--	--	--	--	<0.03	--	--	<0.03	--	--	--
Lithium	mg/L	<0.005	--	--	--	--	<0.005	--	--	0.007	--	--	--
Magnesium	mg/L	1.89	--	--	--	--	7.6	--	--	6.24	--	--	--
Manganese	mg/L	0.029	--	--	--	--	<0.005	--	--	0.008	--	--	--
Mercury	mg/L	0.0005	--	--	--	--	0.0103	--	--	0.0005	--	--	--
Molybdenum	mg/L	<0.01	--	--	--	--	<0.01	--	--	<0.01	--	--	--
Nickel	mg/L	<0.015	--	--	--	--	<0.015	--	--	<0.015	--	--	--
Nitrate + Nitrite as N	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as N	mg/L	0.887	--	--	--	--	0.379	--	--	0.151	--	--	--
Nitrite as N	mg/L	<0.01	--	--	--	--	0.012	--	--	<0.01	--	--	--
pH (s.u.)	SU	8.02	--	--	--	--	8.44	--	--	8.14	--	--	--
Phosphorus	mg/L	0.056	--	--	--	--	0.021	--	--	0.025	--	--	--
Potassium	mg/L	2.23	--	--	--	--	1.49	--	--	2.88	--	--	--
Scandium	mg/L	<0.01	--	--	--	--	<0.01	--	--	<0.01	--	--	--
Selenium	mg/L	<0.05	--	--	--	--	<0.05	--	--	<0.05	--	--	--
Silver	mg/L	<0.01	--	--	--	--	0.026	--	--	<0.01	--	--	--
Sodium	mg/L	17.5	--	--	--	--	8.96	--	--	13.2	--	--	--
Strontium	mg/L	0.026	--	--	--	--	0.017	--	--	0.036	--	--	--
Sulfate	mg/L	4.21	--	--	--	--	3.06	--	--	3.52	--	--	--
Thallium	mg/L	<0.1	--	--	--	--	<0.1	--	--	<0.1	--	--	--
Tin	mg/L	<0.1	--	--	--	--	<0.1	--	--	<0.1	--	--	--
Titanium	mg/L	<0.0005	--	--	--	--	<0.005	--	--	<0.005	--	--	--
Total Dissolved Solids	mg/L	106	--	--	--	--	123	--	--	122	--	--	--
Vanadium	mg/L	<0.007	--	--	--	--	<0.007	--	--	<0.007	--	--	--
Zinc	mg/L	0.015	--	--	--	--	<0.005	--	--	<0.005	--	--	--
Acid Base Accounting													
Paste pH (s.u.)	SU	8.09	8.16	8.29	7.56	7.77	8.11	8.23	7.99	8.78	11.4	8.57	10.5
AGP (tons CaCO3/kton)		0.94	0.63	0.63	0.94	1.25	0.62	0.63	0.94	0.62	0.63	0.63	<0.6
ANP (tons CaCO3/kton)		11.1	12.9	18.3	9.76	9.76	445	817	792	921	860	970	10.4
Total Sulfur (%)		--	0.02	0.02	0.04	0.03	--	0.02	0.02	--	0.02	<0.02	<0.02

MWMP Tests for Sage Flats Pits (continued)

Sample	Top TDC-4 270-280	Sage Waste Facility - Sed Oxid (SGWF_Sed_OX)	Sage Waste Faciity - Int OX (SGWF_Int_OX)	Sage Waste Faciity - Int OX	Sage Waste Facility - Sed Oxid	Sage Waste Faciity	Sage Waste Facility	Sage Waste Faciity	Sage Waste Facility	Sage Waste Faciity	Sage Waste Facility	Sage Waste Facility	Sage Waste Facility
Sample Date	12/21/1993	12/17/2007	12/17/2007	3/19/2008	3/19/2008	12/3/2008	12/3/2008	1st Qtr. 2008	1st Qtr. 2008	2nd Qtr. 2008	2nd Qtr. 2008	3rd QTR 2008	3rd QTR 2008
Report Date	2/11/1994	12/17/2007	12/17/2007	3/19/2008	3/19/2008	12/3/2008	12/3/2008	3/19/2008	3/19/2008	6/23/2008	6/23/2008	9/25/2008	9/25/2008
Location	Top	Top	Top	SGWF_Int_OX	SGWF_Sed_OX	SGWF_Int_OX	SGWF_Sed_OX	SGWF_Int_OX	SGWF_Sed_OX	SGWF_Int_OX	SGWF_Sed_Red cd	SGWF_Int_OX	SGWF_Sed_OX
Hole Number	TDC-4	4th Qtr. 2007	4th Qtr. 2007	(1st Qtr Waste R)	(1st Qtr Waste R)	4th Qtr. 2008	4th Qtr. 2008						
Interval	270-280	SVL	SVL			SVL	SVL	SVL	SVL	SVL	SVL	SVL	SVL
Rock Type	Dolomitic	Nick/Ore Control	Nick/ Ore Control	NAtiemo	NAtiemo	Nick	Nick	Nick	Nick	Nick	Nick	Nick	Nick
Alteration	oxidized							39526	39526	39622	39622	39716	39716
Lab		W703124-05	W703124-06	W801278-02	W801278-03	W8L0154-01	W8L0154-02	W801278-02	W801278-03	W803452-02	W803452-03	W8I0548-01	W8I0548-02
MWMP Extraction													
Alkalinity, Total	--	72.5	51.7	76.8	89.6	112	170	76.8	89.6	69.8	209	101	52.7
Aluminum	--	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080
Antimony	--	0.0628	0.00788	<0.00300	0.0333	0.0646	0.0582	<0.00300	0.0333	0.0115	0.193	0.0212	0.0556
Arsenic	--	0.044	0.0107	0.0663	0.0869	0.117	0.0936	0.0663	0.0869	0.13	0.0864	0.0167	0.0365
Barium	--	0.0169	0.0114	0.141	0.111	0.137	0.0486	0.141	0.111	0.109	0.0991	0.139	0.0544
Beryllium	--	<0.0020	<0.0020	<0.0020	<0.0020	<0.00200	<0.00200	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	--												
Boron	--	0.118	<0.040	0.094	0.151	0.074	0.082	0.094	0.151	0.051	0.107	<0.040	0.043
Cadmium	--	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	--												
Chloride	--	1.93	0.88	2.9	3.87	1.73	11.9	2.9	3.87	5.15	23.6	2.16	4.21
Chromium	--	<0.0060	<0.0060	0.0297	<0.0060	<0.0060	<0.0060	0.0297	<0.0060	0.0065	<0.0060	<0.0060	<0.0060
Cobalt	--												
Copper	--	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.012	<0.010	<0.010
Cyanide (WAD)	--									<0.0100	<0.0100		
Fluoride	--	0.283	0.231	0.459	0.611	0.44	0.413	0.459	0.611	1.14	0.196	<0.100	0.189
Gallium	--												
Iron	--	<0.060	<0.060	<0.060	0.063	<0.060	<0.060	<0.060	0.063	<0.060	<0.060	<0.060	<0.060
Lead	--	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300
Lithium	--												
Magnesium	--	2.94	1.36	1.17	1.67	4	16	1.17	1.67	1.02	49.5	10	5.37
Manganese	--	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Mercury	--	<0.00020	<0.00020	<0.00020	0.00038	0.00232	0.00098	<0.00020	0.00038	<0.00020	0.00355	<0.00020	0.102
Molybdenum	--												
Nickel	--	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Nitrate + Nitrite as N	--												
Nitrate as N	--	1.87	0.318	1.7	0.676	4.33	<1.00	1.7	0.676	1.06	1.88	0.211	43.3
Nitrite as N	--												
pH (s.u.)	--	7.64	7.3	7.2	7.44	7.94	8.1	7.2	7.44	8.34	8.79	8.35	8.05
Phosphorus	--												
Potassium	--	7.05	3.16	3.39	12.9	8.82	4.06	3.39	12.9	3.82	5.27	1.4	3.89
Scandium	--												
Selenium	--	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300
Silver	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	--	8.48	4.03	21.8	19.9	8.48	9.93	21.8	19.9	25.7	9.37	1.89	4.19
Strontium	--												
Sulfate	--	8.46	3.39	15.1	20.7	17.8	7.87						
Thallium	--	0.0015	<0.00100	<0.00100	<0.00100	<0.00100	0.00283	<0.00100	<0.00100	<0.00100	0.00184	<0.00100	0.018
Tin	--												
Titanium	--												
Total Dissolved Solids	--												
Vanadium	--												
Zinc	--	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Acid Base Accounting													
Paste pH (s.u.)	8.88												
AGP (tons CaCO3/kton)	0.63	0	0	<0.3	<0.3	0	0	<0.3	<0.3	0	0	<0.03	<0.03
ANP (tons CaCO3/kton)	788	405.8	714.6	23.2	4.4	8	440	23.2	4.4	40.1	872	576	551
Total Sulfur (%)	<0.02	<0.01	<0.01	<0.01	<0.01	8	440	23.2	4.4	40.1	872	576	551

Baseline Geochemical Assessment
Bald Mountan North Area Expansion

MWMP Tests for Sage Flats Pits (continued)

Sample	Sage Waste Facility	Sage Waste Facility
Sample Date	3rd QTR 2008	3rd QTR 2008
Report Date	9/25/2008	9/25/2008
Location	SGWF_Sed_Red cd	SGWF_Sed_Red cd2
Hole Number		
Interval	SVL	SVL
Rock Type	Nick	Nick
Alteration	39716	39716
Lab	W8I0548-03	W8I0548-04
MWMP Extraction		
Alkalinity, Total	189	94.4
Aluminum	<0.080	<0.080
Antimony	0.0149	0.021
Arsenic	0.0732	0.00884
Barium	0.0918	0.156
Beryllium	<0.0020	<0.0020
Bismuth		
Boron	0.096	0.045
Cadmium	<0.0020	<0.0020
Calcium		
Chloride	16.9	2.98
Chromium	<0.0060	<0.0060
Cobalt		
Copper	<0.010	<0.010
Cyanide (WAD)		
Fluoride	0.217	<0.100
Gallium		
Iron	<0.060	<0.060
Lead	<0.00300	<0.00300
Lithium		
Magnesium	23.7	11.8
Manganese	<0.0040	<0.0040
Mercury	0.00043	<0.00020
Molybdenum		
Nickel	<0.010	<0.010
Nitrate + Nitrite as N		
Nitrate as N	2.45	0.334
Nitrite as N		
pH (s.u.)	8.23	8.41
Phosphorus		
Potassium	2.05	2.01
Scandium		
Selenium	<0.00300	<0.00300
Silver	<0.0050	<0.0050
Sodium	18.1	2.49
Strontium		
Sulfate		
Thallium	0.00174	<0.00100
Tin		
Titanium		
Total Dissolved Solids		
Vanadium		
Zinc	<0.0100	<0.0100
Acid Base Accounting		
Paste pH (s.u.)		
AGP (tons CaCO3/kton)	<0.03	<0.03
ANP (tons CaCO3/kton)	581	828
Total Sulfur (%)	581	828

MWMP Tests for Rat Pits

Sample Name		N. Rat	N. Rat	OHW Rat Waste	OFW Rat WASTE	Rat	S. Rat	S. Rat	S. Rat	S. Rat	S. Rat	S. Rat
Quarterly Report		1st Quarter 1993	2nd Quarter 1993	2nd Quarter 1992	2nd Quarter 1992	4th Quarter 1992	1st Quarter 1993	2nd Quarter 93	3rd Quarter 93	4th Quarter 93	1st Quarter 94	2nd Quarter 94
Sample Date		3/4/1993	6/7/1993	5/26/1992	5/26/1992	11/25/1992	3/4/1993	6/7/1993	9/16/1993	12/14/1993	3/7/1994	5/24/1994
Sample Type	Units	Composite	Composite	6/24/1992	6/24/1992	Composite	Composite	Composite	Composite	Composite	Composite	Composite
Lab ID		93-A000423	93-A001461	5807	5808	92-A001388	93-A000422	93-A001460	C-0042	93-A003686	94-A000658	94-A001978
MWMP Extraction												
Alkalinity, Total	mg/L as CaCO3	76.4	167	54.1	35.9	46.2	73.4	326	64	59.2	53.1	54.9
Alkalinity, Bicarbonate	mg/L as CaCO3	--	--	--	--	--	--	--	--	--	--	--
Aluminum	mg/L	0.099	1.47	0.084	0.139	0.309	<0.0100	2.31	<0.0500	1.03	0.0258	0.199
Antimony	mg/L	< 0.0500	< 0.0500	<0.05	<0.05	<0.05	< 0.0500	<0.0500	0.004	<0.0500	<0.0550	<0.0500
Arsenic	mg/L	< 0.0190	0.17	<0.01	<0.01	0.022	0.014	0.085	<0.0001	0.134	<0.0500	0.16
Barium	mg/L	0.435	0.186	0.128	0.06	0.136	0.358	0.158	3.51	0.226	0.366	0.249
Beryllium	mg/L	< 0.0010	0.006	<0.001	<0.001	<0.001	< 0.0010	<0.0010	<0.0100	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	< 0.0350	< 0.0350	<0.035	<0.035	<0.035	< 0.0350	<0.0350	<0.1000	<0.0350	<0.0350	<0.0350
Boron	mg/L	--	--	0.167	0.141	--	--	--	--	--	--	--
Cadium	mg/L	< 0.0050	<0.0050	<0.007	<0.007	<0.01	< 0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Calcium	mg/L	76.5	63.1	16.6	12.1	16.6	24.2	45.2	472	30.5	28.4	21.2
Chloride	mg/L	4	3.45	<0.25	0.61	1.11	0.5	1.26	1	0.37	<0.0100	1.66
Chromium	mg/L	< 0.0100	0.13	<0.01	<0.01	<0.01	< 0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Cobalt	mg/L	< 0.0050	0.008	<0.007	<0.007	<0.005	< 0.0050	<0.0050	<0.0100	<0.0050	<0.0050	<0.0050
Copper	mg/L	< 0.0050	0.016	<0.007	<0.007	0.007	< 0.0050	<0.0050	<0.0100	0.009	<0.0050	<0.0050
Cyanide (WAD)	mg/L	--	--	--	--	--	--	--	--	--	--	--
Fluoride	mg/L	0.165	0.47	<0.1	<0.1	0.198	0.13	0.35	0.4	0.201	0.286	3.23
Gallium	mg/L	< 0.1000	< 0.1000	<0.02	<0.02	<0.1	< 0.1000	<0.1000	<0.1000	<0.1000	<0.1000	<0.1000
Iron	mg/L	0.24	2.04	0.02	0.054	0.276	0.63	1.96	<0.0200	3.15	<0.0500	<0.3830
Lead	mg/L	< 0.0050	< 0.0300	<0.05	<0.05	<0.005	< 0.0050	<0.0300	<0.0010	<0.0300	<0.0300	<0.0300
Lithium	mg/L	0.007	0.015	<0.005	<0.005	<0.005	< 0.0050	<0.0050	<0.0500	<0.0100	0.005	0.009
Magnesium	mg/L	22.1	9.23	2	0.687	6.3	7.98	7.24	66.3	6.17	6.19	6.25
Manganese	mg/L	0.014	0.079	0.007	0.008	0.008	0.019	0.068	0.06	0.058	<0.0050	0.005
Mercury	mg/L	< 0.0002	< 0.0003	0.000689	0.000669	<0.0005	0.0003	<0.0003	<0.0002	0.0005	<0.0002	<0.0002
Molybdenum	mg/L	< 0.0100	0.053	<0.015	<0.015	<0.01	< 0.0100	0.011	<0.0100	<0.0100	<0.0150	<0.0100
Nickel	mg/L	< 0.0150	< 0.0150	<0.015	<0.015	--	< 0.0150	<0.0150	<0.0100	<0.0150	<0.0150	<0.0150
Nitrate + Nitrite as N	mg/L	--	--	--	--	7.57	--	--	--	--	--	--
Nitrate as N	mg/L	--	--	0.5	1	--	--	--	--	--	--	--
Nitrite as N	mg/L	--	--	--	--	--	--	--	--	--	--	--
pH (s.u.)	SU	8.06	8.44	7.2	6.8	8.38	8.43	8.34	8.2	8.41	8.07	8.27
Phosphorus	mg/L	0.065	0.148	0.029	0.045	<0.026	0.06	0.087	<0.0500	0.111	<0.0100	0.017
Potassium	mg/L	6.68	8.06	<1.5	<1.5	2.37	2.48	3.74	15.9	2.46	3.16	3.86
Scandium	mg/L	< 0.0100	0.011	<0.01	<0.01	<0.01	< 0.0100	<0.0100	<0.0500	<0.0100	<0.0100	<0.0100
Selenium	mg/L	< 0.0050	< 0.0050	<0.005	<0.005	<0.005	< 0.0050	<0.0050	<0.0020	<0.0500	<0.0500	<0.0500
Silver	mg/L	< 0.0100	< 0.0100	<0.02	<0.02	<0.01	< 0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Sodium	mg/L	7.95	12.1	3.47	4.2	4.06	1.47	6.68	7.68	3.97	6.94	4.48
Strontium	mg/L	0.244	0.141	0.009	0.036	0.038	0.031	0.188	1.99	0.064	0.122	0.101
Sulfate	mg/L	5.92	15.1	3.3	3.82	7.72	5.07	11.2	15	4.6	16.4	11
Thallium	mg/L	< 0.0050	< 0.0050	<0.15	<0.15	<0.005	< 0.0050	<0.0050	<0.0100	<0.1000	<0.0100	<0.1000
Tin	mg/L	< 0.1000	< 0.1000	<1.3	<1.3	<0.2	< 0.1000	<0.1000	<0.1000	<0.1000	<0.1000	<0.1000
Titanium	mg/L	0.005	0.021	<0.001	0.001	<0.005	< 0.0050	0.052	<0.0100	0.015	0.005	<0.0050
Total Dissolved Solids	mg/L	504	172	119	64	137	164	112	166	206	151	130
Vanadium	mg/L	< 0.0070	0.016	<0.007	<0.007	<0.007	< 0.0070	0.008	<0.0100	0.011	<0.0070	<0.0070
Zinc	mg/L	< 0.0050	0.023	0.008	<0.005	<0.005	0.009	0.013	0.005	0.031	<0.0130	0.013
Acid Base Accounting												
Paste pH (s.u.)		8.73	8.56	8.15	7.98	8.85	8.31	8.71	8.2	8.57	8.36	8.33
AGP (tons CaCO3/kton)		< 0.6000	0.62	1	1	0.94	0.63	0.94	0.6	0.94	<3.47	1.88
ANP (tons CaCO3/kton)		633	401	938	544	703	773	470	537	563	399	318
NNP (tons CaCO3/kton)		633	400.38	937	543	702.06	772.37	469.06	536.4	562.06	396	316.12

MWMP Tests for Rat Pits (continued)

Sample Name	S. Rat	S. Rat	S. Rat	S. Rat	Stage (Rat)	Stage (Rat)	Stage (Rat)	Stage (Rat)	Stage (Rat)	Stage (Rat)	Stage (Rat)	Stage (Rat)
Quarterly Report	3rd Quarter 1994	4th Quarter 1994	2nd Quarter 1996	3rd Quarter 1996	1st Quarter 1993	2nd Quarter 1993	3rd Quarter 1993	4th Quarter 1993	1st Quarter 1994	1st Quarter 1995	2nd Quarter 1995	3rd Quarter 1995
Sample Date	9/23/1994	11/19/1994	6/14/1996	8/7/1996	3/4/1993	6/7/1993	9/16/1993	12/14/1993	3/7/1994	2/23/1995	6/14/1995	8/31/1995
Sample Type	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite	7/10/1995	Composite
Lab ID	94-A003348	94-A004114			93-A000424	93-A001462	C0042	A003687	A94-A000657	SP032701	95-A001260	95-A002410
MWMP Extraction												
Alkalinity, Total	57	67.1	48	57	72.9	24	92	53.2	52.1	83.8	67.9	63.6
Alkalinity, Bicarbonate	--	--	48	--	--	--	--	--	--	--	67.9	63.6
Aluminum	0.3	0.2	0.06	<0.01	< 0.3770	0.691	<0.0500	0.707	0.274	0.159	0.45	0.554
Antimony	<0.1	<0.1	0.004	0.026	< 0.0500	< 0.0500	< 0.0030	< 0.0500	< 0.0500	< 0.0250	<0.2	0.016
Arsenic	<0.2	<0.1	0.13	0.17	0.068	0.099	0.019	0.143	< 0.0500	0.036	<0.1	<0.1
Barium	0.305	0.253	0.092	<0.1	0.052	0.081	3.52	0.233	0.309	0.102	0.051	0.094
Beryllium	<0.005	<0.005	<0.0002	<0.1	< 0.0010	< 0.0010	< 0.0100	< 0.0010	< 0.0010	< 0.0060	<0.005	0.009
Bismuth	<0.035	<0.035	<0.05	<0.1	< 0.0350	< 0.350	< 0.1000	< 0.0350	< 0.0350	< 0.0050	<0.035	<0.035
Boron	--	--	--	--	--	--	--	--	--	--	--	--
Cadium	<0.005	<0.005	<0.001	<0.001	<0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.001	<0.005	<0.005
Calcium	31.6	23.2	<11.1	34	27.7	31.6	940	58.9	24	22.2	17.7	20.6
Chloride	2.52	1.55	<1	2	7.5	2.23	2	2.23	11.4	7.3	2.11	3.15
Chromium	<0.1	<0.1	<0.001	<0.1	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0.001	<0.01	<0.01
Cobalt	<0.005	<0.005	<0.002	<0.1	< 0.0050	< 0.0050	< 0.0100	< 0.0050	< 0.0050	0.004	<0.005	0.01
Copper	<0.005	<0.005	0.017	<0.1	< 0.0050	< 0.0050	< 0.0100	0.008	< 0.0050	0.001	0.006	0.01
Cyanide (WAD)	--	--	--	279	--	--	--	--	--	--	--	<0.005
Fluoride	0.362	0.357	0.5	0.4	0.327	0.37	0.4	0.287	0.274	0.52	0.846	1.25
Gallium	<0.1	<0.1	<0.01	<0.1	< 0.1000	< 0.1000	< 0.1000	< 0.1000	< 0.1000	0.017	<0.1	<0.1
Iron	0.054	0.055	0.008	<0.1	0.774	3.44	< 0.0200	3.74	< 0.0500	0.204	0.433	<0.05
Lead	<0.03	<0.03	<0.005	<0.005	< 0.0050	< 0.0300	< 0.0010	< 0.0300	< 0.0300	0.043	<0.03	<0.03
Lithium	0.008	<0.005	0.003	<0.1	< 0.0050	0.01	< 0.0500	< 0.0100	< 0.0050	0.021	0.006	0.02
Magnesium	14.1	5.54	5.47	30	3.56	7.48	113	8.83	< 7.6200	5.12	7.23	11.9
Manganese	0.006	<0.005	0.003	<0.1	0.016	0.043	0.16	0.078	0.005	0.005	0.008	0.011
Mercury	<0.0002	<0.0002	0.0004	<0.0005	0.0005	< 0.0003	< 0.0002	<0.0002	< 0.0002	< 0.0002	0.0002	0.0003
Molybdenum	0.019	0.011	0.02	<0.1	< 0.0100	0.017	< 0.0100	0.014	< 0.0100	0.001	<0.01	0.036
Nickel	<0.015	<0.015	<0.002	<0.1	< 0.0150	< 0.0150	0.02	< 0.0150	< 0.0150	0.009	<0.015	<0.015
Nitrate + Nitrite as N	--	--	1.83	0.2	--	--	--	--	--	--	4.69	6.6
Nitrate as N	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as N	--	--	--	--	--	--	--	--	--	--	--	--
pH (s.u.)	8.04	8.32	8.27	8.14	8.15	8.33	8.47	8.25	8.2	8.1	8.17	7.89
Phosphorus	0.032	0.025	0.07	<0.1	0.143	< 0.1000	< 0.0500	0.029	0.012	< 0.0200	0.028	<0.025
Potassium	6.5	3.08	5.08	17	3.79	5.79	34.2	5.46	4.72	2.72	4.02	8.08
Scandium	<0.01	<0.01	<0.005	<0.1	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0.001	<0.1	0.018
Selenium	<0.1	<0.1	<0.002	0.018	< 0.0050	< 0.0050	0.004	< 0.0500	< 0.0500	0.038	<0.1	<0.1
Silver	<0.01	<0.01	<0.002	<0.002	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0250	<0.01	<0.01
Sodium	4.88	5.68	2.14	4.7	7.72	5.44	9.2	4.43	8.8	6.64	10.3	7.71
Strontium	0.195	0.086	0.56	0.2	0.07	0.089	1.25	0.144	0.101	0.089	0.066	0.112
Sulfate	15.5	7.74	7	130	4.93	12.5	< 18.0000	7.98	6.49	8.13	7.17	40.8
Thallium	<0.1	<0.1	<0.001	<0.001	< 0.0050	< 0.0050	< 0.0100	< 0.1000	< 0.1000	0.252	<0.1	<0.002
Tin	<0.1	<0.1	<0.02	<0.5	< 0.1000	< 0.1000	< 0.1000	< 0.1000	< 0.1000	< 0.0080	<0.1	<0.1
Titanium	<0.005	<0.005	<0.002	<0.1	< 0.0050	0.009	< 0.0100	0.012	< 0.0050	0.018	0.008	0.009
Total Dissolved Solids	216	128	48	279	208	168	182	117	159	129	<0.007	83
Vanadium	<0.007	<0.007	<0.002	<0.1	< 0.0070	< 0.0070	< 0.0100	0.0009	< 0.0070	0.002	120	0.011
Zinc	0.009	0.01	0.005	<0.1	0.008	0.023	0.006	0.033	0.012	0.046	<0.005	0.015
Acid Base Accounting												
Paste pH (s.u.)	7.81	8.71	8.86	9.83	8.19	8.65	8.47	8.63	8.42	10.67	9.34	9.06
AGP (tons CaCO3/kton)	5	2.81	3.53	19	3.13	1.88	0.3	2.5	1.88	0.9	1.25	2.66
ANP (tons CaCO3/kton)	677	406	438	742	305	521	539	663	646	889.1	846	626
NNP (tons CaCO3/kton)	672	403.19	434.47	723	301.87	519.12	538.7	660.5	644.12	888.2	844.75	623.34

MWMP Tests for Rat Pits (continued)

Sample Name	Stage (Rat)	RAT Waste Facility - Sed OX (RWF_Sed_OX)	RAT Waste Facility - Sed OX (RWF_Sed_OX)	RAT Waste Facility - Sed OX (RWF_Sed_OX)	RAT Waste Facility - Sed OX (RWF_Sed_OX)	RAT Waste Facility - Sed OX (RWF_Sed_OX)	RAT Waste Facility - Sed OX	RAT Waste Facility
Quarterly Report	4th Quarter 1995	4th Qtr. 2006	1st Qtr. 2007	2nd Qtr. 2007	3rd Qtr. 2007	4th Qtr. 2007	RWF_Sed_OX	RWF_Sed_OX
Sample Date	12/5/1995	12/28/06	03/16/07	06/12/07	09/13/07	12/17/07	1st QTR 2008	1st Qtr. 2008
Sample Type	Composite	Nick	Nick/Ore Control	Nick/Ore Control	Nick/Ore Control	Nick/Ore Control	3/19/2008	3/19/2008
Lab ID	95-A003469	E556619	E565821	E581646	W701328-06	W703124-04	W801278-04	W801278-04
MWMP Extraction								
Alkalinity, Total	55.1	119	44.3	88.4	53.2	55.5	89.2	89.2
Alkalinity, Bicarbonate	55.1	109	44.3	81.9	47	55.5	89.2	89.2
Aluminum	<0.075	<0.080	<0.080	<0.08	<0.080	0.103	<0.080	<0.080
Antimony	<0.02	0.0124	0.0032	0.0128	0.00834	0.00305	0.0164	0.0164
Arsenic	0.069	<0.025	0.0136	0.016	0.0051	<0.00300	0.0193	0.0193
Barium	0.085	0.245	0.146	0.262	0.242	0.165	0.218	0.218
Beryllium	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bismuth	<0.011	<0.06						
Boron	--	<0.04	0.17	<0.040	<0.040	<0.040	0.074	0.074
Cadium	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	25.3							
Chloride	8.28	2.55	1.13	4.39	3.71	2.18	4.97	4.97
Chromium	<0.003	<0.0060	<0.0060	<0.006	<0.0060	<0.0060	<0.0060	<0.0060
Cobalt	<0.001	<0.006						
Copper	0.003	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cyanide (WAD)	--	<0.010	<0.010	<0.010				
Fluoride	0.696	<0.100	0.41	0.12	<0.100	0.391	0.13	0.13
Gallium	<0.006	<0.020						
Iron	0.097	<0.06	<0.06	<0.06	<0.060	<0.060	<0.060	<0.060
Lead	0.015	<0.0075	<0.0075	0.0109	<0.00300	<0.00300	<0.00300	<0.00300
Lithium	0.008	<0.020						
Magnesium	12.5	23.3	3.05	18.7	8.9	1.25	14.9	14.9
Manganese	0.003	<0.004	<0.004	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Mercury	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	0.021	0.01						
Nickel	<0.006	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Nitrate + Nitrite as N	--							
Nitrate as N	12.7	4.06	7.53	3.06	0.663	3.1	0.278	
Nitrite as N	0.267							0.278
pH (s.u.)	8.18						8.08	8.08
Phosphorus	<0.025	<0.05						
Potassium	7.47	2	2.3	3.13	3.25	7.62	2.99	2.99
Scandium	<0.001							
Selenium	<0.04	<0.04	0.004	<0.0030	<0.00300	<0.00300	<0.00300	<0.00300
Silver	<0.01	<0.0050	<0.0050	<0.005	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	4.78	6.1	2.77	3.84	2.86	2.58	13.1	13.1
Strontium	0.112	0.041						
Sulfate	29.8	14.9	11.6	13.8	11.3	12.1	19.7	19.7
Thallium	<0.002	<0.0020	<0.00200	<0.00200	<0.00100	<0.00100	<0.00100	<0.00100
Tin	<0.1	<0.05						
Titanium	<0.005	<0.0050						120
Total Dissolved Solids	173							
Vanadium	<0.007	0.0106						
Zinc	0.003	<0.010	<0.010	<0.010	<0.0100	<0.0100	<0.0100	<0.0100
Acid Base Accounting								
Paste pH (s.u.)	8.77	8.46	7.35	8.59	8.61	7.74		
AGP (tons CaCO3/kton)	5.62	<0.3	<0.3	<0.3	0	0	<0.3	<0.3
ANP (tons CaCO3/kton)	364	857	711	913	965.44	502.8	931	931
NNP (tons CaCO3/kton)	358.38	857	711	913	965.44	502.8	931	931

MWMP Tests for Saga Pits

Station Name		Saga Waste Facility Sed Redcd	Saga Waste Facility Sed Oxid	Saga Waste Facility Int Oxide	Saga Waste Facility Sed Oxid	Saga Waste Facility Sed Oxide	Saga Waste Facility Sed Redcd	Saga Waste Facility	Saga Waste Facility	Saga Waste Facility	Saga Waste Facility	Saga Waste Facility
Stn.Code		SWF_Sed_Redcd	SWF_Sed_OX	SWF_Int_OX	SWF_Sed_OX	SWF_Sed_OX	SWF_Sed_Redcd	SWF_Sed_OX	SWF_Sed_OX	SWF_Sed_Redcd	SWF_Sed_OX	SWF_Sed_OX
Sampling Session		4th Qtr. 2007	4th Qtr. 2007	3rd Qtr. 2007	1st Qtr Waste R	2nd Qtr. 2008	2nd QTR 2008	1st Qtr. 2008	2nd Qtr. 2008	2nd Qtr. 2008	3rd QTR 2008	4th Qtr. 2008
Collect Date/Time		12/17/07	12/17/07	09/13/07	03/19/08	06/23/08	06/23/08	03/19/08	06/23/08	06/23/08	09/25/08	12/03/08
Lab Name		SVL	SVL	SVL	SVL	SVL	SVL	SVL	SVL	SVL	SVL	SVL
Sampled By		Nick/Ore Control	Nick/Ore Control	Nick/Ore Control	NAtiemo	Nick	Nick	Nick	Nick	Nick	Nick	Nick
Lab Test Date	Units	12/17/2007	12/17/2007	9/13/2007	3/19/2008	6/23/2008	6/23/2008	3/19/2008	6/23/2008	6/23/2008	9/25/2008	12/3/2008
Lab Reference Number		W703124-03	W703124-02	W701328-05	W801278-01	W803452-04	W803452-01	W801278-01	W803452-04	W803452-01	W8I0548-05	W8L0154-07
MWMP Extraction												
Alkalinity, Total	mg/L as CaCO3	60	67.6	113	63.8	89.9	48	63.8	89.9	48	62.2	86.5
Alkalinity, Bicarbonate	mg/L as CaCO3	60	67.6	107	63.8	87.8	48	63.8	87.8	48	62.2	86.5
Aluminum	mg/L	<0.080	<0.080	0.618	0.435	0.392	<0.080	0.435	0.392	<0.080	<0.080	0.183
Antimony	mg/L	<0.00300	0.0846	0.00407	0.0103	0.00388	0.127	0.0103	0.00388	0.127	<0.00300	0.0142
Arsenic	mg/L	0.00526	0.054	0.252	0.0116	0.0591	0.0135	0.0116	0.0591	0.0135	0.0169	0.0257
Barium	mg/L	0.0194	0.199	0.0637	0.146	0.0504	0.206	0.146	0.0504	0.206	0.209	0.101
Beryllium	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.00200
Bismuth	mg/L											
Boron	mg/L	<0.040	0.044	0.404	0.067	0.393	0.065	0.067	0.393	0.065	0.051	0.078
Cadium	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	mg/L											
Chloride	mg/L	8.31	1.03	50.8	1.38	92.6	3.63	1.38	92.6	3.63	3.68	8.34
Chromium	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Cobalt	mg/L											
Copper	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cyanide (WAD)	mg/L					<0.0100	<0.0100		<0.0100	<0.0100		
Fluoride	mg/L	0.248	1.52	1.98	0.433	1.09	0.64	0.433	1.09	0.64	0.442	1.04
Gallium	mg/L											
Iron	mg/L	<0.060	<0.060	0.2	0.079	0.098	<0.060	0.079	0.098	<0.060	<0.060	<0.060
Lead	mg/L	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	0.00382	<0.00300	<0.00300	0.00382	<0.00300	<0.00300
Lithium	mg/L											
Magnesium	mg/L	221	1.2	4.17	4.04	7.55	1.6	4.04	7.55	1.6	1.55	2.43
Manganese	mg/L	0.502	<0.0040	0.0049	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Mercury	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00023	<0.00020	<0.00020	0.00023	<0.00020	0.00077	0.00194
Molybdenum	mg/L											
Nickel	mg/L	0.275	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Nitrate + Nitrite as N	mg/L											
Nitrate as N	mg/L	13.7	2.12	1.83	1.42	3.75	4.11					
Nitrite as N	mg/L							1.42	3.75	4.11	5.94	1.29
pH (s.u.)	SU	7.23	8.1	8.43	7.01	8.4	8.28	7.01	8.4	8.28	8.25	8.11
Phosphorus	mg/L											
Potassium	mg/L	26.2	5.49	3.51	10.1	5.15	8.79	10.1	5.15	8.79	5.88	14.9
Scandium	mg/L											
Selenium	mg/L	0.0517	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300
Silver	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	21.6	6.9	170	6.81	117	5.77	6.81	117	5.77	14.6	20
Strontium	mg/L											
Sulfate	mg/L	1830	18.8	172	40	143	19.4	40	143	19.4	23.9	47.4
Thallium	mg/L	0.00796	0.00197	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Tin	mg/L											
Titanium	mg/L											
Total Dissolved Solids	mg/L							140				
Vanadium	mg/L											
Zinc	mg/L	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Acid Base Accounting												
Paste pH (s.u.)												
AGP (tons CaCO3/kton)		56.85	7	2.87	8.53	0	0	8.53	0	0	<0.03	3.94
ANP (tons CaCO3/kton)		306.3	71.5	53.78	<0.3	185	791	<0.3	185	791	258	3.5
NNP (tons CaCO3/kton)		249.4	64.5	50.91	-8.53	185	791	-8.53	185	791	258	-0.44

MWMP Tests for LJ Pits

Sample ID		LJC-3-1-M	LJC-4-2-M	SRC-1-2-M	LJC-6-1-A	LJC-3-1-A	LJC-8-1-A	LJC-5-2-A	LJC-4-2-A	LJC-8-2-A	SRC-1-2-A	SRC1135140D	LJC2170175D
Sample Location		LJ Ridge	LJ Ridge	LJ Ridge	LJ Ridge	LJ Ridge	LJ Ridge	LJ Ridge	LJ Ridge	LJ Ridge	LJ Ridge	LJ Ridge	LJ Ridge
Sample Type		drillhole composite	drillhole composite	drillhole composite	drillhole composite	drillhole composite	drillhole composite	drillhole composite	drillhole composite	drillhole composite	drillhole composite	drillhole composite	drillhole composite
Drill Hole		LJC-3	LJC-4-2-M	SRC-1	LJC-6	LJC-3	LJC-8	LJC-5	LJC-4-2-A	LJC-8	SRC-1-2-A	SRC-1	LJC-2
Interval		35-40	175-180	25-30	140-145	40-45	245-250	80-85	170-175	380-385	20-25	135-140	170-175
Formation		Hamburg	Hamburg	Hamburg	Hamburg	Hamburg	Hamburg	Dunderberg	Dunderberg	Dunderberg	Dunderberg	Dunderberg	Dunderberg
Rock Type		Limestone	Silty Limestone	Silty Limestone	Silty Limestone	Limestone	Limestone	Silty Limestone	Silty Limestone	Silty Limestone	Silty Limestone	Silty Limestone	Silty Limestone
Alteration		argillic	carbonaceous	none	argillic	argillic	none	carbonaceous	carbonaceous	carbonaceous	none	carbonaceous	carbonaceous
Mineralization		none	0.1% py	0.1% py	trace py	none	0.5 py/arsenopy	trace py	trace py	trace py	0.1% py	trace py	none
Reporting Period		--	--	--	--	--	--	--	--	--	--	--	--
Sample Date	Units	1/31/1996	1/31/1996	1/31/1996	1/31/1996	1/31/1996	1/31/1996	1/31/1996	1/31/1996	1/31/1996	1/31/1996	3/29/1996	3/29/1996
Lab ID		--	--	--	--	--	--	--	--	--	--	--	--
MWMP Extraction													
Alkalinity, Total	mg/L as CaCO3	17.9	12.1	15.8	--	--	--	--	--	--	--	29	35
Alkalinity, Bicarbonate	mg/L as CaCO3	17.9	12.1	15.8	--	--	--	--	--	--	--	29	35
Aluminum	mg/L	0.231	0.15	0.125	--	--	--	--	--	--	--	0.16	0.2
Antimony	mg/L	0.003	<0.002	0.006	--	--	--	--	--	--	--	<0.08	<0.08
Arsenic	mg/L	0.006	<0.005	0.016	--	--	--	--	--	--	--	0.051	0.01
Barium	mg/L	0.024	0.018	0.019	--	--	--	--	--	--	--	0.01	0.03
Beryllium	mg/L	<0.002	<0.002	<0.002	--	--	--	--	--	--	--	<0.001	<0.001
Bismuth	mg/L	<0.011	<0.011	<0.011	--	--	--	--	--	--	--	<0.2	<0.2
Boron	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/L	<0.002	<0.002	<0.002	--	--	--	--	--	--	--	<0.005	<0.005
Calcium	mg/L	6.04	5.02	4.11	--	--	--	--	--	--	--	8.3	8
Chloride	mg/L	<1.5	<1.5	<1.5	--	--	--	--	--	--	--	<1	<1
Chromium	mg/L	<0.003	<0.003	0.003	--	--	--	--	--	--	--	<0.005	<0.005
Cobalt	mg/L	<0.001	<0.001	0.003	--	--	--	--	--	--	--	<0.01	<0.01
Copper	mg/L	0.009	0.003	0.01	--	--	--	--	--	--	--	<0.01	<0.01
Cyanide (WAD)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Fluoride	mg/L	0.022	0.019	0.023	--	--	--	--	--	--	--	<0.5	<0.5
Gallium	mg/L	<0.006	<0.006	<0.006	--	--	--	--	--	--	--	<0.05	<0.05
Iron	mg/L	0.055	<0.05	<0.05	--	--	--	--	--	--	--	<0.01	0.04
Lead	mg/L	<0.002	0.01	<0.002	--	--	--	--	--	--	--	<0.005	<0.005
Lithium	mg/L	<0.002	<0.002	0.003	--	--	--	--	--	--	--	<0.01	<0.01
Magnesium	mg/L	0.572	0.36	0.332	--	--	--	--	--	--	--	0.7	2.9
Manganese	mg/L	0.009	0.004	0.01	--	--	--	--	--	--	--	<0.01	<0.01
Mercury	mg/L	<0.0002	<0.0002	<0.0002	--	--	--	--	--	--	--	<0.0002	0.0002
Molybdenum	mg/L	0.006	<0.004	<0.004	--	--	--	--	--	--	--	<0.02	<0.02
Nickel	mg/L	<0.006	<0.006	<0.006	--	--	--	--	--	--	--	<0.01	<0.01
Nitrate + Nitrite as N	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as N	mg/L	0.02	<0.01	0.02	--	--	--	--	--	--	--	0.03	0.03
Nitrite as N	mg/L	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	<0.01	<0.01
pH (s.u.)	SU	7.32	7.59	7.43	--	--	--	--	--	--	--	8.01	7.94
Phosphorus	mg/L	<0.025	<0.025	<0.025	--	--	--	--	--	--	--	0.01	<0.01
Potassium	mg/L	<1	<1	<1	--	--	--	--	--	--	--	0.8	1.3
Scandium	mg/L	0.002	<0.001	<0.001	--	--	--	--	--	--	--	<0.02	<0.02
Selenium	mg/L	<0.002	<0.002	<0.002	--	--	--	--	--	--	--	<0.002	<0.002
Silver	mg/L	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	<0.005	<0.005
Sodium	mg/L	1.15	1.26	2.52	--	--	--	--	--	--	--	1.6	1.1
Strontium	mg/L	0.019	0.021	0.025	--	--	--	--	--	--	--	0.05	0.08
Sulfate	mg/L	<1	<1	1.87	--	--	--	--	--	--	--	<5	<5
Thallium	mg/L	<0.002	<0.002	<0.002	--	--	--	--	--	--	--	<0.001	<0.001
Tin	mg/L	<0.1	<0.1	<0.1	--	--	--	--	--	--	--	<0.1	<0.1
Titanium	mg/L	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	<0.01	<0.01
Total Dissolved Solids	mg/L	20	20	26	--	--	--	--	--	--	--	<5	20
Vanadium	mg/L	<0.007	<0.007	<0.007	--	--	--	--	--	--	--	<0.01	<0.01
Zinc	mg/L	0.005	<0.002	0.004	--	--	--	--	--	--	--	0.06	<0.01
Acid Base Accounting													
AGP (tons CaCO3/kton)		1	3.25	1.31	3.88	0.91	1.41	2.94	3.75	1.16	3.81	--	--
ANP (tons CaCO3/kton)		867	822	488	938	994	829	540	612	580	686	--	--
NNP (tons CaCO3/kton)		866	818.75	486.69	934.12	993.09	827.59	537.06	608.25	578.84	682.19		
Paste pH (s.u.)		10.8	11.5	10.7	10.4	11.1	11.5	10.9	10.6	10.3	10.9	--	--

MWMP Tests for LJ Pits (continued)

Sample ID	LJC103540H	LJ Ridge	LJ Ridge	LJ Ridge	LJ Ridge	LJ Ridge	LJ Ridge	LJ Ridge	LJ Ridge	LJ Ridge	LJ Ridge	LJ Ridge	LJ Ridge
Sample Location	LJ Ridge	LJ Ridge	LJ Ridge	LJ Ridge	LJ Ridge	LJ Ridge	LJ Ridge	LJ Ridge	LJ Ridge	LJ Ridge	LJ Ridge	LJ Ridge	LJ Ridge
Sample Type	drillhole composite												
Drill Hole	LJC-10												
Interval	35-40	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite
Formation	Hamburg												
Rock Type	Limestone												
Alteration	argillic												
Mineralization	none												
Reporting Period	--	4th Quarter 1997	2nd Quarter 1998	2nd Quarter 1998	2nd Quarter 1998	4th Quarter 1998	1st Quarter 1999	3rd Quarter 1999	4th Quarter 1999	1st Quarter 2000	2nd Quarter 2000	3rd Quarter 2000	4th Quarter 2000
Sample Date	3/29/1996	18-Nov-97	Mar-98	Apr-98	May-98	9-Oct-98	06-22-99	08-31-99	Nov-99	6-Mar-00	4-Jun-00	16-Aug-00	21-Nov-00
Lab ID	--	974205-1	982392-3	982392-1	982392-2	983449	992239-2	9909095-1A	9912090	E228254	E234754	E241835	249832
MWMP Extraction													
Alkalinity, Total	26	42	68	54	40	56	16	32	23	23.8	40.1	24.7	61.2
Alkalinity, Bicarbonate	26	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum	0.07	0.1	0.02	0.03	0.06	0.05	0.07	0.047	ND	0.03	0.128	0.051	0.1
Antimony	<0.08	0.032	<0.003	0.0040	0.0430	0.087	<0.003	ND	ND	<0.002	<0.002	<0.002	<0.005
Arsenic	<0.005	0.023	0.0160	0.0520	0.0460	0.059	<0.003	ND	0.0041	0.001	0.019	<0.04	0.03
Barium	0.02	0.27	0.1100	0.06	0.09	0.19	<0.02	0.012	0.26	0.006	0.009	0.01	0.016
Beryllium	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	ND	ND	<0.002	<0.002	<0.002	<0.002
Bismuth	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	ND	ND	<0.024	0.094	0.049	<0.02
Boron	--	--	--	--	--	0.3	<0.1	--	--	0.084	0.066	0.062	0.08
Cadmium	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	ND	ND	<0.0024	<0.0024	<0.002	<0.002
Calcium	8	14	15.1	11.6	9.22	14.20	5.54	3.2	6.2	7.07	7.48	7.54	15.4
Chloride	<1	<4	8	<4	<4	4	<4	ND	ND	0.2	0.3	0.3	1.1
Chromium	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	ND	ND	<0.005	<0.005	<0.006	<0.006
Cobalt	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	ND	ND	<0.005	<0.005	<0.006	<0.006
Copper	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	ND	0.013	<0.003	<0.003	<0.003	0.005
Cyanide (WAD)	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	ND	ND	<0.01	<0.01	<0.01	<0.01
Fluoride	<0.5	0.3	0.3	0.3	0.3	0.5	<0.1	ND	ND	<0.1	<0.1	<0.1	0.3
Gallium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	ND	ND	<0.022	<0.022	<0.022	<0.02
Iron	<0.01	<0.1	0.02	0.01	0.02	<0.05	<0.1	ND	ND	<0.02	<0.02	<0.02	<0.02
Lead	<0.005	<0.003	<0.002	<0.002	<0.002	<0.002	0.003	ND	ND	<0.002	<0.002	<0.002	<0.005
Lithium	<0.01	<0.02	0.01	<0.01	<0.01	<0.01	<0.01	ND	ND	<0.003	<0.003	<0.004	<0.004
Magnesium	0.6	1.8	10.5	5.43	4.08	3.18	0.77	0.6	1.1	0.854	0.69	0.653	5.36
Manganese	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	ND	ND	<0.002	<0.002	<0.002	0.003
Mercury	<0.0002	0.0011	0.001	<0.0002	<0.0002	<0.0002	<0.0002	ND	ND	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	ND	ND	<0.008	0.015	<0.008	0.021
Nickel	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	ND	ND	<0.023	<0.023	<0.024	<0.005
Nitrate + Nitrite as N	--	3	4.98	0.74	1.71	4.79	<0.05	0.27	0.15	--	--	0.21	--
Nitrate as N	<0.02	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as N	<0.01	--	--	--	--	--	--	--	--	--	--	--	--
pH (s.u.)	7.81	7.27	8.36	7.46	8.48	8.24	7.01	7.64	--	7.47	7.92	7.81	7.11
Phosphorus	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	ND	ND	<0.074	<0.074	<0.13	<0.05
Potassium	0.4	<5	5	5	5	4	<1	ND	ND	<1.7	<1.7	<1.7	2
Scandium	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	ND	ND	<0.002	<0.002	<0.002	<0.002
Selenium	<0.002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	ND	--	<0.001	<0.001	<0.05	<0.01
Silver	<0.005	<0.01	<0.01	6	<0.01	<0.01	<0.01	ND	ND	<0.006	<0.006	<0.007	<0.005
Sodium	1.3	9	9	0.201	5	21	<1	1.8	3.4	1.71	2.03	1.38	3.9
Strontium	0.04	0.088	0.246	14	0.123	0.123	0.024	0.052	0.047	0.033	0.059	0.035	0.246
Sulfate	<5	9	10	<5	7	16	<5	ND	ND	0.7	1.2	0.4	8.8
Thallium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	ND	ND	<0.001	<0.001	<0.001	<0.001
Tin	<0.1	<0.03	<0.05	<0.05	<0.05	<0.03	0.06	ND	ND	<0.05	<0.05	<0.06	<0.01
Titanium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	ND	ND	<0.007	<0.007	<0.007	<0.005
Total Dissolved Solids	<5	50	120	66	72	126	17	35	36	11	25	32	78
Vanadium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	ND	ND	<0.005	<0.005	<0.007	<0.005
Zinc	<0.01	0.0	<0.02	<0.02	0.02	0.03	<0.02	ND	0.038	<0.003	<0.003	<0.003	0.005
Acid Base Accounting													
AGP (tons CaCO3/kton)	--	1.3	--	--	--	2.8	--	<0.3	0.31	<0.3	0.3	<0.3	<0.3
ANP (tons CaCO3/kton)	--	164	--	--	--	105	--	130	64	679	533	530	512
NNP (tons CaCO3/kton)		162.7				102.2		130	63.69	679	532.7	530	512
Paste pH (s.u.)	--	--	--	--	--	--	--	--	--	--	--	--	--

Humidity Cell Analytical Results, BIDA-07 / Q1, Sed (1.53 Kg)

Week	Vol. L	Effluent pH	Redox, mV (vs Ag/AgCl)	Conductivity mS/cm	Total Fe mg/l	Total Fe mg/kg	Total Fe Cum. mg/kg	Fe^{2+} mg/l	Fe^{3+} mg/l	SO_4= mg/l	SO_4= mg/kg	SO_4= Cum. mg/kg	Acidity, $CaCO_3$ Equivalents mg/l	Acidity, $CaCO_3$ Equivalents mg/kg	Acidity, $CaCO_3$ Equivalents Cum. mg/kg	Alkalinity, $CaCO_3$ mg/l	Alkalinity, $CaCO_3$ mg/kg	Alkalinity, $CaCO_3$ Cum. mg/kg
0	0.791	7.19	156	0.13	0.28	0.145	0.145	0.15	0.13	8.5	4.39	4.39	8.0	4.14	4.14	10.00	5.17	5.17
1	0.736	7.51	165	0.14	0.04	0.019	0.164	0.02	0.02	3.5	1.68	6.07	0.0	0.00	4.14	18.00	8.66	13.83
2	0.681	7.55	146	0.13	0.09	0.040	0.204	0.03	0.06	11.0	4.90	10.97	2.0	0.89	5.03	14.00	6.23	20.06
3	0.704	7.58	139	0.14	0.03	0.014	0.218	0.00	0.03	1.7	0.78	11.75	0.0	0.00	5.03	16.00	7.36	27.42
4	0.687	7.55	155	0.14	0.02	0.009	0.227	0.00	0.02	1.7	0.76	12.51	0.0	0.00	5.03	16.00	7.18	34.60
5	0.743	7.68	95	0.14	0.06	0.029	0.256	0.01	0.05	1.6	0.78	13.29	0.0	0.00	5.03	14.00	6.80	41.40
6	0.693	7.61	132	0.14	0.05	0.023	0.279	0.04	0.01	2.1	0.95	14.24	0.0	0.00	5.03	18.00	8.15	49.55
7	0.726	7.84	135	0.14	0.01	0.005	0.284	0.00	0.01	0.8	0.38	14.62	4.0	1.90	6.92	18.00	8.54	58.09
8	0.702	7.53	138	0.14	0.00	0.000	0.284	0.00	0.00	0.7	0.32	14.94	2.0	0.92	7.84	16.00	7.34	65.43
9	0.727	7.67	143	0.14	0.03	0.014	0.298	0.01	0.02	0.7	0.33	15.27	6.0	2.85	10.69	18.00	8.55	73.98
10	0.710	7.91	181	0.14	0.04	0.019	0.317	0.00	0.04	2.1	0.97	16.24	0.0	0.00	10.69	20.00	9.28	83.26
11	0.730	8.71	160	0.14	0.02	0.010	0.327	0.00	0.02	1.1	0.52	16.76	0.0	0.00	10.69	20.00	9.54	92.80
12	0.729	8.71	137	0.14	0.05	0.024	0.351	0.03	0.02	0.8	0.38	17.14	0.0	0.00	10.69	20.00	9.53	102.33
13	0.704	8.38	111	0.14	0.05	0.023	0.374	0.03	0.02	3.8	1.75	18.89	0.0	0.00	10.69	16.00	7.36	109.69
14	0.723	8.39	95	0.14	0.03	0.014	0.388	0.02	0.01	0.5	0.24	19.13	0.0	0.00	10.69	16.00	7.56	117.25
15	0.748	8.34	154	0.14	0.04	0.020	0.408	0.02	0.02	1.4	0.68	19.81	0.0	0.00	10.69	20.00	9.78	127.03
16	0.688	8.07	110	0.13	0.01	0.004	0.412	0.00	0.01	0.5	0.22	20.03	4.0	1.80	12.49	14.00	6.30	133.33
17	0.691	7.87	176	0.12	0.08	0.036	0.448	0.01	0.07	2.1	0.95	20.98	0.0	0.00	12.49	16.00	7.23	140.56
18	0.632	8.15	146	0.13	0.07	0.029	0.477	0.02	0.05	1.2	0.50	21.48	0.0	0.00	12.49	16.00	6.61	147.17
19	0.665	7.76	156	0.13	0.08	0.035	0.512	0.03	0.05	2.3	1.00	22.48	0.0	0.00	12.49	16.00	6.95	154.12
20	0.665	7.82	175	0.12	0.38	0.165	0.677	0.29	0.09	12.3	5.35	27.83	2.0	0.87	13.36	14.00	6.08	160.20

ENDED

Profile I Analytical Results, Humidity Cell Extracts, Bald Mountain BIDA-07/Q1, SED

	Extract					
Analysis, mg/L	Week 0	Weeks 1-4	Weeks 5-8	Weeks 9-12	Weeks 13-16	Weeks 17-20
Alkalinity, $CaCO_3$	15.4	17.6	19.3	19.8	17.0	15.3
CO_3, $CaCO_3$	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
HCO_3	15.4	17.6	19.3	19.8	17.0	15.3
Aluminum	0.12	0.09	0.11	<0.080	<0.080	0.237
Antimony	<0.0030	<0.0030	<0.0030	<0.00300	<0.00300	<0.00300
Arsenic	0.0235	0.0343	0.0341	0.0345	0.0329	0.0285
Barium	0.215	0.196	0.0914	0.0393	0.0346	0.144
Beryllium	<0.0020	<0.0020	<0.0020	<0.00200	<0.00200	<0.00200
Boron	0.386	1.02	1.17	1.12	1.03	0.930
Cadmium	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	3.42	1.5	1.32	1.15	0.915	0.734
Chloride	2.98	0.57	0.30	<0.200	0.320	<0.200
Chromium	<0.006	<0.006	<0.006	<0.0060	<0.0060	<0.0060
Copper	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Fluoride	0.72	0.72	0.710	0.726	0.736	0.704
Iron	<0.06	<0.06	<0.06	<0.06	<0.060	<0.060
Lead	<0.0030	<0.0030	<0.0030	<0.0030	<0.00300	<0.00300
Magnesium	0.28	0.21	0.19	0.171	0.167	0.127
Manganese	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	0.0043
Mercury	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Nickel	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Nitrate & Nitrite as N	0.74	0.15	0.056	0.0419	0.0558	0.0717
pH, stu	6.6	7.8	7.11	7.33	6.52	6.23
Potassium	0.69	0.58	0.57	<0.50	<0.50	<0.50
Selenium	<0.0030	<0.0030	<0.0030	<0.0030	<0.00300	<0.00300
Silver	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050
Sodium	11.3	10	8.90	8.26	7.67	9.27
Sulfate	13.2	7.19	2.67	2.20	1.92	4.61
Thallium	<0.00200	<0.00200	<0.00100	<0.00100	<0.00100	<0.00100
Total Dissolved Solids	48	49	29	31	46	51
Zinc	<0.010	<0.010	0.016	<0.010	<0.0100	<0.0100
Cations, meq/L	0.71	0.55	0.50	0.74	0.68	0.48
Anions, meq/L	0.75	0.57	0.50	0.48	0.43	0.47
Balance, %	-2.74	-1.79	0.00	21.19	22.32	1.41
SVL ID #	129595	130179	130776	W700972	W701470	W702043

Humidity Cell Analytical Results, BIDA-Int Q4 (1.832 Kg)

Week	Vol. L	Effluent pH	Redox, mV (vs Ag/AgCl)	Conductivity mS/cm	Total Fe mg/l	Total Fe mg/kg	Total Fe Cum. mg/kg	Fe^{2+} mg/l	Fe^{3+} mg/l	SO_4= mg/l	SO_4= mg/kg	SO_4= Cum. mg/kg	Acidity, $CaCO_3$ Equivalents mg/l	Acidity, $CaCO_3$ Equivalents mg/kg	Acidity, $CaCO_3$ Equivalents Cum. mg/kg	Alkalinity, $CaCO_3$ mg/l	Alkalinity, $CaCO_3$ mg/kg	Alkalinity, $CaCO_3$ Cum. mg/kg
0	0.737	7.57	160	0.12	0.02	0.008	0.008	0.01	0.01	1.5	0.60	0.60	2.0	0.81	0.81	8.00	3.22	3.22
1	0.717	7.24	147	0.13	0.00	0.000	0.008	0.00	0.00	1.3	0.51	1.11	6.0	2.35	3.15	12.00	4.70	7.92
2	0.731	7.95	107	0.14	0.00	0.000	0.008	0.00	0.00	0.9	0.36	1.47	2.0	0.80	3.95	18.00	7.18	15.10
3	0.718	7.97	188	0.14	0.00	0.000	0.008	0.00	0.00	7.7	3.02	4.49	4.0	1.57	5.52	16.00	6.27	21.37
4	0.726	7.67	122	0.14	0.00	0.000	0.008	0.00	0.00	2.2	0.87	5.36	0.0	0.00	5.52	16.00	6.34	27.71
5	0.699	7.57	102	0.14	0.00	0.000	0.008	0.00	0.00	1.3	0.50	5.86	0.0	0.00	5.52	18.00	6.87	34.58
6	0.706	7.38	116	0.13	0.02	0.008	0.016	0.01	0.01	1.5	0.58	6.44	0.0	0.00	5.52	16.00	6.17	40.75
7	0.722	7.37	108	0.13	0.03	0.012	0.028	0.00	0.03	0.5	0.20	6.64	0.0	0.00	5.52	18.00	7.09	47.84
8	0.714	7.58	109	0.13	0.01	0.004	0.032	0.00	0.01	1.0	0.39	7.03	0.0	0.00	5.52	14.00	5.46	53.30
9	0.710	7.43	117	0.13	0.04	0.016	0.048	0.00	0.04	0.2	0.08	7.11	0.0	0.00	5.52	18.00	6.98	60.28
10	0.724	7.84	115	0.13	0.01	0.004	0.052	0.00	0.01	0.6	0.24	7.35	0.0	0.00	5.52	18.00	7.11	67.39
11	0.688	7.96	100	0.13	0.01	0.004	0.056	0.00	0.01	0.5	0.19	7.54	2.0	0.75	6.27	14.00	5.26	72.65
12	0.742	8.18	73	0.13	0.04	0.016	0.072	0.00	0.04	0.4	0.16	7.70	0.0	0.00	6.27	18.00	7.29	79.94
13	0.662	7.78	103	0.13	0.00	0.000	0.072	0.00	0.00	0.5	0.18	7.88	6.0	2.17	8.44	16.00	5.78	85.72
14	0.686	7.70	142	0.13	0.02	0.007	0.079	0.00	0.02	1.1	0.41	8.29	6.0	2.25	10.69	16.00	5.99	91.71
15	0.664	7.87	110	0.13	0.01	0.004	0.083	0.00	0.01	0.3	0.11	8.40	8.0	2.90	13.59	18.00	6.52	98.23
16	0.673	7.90	134	0.13	0.02	0.007	0.090	0.00	0.02	0.5	0.18	8.58	6.0	2.20	15.79	12.00	4.41	102.64
17	0.748	7.66	135	0.13	0.02	0.008	0.098	0.00	0.02	0.6	0.25	8.83	6.0	2.45	18.24	14.00	5.72	108.36
18	0.705	7.93	81	0.13	0.13	0.050	0.148	0.01	0.12	0.4	0.15	8.98	6.0	2.31	20.55	14.00	5.39	113.75
19	0.698	7.70	103	0.13	0.01	0.004	0.152	0.00	0.01	1.1	0.42	9.40	6.0	2.29	22.84	14.00	5.33	119.08
20	0.690	7.86	113	0.13	0.01	0.004	0.156	0.01	0.00	0.0	0.00	9.40	2.0	0.75	23.59	14.00	5.27	124.35
21	0.724	8.09	125	0.13	0.01	0.004	0.160	0.00	0.01	0.0	0.00	9.40	0.0	0.00	23.59	18.00	7.11	131.46
22	0.645	7.87	119	0.13	0.00	0.000	0.160	0.00	0.00	0.2	0.07	9.47	6.0	2.11	25.70	12.00	4.23	135.69

Humidity Cell Analytical Results, SAGA Waste - 6975 (1.794 Kg)

					Total Fe					SO_4=			Acidity, $CaCO_3$ Equivalents			Alkalinity, $CaCO_3$		
Week	Vol. L	Effluent pH	Redox, mV (vs Ag/AgCl)	Conductivity mS/cm	mg/l	mg/kg	Cum. mg/kg	Fe^{2}+ mg/l	Fe^{3}+ mg/l	mg/l	mg/kg	Cum. mg/kg	mg/l	mg/kg	Cum. mg/kg	mg/l	mg/kg	Cum. mg/kg
0	0.679	8.07	90	0.20	0.05	0.019	0.019	0.05	0.00	10.0	3.78	3.78	0.0	0.00	0.00	324.00	122.63	122.63
1	0.676	9.53	141	0.18	0.62	0.234	0.253	0.05	0.57	10.0	3.77	7.55	0.0	0.00	0.00	42.00	15.83	138.46
2	0.703	8.37	118	0.16	0.07	0.027	0.280	0.03	0.04	4.6	1.80	9.35	0.0	0.00	0.00	42.00	16.46	154.92
3	0.691	8.45	145	0.17	0.09	0.035	0.315	0.03	0.06	1.8	0.69	10.04	0.0	0.00	0.00	42.00	16.18	171.10
4	0.678	8.32	114	0.16	0.10	0.038	0.353	0.06	0.04	2.0	0.76	10.80	0.0	0.00	0.00	46.00	17.38	188.48
5	0.681	8.29	154	0.16	0.11	0.042	0.395	0.04	0.07	2.7	1.02	11.82	0.0	0.00	0.00	42.00	15.94	204.42
6	0.590	7.96	179	0.17	0.14	0.046	0.441	0.07	0.07	9.3	3.06	14.88	0.0	0.00	0.00	94.00	30.91	235.33
7	0.669	7.51	159	0.17	0.36	0.134	0.575	0.08	0.28	6.9	2.57	17.45	0.0	0.00	0.00	60.00	22.37	257.70
8	0.689	7.46	151	0.16	3.56	1.367	1.942	0.14	3.42	22.7	8.72	26.17	0.0	0.00	0.00	42.00	16.13	273.83
9	0.699	7.27	144	0.16	0.10	0.039	1.981	0.05	0.05	4.1	1.60	27.77	0.0	0.00	0.00	56.00	21.82	295.65
10	0.718	7.66	163	0.17	0.09	0.036	2.017	0.04	0.05	3.6	1.44	29.21	0.0	0.00	0.00	58.00	23.21	318.86
11	0.749	7.63	152	0.17	0.12	0.050	2.067	0.10	0.02	4.9	2.05	31.26	0.0	0.00	0.00	60.00	25.05	343.91
12	0.706	7.47	131	0.15	0.10	0.039	2.106	0.04	0.06	2.2	0.87	32.13	0.0	0.00	0.00	54.00	21.25	365.16
13	0.659	7.54	146	0.16	0.41	0.151	2.257	0.11	0.30	8.2	3.01	35.14	0.0	0.00	0.00	60.00	22.04	387.20
14	0.684	7.46	160	0.15	0.09	0.034	2.291	0.06	0.03	2.5	0.95	36.09	0.0	0.00	0.00	48.00	18.30	405.50
15	0.706	7.52	138	0.15	0.09	0.035	2.326	0.09	0.00	2.3	0.91	37.00	0.0	0.00	0.00	42.00	16.53	422.03
16	0.661	7.47	158	0.14	0.14	0.052	2.378	0.07	0.07	2.2	0.81	37.81	0.0	0.00	0.00	56.00	20.63	442.66
17	0.702	7.31	153	0.15	0.20	0.078	2.456	0.06	0.14	7.6	2.97	40.78	0.0	0.00	0.00	42.00	16.43	459.09
18	0.663	7.29	148	0.15	0.05	0.018	2.474	0.03	0.02	33.7	12.45	53.23	0.0	0.00	0.00	60.00	22.17	481.26
19	0.702	7.29	144	0.16	0.19	0.074	2.548	0.04	0.15	5.4	2.11	55.34	0.0	0.00	0.00	64.00	25.04	506.30
20	0.613	7.63	178	0.17	0.05	0.017	2.565	0.05	0.00	3.4	1.16	56.50	0.0	0.00	0.00	70.00	23.92	530.22
	ENDED																	

Profile I Analytical Results, Humidity Cell Extracts,
Bald Mountain Saga Waste - 6975

	Extract					
Analysis, mg/L	Week 0	Weeks 1-4	Weeks 5-8	Weeks 9-12	Weeks 13-16	Weeks 17-20
Alkalinity, $CaCO_3$	55.8	38.9	36.8	45.7	42.2	39.3
CO_3, $CaCO_3$	<1.0	8.1	<1.0	<1.0	<1.0	<1.0
HCO_3	55.8	30.8	<1.0	45.7	42.2	39.3
Aluminum	<0.080	0.327	0.951	0.213	0.153	0.126
Antimony	0.0122	0.00929	0.00990	0.00875	0.00678	0.0104
Arsenic	0.0435	0.0429	0.0398	0.0406	0.0298	0.0355
Barium	0.279	0.158	0.165	0.153	0.151	0.145
Beryllium	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Boron	0.168	1.07	1.11	1.45	0.997	1.08
Cadmium	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	19.2	6.93	7.17	8.39	6.72	7.29
Chloride	2.84	1.33	0.363	<0.200	<0.200	<0.200
Chromium	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Copper	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Fluoride	1.04	0.843	0.899	0.989	0.714	0.977
Iron	<0.060	0.131	0.164	0.062	0.064	<0.060
Lead	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300
Magnesium	3.17	1.19	1.30	1.22	1.07	1.21
Manganese	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Mercury	0.00066	0.0003	0.00052	0.00022	<0.00020	<0.00020
Nickel	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Nitrate & Nitrite as N	6.38	1.52	1.74	1.03	0.444	0.196
pH, stu	7.35	8.72	7.20	7.70	7.85	6.60
Potassium	4.87	2.11	2.24	1.70	1.30	1.39
Selenium	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300
Silver	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	11.8	12.1	11.3	11.8	8.08	8.77
Sulfate	11.9	5.47	4.27	2.84	1.84	2.76
Thallium	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Total Dissolved Solids	100	78	85	81	96	78
Zinc	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Cations, meq/L	1.91	1.36	1.12	1.10	0.83	0.90
Anions, meq/L	1.95	1.08	1.03	1.13	0.97	0.93
Balance, %	-1.18	11.39	4.17	-1.24	-8.01	-2.01
SVL ID #	W701261	W701664	W702190	W702657	W703192	W800335

Humidity Cell Analytical Results, SWF-SED-OX (1.53 Kg)

Week	Vol. L	Effluent pH	Redox, mV (vs Ag/AgCI)	Conductivity mS/cm	Total Fe mg/l	Total Fe mg/kg	Total Fe Cum. mg/kg	Fe2+ mg/l	Fe3+ mg/l	SO4= mg/l	SO4= mg/kg	SO4= Cum. mg/kg	Acidity, CaCO3 mg/l	Acidity, CaCO3 mg/kg	Acidity, CaCO3 Cum. mg/kg	Alkalinity, CaCO3 mg/l	Alkalinity, CaCO3 mg/kg	Alkalinity, CaCO3 Cum. mg/kg
0	0.741	5.45	138	0.15	0.64	0.309	0.309	0.25	0.39	11.0	5.31	5.31	8.0	3.87	3.87	8.00	3.86	3.86
1	0.710	7.04	163	0.13	0.16	0.074	0.383	0.07	0.09	5.5	2.55	7.86	4.0	1.85	5.72	8.00	3.70	7.56
2	0.642	7.04	131	0.15	0.25	0.105	0.488	0.09	0.16	12.5	5.23	13.09	2.0	0.84	6.55	14.00	5.86	13.42
3	0.711	7.11	141	0.15	0.32	0.148	0.636	0.13	0.19	8.5	3.94	17.03	0.0	0.00	6.55	18.00	8.34	21.76
4	0.730	6.89	127	0.14	0.50	0.238	0.874	0.31	0.19	14.1	6.71	23.74	0.0	0.00	6.55	18.00	8.57	30.33
5	0.665	6.84	126	0.15	0.19	0.082	0.956	0.12	0.07	8.3	3.60	27.34	2.0	0.87	7.42	16.00	6.94	37.27
6	0.635	7.23	200	0.15	0.32	0.132	1.088	0.23	0.09	12.8	5.30	32.64	0.0	0.00	7.42	18.00	7.45	44.72
7	0.691	6.97	236	0.14	0.37	0.167	1.255	0.23	0.14	9.5	4.28	36.92	0.0	0.00	7.42	18.00	8.11	52.83
8	0.685	7.43	200	0.14	0.47	0.210	1.465	0.21	0.26	9.2	4.11	41.03	0.0	0.00	7.42	18.00	8.04	60.87
9	0.728	8.02	198	0.13	0.52	0.247	1.712	0.22	0.30	10.0	4.75	45.78	4.0	1.90	9.32	12.00	5.70	66.57
10	0.578	8.51	233	0.13	0.42	0.158	1.870	0.25	0.17	10.4	3.92	49.70	0.0	0.00	9.32	16.00	6.03	72.60
10	0.578	8.51	233	0.13	0.42	0.158	1.87	0.25	0.17	10.4	3.92	49.7	0.0	0.0	9.32	16	6.03	72.6
11	0.724	8.27	223	0.13	0.58	0.274	2.144	0.21	0.37	9.6	4.53	54.23	0.0	0.0	9.32	14	6.61	79.21
12	0.682	7.82	207	0.14	0.15	0.067	2.211	0.11	0.04	5.6	2.49	56.72	0.0	0.0	9.32	12	5.34	84.55
13	0.643	7.31	205	0.14	0.26	0.109	2.32	0.14	0.12	10.2	4.28	61	0.0	0.0	9.32	12	5.03	89.58
14	0.697	7.67	156	0.13	0.27	0.123	2.443	0.16	0.11	8.9	4.04	65.04	0.0	0.0	9.32	14	6.36	95.94
15	0.681	8.23	238	0.13	0.48	0.213	2.656	0.26	0.22	11.1	4.93	69.97	0.0	0.0	9.32	14	6.22	102.2
16	0.727	8.07	203	0.15	0.43	0.204	2.86	0.25	0.18	10.7	5.07	75.04	0.0	0.0	9.32	12	5.69	107.9
17	0.655	8.22	190	0.13	0.27	0.115	2.975	0.12	0.15	9.6	4.1	79.14	0.0	0.0	9.32	12	5.12	113
18	0.646	8.32	196	0.13	0.24	0.101	3.076	0.19	0.05	9.7	4.09	83.23	0.0	0.0	9.32	12	5.05	118
19	0.693	7.99	203	0.14	0.27	0.122	3.198	0.18	0.09	6.7	3.03	86.26	0.0	0.0	9.32	16	7.23	125.3
20	0.696	7.58	210	0.13	0.18	0.082	3.28	0.08	0.1	6.2	2.81	89.07	0.0	0.0	9.32	12	5.45	130.7

END

Profile I Analytical Results, Humidity Cell Extract,
Bald Mountain SWF-SED-OX

	Extract Week					
Analysis, mg/L	Week 0	Weeks 1-4	Weeks 5-8	Weeks 9-12	Weeks 13-16	Weeks 17-20
Alkalinity, $CaCO_3$	12	11.0	16.5	12.1	11.8	10.4
CO_3, $CaCO_3$	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
HCO_3	12	11.0	16.5	12.1	11.8	10.4
Aluminum	6.64	2.49	6.59	0.926	2.4	2.03
Antimony	0.00304	<0.00300	0.00427	<0.00300	<0.00300	<0.00300
Arsenic	0.0378	0.0201	0.0522	0.0194	0.0199	0.0225
Barium	0.346	0.303	0.388	0.189	0.4	0.342
Beryllium	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Boron	0.52	0.092	0.112	0.042	0.092	0.086
Cadmium	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	6.21	4.76	5.08	3.97	4.28	4.09
Chloride	2.25	0.998	0.246	<0.200	0.341	0.229
Chromium	0.0102	<0.0060	0.0087	<0.0060	<0.0060	<0.0060
Copper	0.012	<0.010	<0.010	<0.010	<0.010	<0.010
Fluoride	0.613	0.276	0.305	0.224	0.213	0.12
Iron	1.99	0.856	2.63	0.354	0.855	0.717
Lead	<0.00300	<0.00300	0.00334	<0.00300	<0.00300	<0.00300
Magnesium	2.04	1.17	1.81	0.760	0.986	0.917
Manganese	0.0057	0.0055	0.0114	0.0047	0.0041	0.0113
Mercury	0.00032	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Nickel	0.017	<0.010	0.023	<0.010	<0.010	<0.010
Nitrate / Nitrite as N	1.44	0.495	0.0819	<0.0500	<0.0500	<0.0500
pH, stu	6.13	6.60	7.15	7.54	6.32	7.04
Potassium	4.03	1.64	3.14	0.91	1.39	1.35
Selenium	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300
Silver	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	19.9	5.59	4.93	1.82	3.92	3.51
Sulfate	45.3	12.0	12.5	6.73	9.92	8.56
Thallium	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Total Dissolved Solids	79	120	130	63	100	88
Zinc	0.0581	0.0362	0.0738	0.0160	0.0244	0.0224
Cations, meq/L	2.26	0.93	1.53	0.48	0.81	0.72
Anions, meq/L	1.39	0.55	0.62	0.39	0.47	0.40
Balance, %	23.80	25.80	42.32	9.98	26.74	28.75
SVL Report#	W801779	W802503	W803228	W803881	W804595	W8I0021

Humidity Cell Analytical Results, SG-1009 50-100 (1.444 Kg)

					Total Fe					SO_4=			Acidity, $CaCO_3$ Equivalents			Alkalinity, $CaCO_3$ Equivalent		
Week	Vol. L	Effluent pH	Redox, mV (vs Ag/AgCI)	Conductivity mS/cm	mg/l	mg/kg	Cum. mg/kg	Fe^{2}+ mg/l	Fe^{3}+ mg/l	mg/l	mg/kg	Cum. mg/kg	mg/l	mg/kg	Cum. mg/kg	mg/l	mg/kg	Cum. mg/kg
0	0.758	8.35	183	0.26	0.04	0.021	0.021	0.02	0.02	48.5	25.46	25.46	0.0	0.00	0.00	52.00	27.30	27.30
1	0.741	8.10	202	0.19	0.03	0.015	0.036	0.01	0.02	16.5	8.47	33.93	0.0	0.00	0.00	54.00	27.71	55.01
2	0.814	8.14	208	0.17	0.13	0.073	0.109	0.04	0.09	9.4	5.30	39.23	0.0	0.00	0.00	26.00	14.66	69.67
3	0.696	8.53	210	0.15	0.03	0.014	0.123	0.02	0.01	4.0	1.93	41.16	0.0	0.00	0.00	32.00	15.42	85.09
4	0.742	8.17	229	0.16	0.08	0.041	0.164	0.02	0.06	3.6	1.85	43.01	0.0	0.00	0.00	36.00	18.50	103.59
5	0.750	8.19	232	0.16	0.06	0.031	0.195	0.01	0.05	2.5	1.30	44.31	0.0	0.00	0.00	36.00	18.70	122.29
6	0.755	7.98	245	0.15	0.03	0.016	0.211	0.03	0.00	4.5	2.35	46.66	0.0	0.00	0.00	32.00	16.73	139.02
7	0.781	7.95	224	0.16	0.06	0.032	0.243	0.01	0.05	2.4	1.30	47.96	0.0	0.00	0.00	36.00	19.47	158.49
8	0.678	8.01	270	0.15	0.10	0.047	0.290	0.00	0.10	0.9	0.42	48.38	0.0	0.00	0.00	36.00	16.90	175.39
9	0.726	8.11	261	0.15	0.02	0.010	0.300	0.00	0.02	0.8	0.40	48.78	0.0	0.00	0.00	32.00	16.09	191.48
10	0.683	8.17	293	0.14	0.04	0.019	0.319	0.00	0.04	0.5	0.24	49.02	0.0	0.00	0.00	30.00	14.19	205.67
11	0.740	8.22	233	0.14	0.00	0.000	0.319	0.00	0.00	1.1	0.56	49.58	0.0	0.00	0.00	32.00	16.40	222.07
12	0.651	8.43	229	0.15	0.13	0.059	0.378	0.03	0.10	1.4	0.63	50.21	0.0	0.00	0.00	30.00	13.52	235.59
13	0.723	8.32	219	0.15	0.03	0.015	0.393	0.01	0.02	1.5	0.75	50.96	0.0	0.00	0.00	34.00	17.02	252.61
14	0.722	8.38	212	0.15	0.04	0.020	0.413	0.01	0.03	0.4	0.20	51.16	0.0	0.00	0.00	34.00	17.00	269.61
15	0.732	8.25	237	0.15	0.04	0.020	0.433	0.03	0.01	1.0	0.51	51.67	0.0	0.00	0.00	34.00	17.24	286.85
16	0.811	8.34	225	0.15	0.11	0.062	0.495	0.02	0.09	1.4	0.79	52.46	0.0	0.00	0.00	36.00	20.22	307.07
17	0.628	8.45	208	0.15	0.19	0.083	0.578	0.01	0.18	1.7	0.74	53.20	0.0	0.00	0.00	32.00	13.92	320.99
18	0.703	8.21	201	0.15	0.05	0.024	0.602	0.02	0.03	1.1	0.54	53.74	0.0	0.00	0.00	32.00	15.58	336.57
19	0.689	8.05	192	0.15	0.05	0.024	0.626	0.01	0.04	0.5	0.24	53.98	0.0	0.00	0.00	30.00	14.31	350.88
20	0.734	8.39	189	0.15	0.05	0.025	0.651	0.01	0.04	0.3	0.15	54.13	0.0	0.00	0.00	32.00	16.27	367.15
21	0.666	8.32	181	0.15	0.07	0.032	0.683	0.02	0.05	0.7	0.32	54.45	0.0	0.00	0.00	28.00	12.91	380.06
22	0.798	8.11	182	0.15	0.05	0.028	0.711	0.01	0.04	0.3	0.17	54.62	0.0	0.00	0.00	28.00	15.47	395.53
23	0.683	8.18	176	0.15	0.06	0.028	0.739	0.03	0.03	0.9	0.43	55.05	0.0	0.00	0.00	28.00	13.24	408.77
24	0.711	8.50	191	0.15	0.08	0.039	0.778	0.01	0.07	0.9	0.44	55.49	0.0	0.00	0.00	28.00	13.79	422.56
25	0.716	8.21	177	0.15	0.05	0.025	0.803	0.00	0.05	0.3	0.15	55.64	0.0	0.00	0.00	28.00	13.88	436.44
26	0.747	8.12	186	0.15	0.07	0.036	0.839	0.03	0.04	0.1	0.05	55.69	0.0	0.00	0.00	28.00	14.48	450.92

Profile II Analytical Results, Humidity Cell Extracts,
Bald Mountain ARD Study, SG-1009 50'-100'

	Extract						
Analysis, mg/L	Week 0	Wks 1-4	Wks 5-8	Wks 9-12	Wks 13-16	Wks 17-20	Wks 21-24
Alkalinity, $CaCO_3$	45.9	38.1	31.7	28.6	33.4	28.6	23.5
CO_3, $CaCO_3$	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
HCO_3	45.9	38.1	31.7	28.6	33.4	28.6	23.5
Aluminum	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080
Antimony	0.0598	0.0555	0.0444	0.0263	0.0249	0.0176	0.014
Arsenic	0.0948	0.104	0.0953	0.0622	0.066	0.0519	0.0425
Barium	0.183	0.17	0.381	0.502	0.573	0.583	0.593
Beryllium	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Bismuth	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060
Boron	0.057	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Cadmium	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	14.3	8.77	11	8.84	10.5	9.5	8.48
Chloride	5.36	0.553	<0.200	0.318	0.26	<0.200	<0.200
Chromium	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Cobalt	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Copper	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Fluoride	1.77	0.268	0.141	0.116	<0.100	<0.100	<0.100
Gallium	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Iron	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060
Lead	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300
Lithium	0.02	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Magnesium	1.25	0.896	0.69	0.45	0.421	0.323	0.292
Manganese	0.0044	0.0063	0.0118	<0.0040	<0.0040	<0.0040	<0.0040
Mercury	0.00092	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	0.0414	0.0498	0.0189	0.0093	<0.0080	<0.0080	<0.0080
Nickel	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Nitrate/Nitrite as N	0.395	<0.0500	<0.0500	<0.0500	<0.0500	0.164	0.704
pH, stu	7.92	7.77	7.69	7.39	7.54	6.94	7.27
Phosphorus	0.095	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium	2.98	0.58	<0.50	<0.50	<0.50	<0.50	<0.50
Scandium	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Selenium	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Silver	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	35.8	7.01	1.16	0.97	<0.50	<0.50	<0.50
Strontium	0.0403	0.039	0.0434	0.0368	0.0366	0.0302	0.0254
Sulfate	59.9	11.8	3.33	3.38	1.96	1.68	1.51
Thallium	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Tin	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Titanium	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Total Dissolved Solids	160	80	70	23	43	44	48
Vanadium	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zinc	<0.0100	0.013	0.0122	<0.0100	<0.0100	<0.0100	<0.0100
Cations, meq/L	2.46	0.84	0.67	0.53	0.57	0.51	0.46
Anions, meq/L	2.44	1.04	0.71	0.66	0.72	0.62	0.55
Balance, %	0.43	-10.59	-3.14	-10.61	-11.31	-9.49	-9.28
SVL Report #	W8J0492	W8K0395	W8L0308	W9A0143	W9B0138	W9C0158	W9D0158

Humidity Cell Analytical Results, SG-1043, 40-80 (1.446 Kg)

					Total Fe					SO_4=			Acidity, as $CaCO_3$			Alkalinity, as $CaCO_3$		
Week	Vol. L	Effluent pH	Redox, mV (vs Ag/AgCI)	Conductivity mS/cm	mg/l	mg/kg	Cum. mg/kg	Fe^{2}+ mg/l	Fe^{3}+ mg/l	mg/l	mg/kg	Cum. mg/kg	mg/l	mg/kg	Cum. mg/kg	mg/l	mg/kg	Cum. mg/kg
0	0.512	7.95	195	0.24	0.08	0.028	0.028	0.04	0.04	33.3	11.79	11.79	0.0	0.00	0.00	60.00	21.24	21.24
1	0.504	7.85	243	0.16	0.03	0.010	0.038	0.02	0.01	6.7	2.34	14.13	0.0	0.00	0.00	24.00	8.37	29.61
2	0.584	7.88	245	0.16	0.06	0.024	0.062	0.02	0.04	8.9	3.59	17.72	0.0	0.00	0.00	26.00	10.50	40.11
3	0.762	8.22	245	0.17	0.02	0.011	0.073	0.02	0.00	6.5	3.43	21.15	0.0	0.00	0.00	30.00	15.81	55.92
4	0.807	8.01	257	0.15	0.12	0.067	0.140	0.01	0.11	4.7	2.62	23.77	0.0	0.00	0.00	20.00	11.16	67.08
5	0.690	8.08	240	0.15	0.03	0.014	0.154	0.03	0.00	4.4	2.10	25.87	0.0	0.00	0.00	22.00	10.50	77.58
6	0.658	7.95	255	0.15	0.00	0.000	0.154	0.00	0.00	0.7	0.32	26.19	0.0	0.00	0.00	18.00	8.19	85.77
7	0.746	7.80	235	0.15	0.04	0.021	0.175	0.00	0.04	4.2	2.17	28.36	0.0	0.00	0.00	22.00	11.35	97.12
8	0.699	7.72	286	0.15	0.05	0.024	0.199	0.02	0.03	2.2	1.06	29.42	0.0	0.00	0.00	24.00	11.60	108.72
9	0.691	7.72	286	0.12	0.05	0.024	0.223	0.02	0.03	1.5	0.72	30.14	0.0	0.00	0.00	16.00	7.65	116.37
10	0.653	7.93	242	0.12	0.02	0.009	0.232	0.01	0.01	1.0	0.45	30.59	0.0	0.00	0.00	12.00	5.42	121.79
11	0.754	7.97	248	0.14	0.03	0.016	0.248	0.01	0.02	2.0	1.04	31.63	0.0	0.00	0.00	16.00	8.34	130.13
12	0.655	7.91	257	0.10	0.07	0.032	0.280	0.02	0.05	1.0	0.45	32.08	0.0	0.00	0.00	6.00	2.72	132.85
13	0.693	7.76	253	0.12	0.01	0.005	0.285	0.01	0.00	0.9	0.43	32.51	0.0	0.00	0.00	8.00	3.83	136.68
14	0.740	7.88	245	0.12	0.04	0.020	0.305	0.02	0.02	1.3	0.67	33.18	0.0	0.00	0.00	12.00	6.14	142.82
15	0.695	7.91	270	0.11	0.01	0.005	0.310	0.00	0.01	1.1	0.53	33.71	0.0	0.00	0.00	10.00	4.81	147.63
16	0.711	8.04	253	0.12	0.04	0.020	0.330	0.04	0.00	1.3	0.64	34.35	0.0	0.00	0.00	12.00	5.90	153.53
17	0.688	8.10	254	0.12	0.04	0.019	0.349	0.01	0.03	3.7	1.76	36.11	0.0	0.00	0.00	12.00	5.71	159.24
18	0.712	7.71	216	0.12	0.06	0.030	0.379	0.03	0.03	1.0	0.49	36.60	0.0	0.00	0.00	8.00	3.94	163.18
19	0.695	7.56	230	0.10	0.04	0.019	0.398	0.01	0.03	0.8	0.38	36.98	0.0	0.00	0.00	6.00	2.88	166.06
20	0.688	7.91	232	0.08	0.05	0.024	0.422	0.01	0.04	2.0	0.95	37.93	0.0	0.00	0.00	4.00	1.90	167.96
21	0.684	8.23	233	0.07	0.03	0.014	0.436	0.02	0.01	1.3	0.61	38.54	0.0	0.00	0.00	4.00	1.89	169.85
22	0.728	8.15	234	0.08	0.03	0.015	0.451	0.00	0.03	0.1	0.05	38.59	0.0	0.00	0.00	4.00	2.01	171.86
23	0.672	7.99	220	0.08	0.08	0.037	0.488	0.04	0.04	1.3	0.60	39.19	0.0	0.00	0.00	4.00	1.86	173.72
24	0.663	8.03	231	0.09	0.20	0.092	0.580	0.09	0.11	4.6	2.11	41.30	0.0	0.00	0.00	8.00	3.67	177.39
25	0.666	8.03	249	0.07	0.07	0.032	0.612	0.03	0.04	1.1	0.51	41.81	0.0	0.00	0.00	6.00	2.76	180.15
26	0.679	8.07	249	0.08	0.00	0.000	0.612	0.00	0.00	6.9	3.24	45.05	0.0	0.00	0.00	4.00	1.88	182.03

Profile II Analytical Results, Humidity Cell Extracts,
Bald Mountain ARD Study, SG-1043 40'-80'

	Extract						
Analysis, mg/L	Week 0	Wks 1-4	Wks 5-8	Wks 9-12	Wks 13-16	Wks 17-20	Wks 21-24
Alkalinity, $CaCO_3$	45.3	27.4	19.7	12.2	11.6	6.8	4
CO_3, $CaCO_3$	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
HCO_3	45.3	27.4	19.7	<1.0	<1.0	6.8	4
Aluminum	0.168	<0.080	0.194	0.294	<0.080	<0.080	0.496
Antimony	0.0083	0.00311	0.00368	<0.00300	<0.00300	<0.00300	0.00412
Arsenic	0.0227	0.0139	0.00979	0.00787	0.00652	0.00537	0.0109
Barium	0.277	0.301	0.372	0.291	0.229	0.249	0.26
Beryllium	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Bismuth	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060
Boron	0.162	<0.040	<0.040	<0.040	<0.040	<0.040	0.041
Cadmium	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	15.2	6.53	6.12	3.21	3.01	2.05	1.31
Chloride	9.34	2.5	1.38	0.212	0.552	0.244	<0.200
Chromium	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Cobalt	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Copper	<0.010	<0.010	0.017	<0.010	0.017	<0.010	<0.010
Fluoride	1.27	0.466	0.358	0.196	0.112	0.103	<0.100
Gallium	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Iron	<0.060	<0.060	0.064	0.092	<0.060	<0.060	0.389
Lead	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300
Lithium	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Magnesium	2.29	0.951	0.842	0.441	0.417	0.257	0.186
Manganese	0.024	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Mercury	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	0.0276	0.0178	0.013	<0.0080	<0.0080	<0.0080	<0.0080
Nickel	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Nitrate/Nitrite as N	0.782	<0.0500	0.0659	<0.0500	0.0623	0.146	0.226
pH, stu	7.79	7.36	7.35	7.07	6.96	6.38	6.59
Phosphorus	0.865	0.139	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium	7.18	3.03	2.5	1.09	1.09	0.89	<0.50
Scandium	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Selenium	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Silver	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	22.3	5.81	3.68	2.05	1.22	0.65	1.53
Strontium	0.0804	0.0429	0.0387	0.0226	0.0192	0.0135	0.0164
Sulfate	38.5	10.5	5.75	3.96	2.32	1.7	2.7
Thallium	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Tin	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Titanium	<0.0050	<0.0050	0.0066	0.0064	<0.0050	<0.0050	0.006
Total Dissolved Solids	140	79	67	<10	24	19	48
Vanadium	0.0073	0.0055	<0.0050	<0.0050	<0.0050	<0.0050	0.0054
Zinc	0.0218	<0.0100	<0.0100	<0.0100	0.0122	<0.0100	<0.0100
Cations, meq/L	2.13	0.74	0.63	0.35	0.27	0.18	0.22
Anions, meq/L	2.10	0.86	0.58	0.34	0.31	0.19	0.16
Balance, %	0.75	-7.38	4.50	1.73	-5.95	-3.74	17.48
SVL Report #	W8J0492	W8K0395	W8L0308	W9A0143	W9B0138	W9C0158	W9D0158

Humidity Cell Analytical Results, SG-1054 195'-220' (1.500 Kg)

					Total Fe					SO_4=			Acidity, as $CaCO_3$			Alkalinity, as $CaCO_3$		
Week	Vol. L	Effluent pH	Redox, mV (vs Ag/AgCI)	Conductivity mS/cm	mg/l	mg/kg	Cum. mg/kg	Fe^{2}+ mg/l	Fe^{3}+ mg/l	mg/l	mg/kg	Cum. mg/kg	mg/l	mg/kg	Cum. mg/kg	mg/l	mg/kg	Cum. mg/kg
0	0.789	7.68	207	0.21	0.01	0.005	0.005	0.00	0.01	80.4	42.29	42.29	0.0	0.00	0.00	18.00	9.47	9.47
1	0.675	8.08	197	0.27	0.01	0.005	0.010	0.00	0.01	80.4	36.18	78.47	0.0	0.00	0.00	26.00	11.70	21.17
2	0.634	8.03	177	0.22	0.03	0.013	0.023	0.00	0.03	44.5	18.81	97.28	0.0	0.00	0.00	38.00	16.06	37.23
3	0.728	7.97	216	0.17	0.04	0.019	0.042	0.02	0.02	12.0	5.82	103.10	0.0	0.00	0.00	26.00	12.62	49.85
4	0.726	7.92	227	0.17	0.07	0.034	0.076	0.04	0.03	7.9	3.82	106.92	0.0	0.00	0.00	28.00	13.55	63.40
5	0.782	7.90	231	0.15	0.04	0.021	0.097	0.03	0.01	4.1	2.14	109.06	0.0	0.00	0.00	26.00	13.55	76.95
6	0.755	7.69	252	0.16	0.11	0.055	0.152	0.02	0.09	6.9	3.47	112.53	0.0	0.00	0.00	26.00	13.09	90.04
7	0.736	7.60	250	0.16	0.06	0.029	0.181	0.04	0.02	5.5	2.70	115.23	0.0	0.00	0.00	24.00	11.78	101.82
8	0.717	7.52	251	0.14	0.00	0.000	0.181	0.00	0.00	5.0	2.39	117.62	0.0	0.00	0.00	18.00	8.60	110.42
9	0.734	7.38	251	0.17	0.04	0.020	0.201	0.03	0.01	5.1	2.50	120.12	0.0	0.00	0.00	24.00	11.74	122.16
10	0.755	7.28	285	0.16	0.08	0.040	0.241	0.03	0.05	5.2	2.62	122.74	0.0	0.00	0.00	22.00	11.07	133.23
11	0.725	7.61	271	0.15	0.03	0.015	0.256	0.02	0.01	3.5	1.69	124.43	0.0	0.00	0.00	20.00	9.67	142.90
12	0.712	8.13	216	0.14	0.05	0.024	0.280	0.03	0.02	3.6	1.71	126.14	0.0	0.00	0.00	22.00	10.44	153.34
13	0.750	7.76	218	0.15	0.06	0.030	0.310	0.03	0.03	5.0	2.50	128.64	0.0	0.00	0.00	26.00	13.00	166.34
14	0.726	8.06	222	0.15	0.06	0.029	0.339	0.03	0.03	8.4	4.07	132.71	0.0	0.00	0.00	22.00	10.65	176.99
15	0.694	7.96	235	0.16	0.07	0.032	0.371	0.04	0.03	4.4	2.04	134.75	0.0	0.00	0.00	22.00	10.18	187.17
16	0.757	8.02	227	0.14	0.07	0.035	0.406	0.03	0.04	3.9	1.97	136.72	0.0	0.00	0.00	14.00	7.07	194.24
17	0.738	8.04	270	0.15	0.05	0.025	0.431	0.04	0.01	3.7	1.82	138.54	0.0	0.00	0.00	18.00	8.86	203.10
18	0.770	8.05	263	0.15	0.08	0.041	0.472	0.04	0.04	4.4	2.26	140.80	0.0	0.00	0.00	18.00	9.24	212.34
19	0.722	7.74	226	0.16	0.05	0.024	0.496	0.03	0.02	3.0	1.44	142.24	0.0	0.00	0.00	16.00	7.70	220.04
20	0.723	7.91	225	0.15	0.05	0.024	0.520	0.04	0.01	3.8	1.83	144.07	0.0	0.00	0.00	16.00	7.71	227.75
21	0.767	7.69	228	0.16	0.05	0.026	0.546	0.02	0.03	4.0	2.05	146.12	0.0	0.00	0.00	22.00	11.25	239.00
22	0.728	7.51	221	0.14	0.08	0.039	0.585	0.05	0.03	6.5	3.15	149.27	0.0	0.00	0.00	16.00	7.77	246.77
23	0.734	7.74	219	0.13	0.05	0.024	0.609	0.05	0.00	4.4	2.15	151.42	0.0	0.00	0.00	16.00	7.83	254.60
24	0.736	7.93	217	0.13	0.09	0.044	0.653	0.06	0.03	3.1	1.52	152.94	0.0	0.00	0.00	12.00	5.89	260.49
25	0.732	8.19	206	0.13	0.07	0.034	0.687	0.04	0.03	2.9	1.42	154.36	0.0	0.00	0.00	16.00	7.81	268.30
26	0.738	8.19	216	0.13	0.08	0.039	0.726	0.05	0.03	5.3	2.61	156.97	0.0	0.00	0.00	12.00	5.90	274.20
27	0.712	8.18	218	0.13	0.07	0.033	0.759	0.05	0.02	3.0	1.42	158.39	0.0	0.00	0.00	12.00	5.70	279.90
28	0.751	7.92	229	0.13	0.07	0.035	0.794	0.00	0.07	2.7	1.35	159.74	0.0	0.00	0.00	10.00	5.01	284.91

Profile II Analytical Results, Humidity Cell Extracts,
Bald Mountain ARD Study, SG-1054 195'-220'

	Extract						
Analysis, mg/L	Week 0	Wks 1-4	Wks 5-8	Wks 9-12	Wks 13-16	Wks 17-20	Wks 21-24
Alkalinity, $CaCO_3$	11.9	28.7	18	40.5	18.9	14.7	12.7
CO_3, $CaCO_3$	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
HCO_3	11.9	28.7	18	40.5	18.9	14.7	12.7
Aluminum	<0.080	<0.080	0.126	0.086	<0.080	<0.080	0.09
Antimony	0.00357	0.00714	0.00487	0.00345	0.0045	0.00446	0.00401
Arsenic	<0.00300	0.0107	0.00544	0.00363	0.00317	0.00426	0.00322
Barium	0.236	0.158	0.264	0.184	0.304	0.327	0.35
Beryllium	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Bismuth	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060
Boron	0.097	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Cadmium	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	19.6	18.4	7.94	10.4	7.46	6.47	5.9
Chloride	7.07	2.11	<0.200	0.295	0.262	<0.200	<0.200
Chromium	0.0124	0.0065	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Cobalt	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Copper	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Fluoride	0.485	0.592	0.251	0.272	0.365	0.53	0.229
Gallium	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Iron	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060
Lead	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300
Lithium	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Magnesium	2.44	2.22	0.912	6.04	0.826	0.685	0.598
Manganese	0.0055	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Mercury	<0.00026	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	0.0115	0.0203	0.0101	0.0243	0.0083	<0.0080	<0.0080
Nickel	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Nitrate/Nitrite as N	0.674	0.133	<0.0500	0.106	<0.100	<0.0500	<0.0500
pH, stu	7.37	8.02	6.98	7.79	7.22	6.88	6.43
Phosphorus	0.062	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium	6.49	7.68	3.08	2.68	2.23	1.82	1.43
Scandium	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Selenium	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Silver	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	10.3	3.97	<0.50	<0.50	<0.50	0.55	<0.50
Strontium	0.0688	0.0556	0.0409	0.0516	0.0386	0.039	0.0374
Sulfate	66.7	44.1	8.46	19.7	6.85	7.51	5.52
Thallium	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Tin	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Titanium	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Total Dissolved Solids	130	100	56	95	32	59	22
Vanadium	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zinc	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Cations, meq/L	1.80	1.48	0.57	1.10	0.51	0.46	0.40
Anions, meq/L	1.90	1.59	0.55	1.25	0.55	0.48	0.38
Balance, %	-2.69	-3.74	1.93	-6.38	-3.99	-2.24	2.00
SVL Report #	W8J0199	W8K0025	W8L0017	W8L0487	W9A0389	W9B0365	W9C0450

Humidity Cell Analytical Results, SG-1054 355'-380' (1.520 Kg)

					Total Fe					SO_4=			Acidity, as $CaCO_3$			Alkalinity, as $CaCO_3$		
Week	Vol. L	Effluent pH	Redox, mV (vs Ag/AgCI)	Conductivity mS/cm	mg/l	mg/kg	Cum. mg/kg	Fe^{2}+ mg/l	Fe^{3}+ mg/l	mg/l	mg/kg	Cum. mg/kg	mg/l	mg/kg	Cum. mg/kg	mg/l	mg/kg	Cum. mg/kg
0	0.647	7.43	183	0.30	0.01	0.004	0.004	0.01	0.00	22.4	9.53	9.53	0.0	0.00	0.00	14.00	5.96	5.96
1	0.630	7.59	203	0.18	0.01	0.004	0.008	0.01	0.00	22.4	9.28	18.81	0.0	0.00	0.00	18.00	7.46	13.42
2	0.482	7.56	251	0.15	0.02	0.006	0.014	0.01	0.01	10.1	3.20	22.01	0.0	0.00	0.00	14.00	4.44	17.86
3	0.511	7.45	248	0.16	0.07	0.024	0.038	0.00	0.07	10.6	3.56	25.57	0.0	0.00	0.00	22.00	7.40	25.26
4	0.646	7.35	295	0.08	0.01	0.004	0.042	0.00	0.01	0.4	0.17	25.74	0.0	0.00	0.00	14.00	5.95	31.21
5	0.879	7.14	290	0.10	0.00	0.000	0.042	0.00	0.00	0.1	0.06	25.80	2.0	1.16	1.16	6.00	3.47	34.68
6	0.788	7.03	288	0.09	0.02	0.010	0.052	0.00	0.02	0.1	0.03	25.83	0.0	0.00	1.16	4.00	2.07	36.75
7	0.721	6.77	295	0.09	0.00	0.000	0.052	0.00	0.00	0.1	0.05	25.88	0.0	0.00	1.16	4.00	1.90	38.65
8	0.734	6.23	296	0.08	0.00	0.000	0.052	0.00	0.00	2.7	1.30	27.18	2.0	0.97	2.12	2.00	0.97	39.62
9	0.730	5.98	325	0.07	0.03	0.014	0.066	0.01	0.02	0.1	0.04	27.22	4.0	1.92	4.04	2.00	0.96	40.58
10	0.719	5.77	331	0.06	0.02	0.009	0.075	0.00	0.02	0.0	0.00	27.22	4.0	1.89	5.94	2.00	0.95	41.53
11	0.718	5.54	340	0.06	0.07	0.033	0.108	0.00	0.07	0.5	0.24	27.46	2.0	0.95	6.88	2.00	0.94	42.47
12	0.703	5.70	268	0.05	0.00	0.000	0.108	0.00	0.00	0.2	0.09	27.55	0.0	0.00	6.88	2.00	0.93	43.40
13	0.706	5.83	293	0.05	0.00	0.000	0.108	0.00	0.00	1.0	0.46	28.01	2.0	0.93	7.81	2.00	0.93	44.33
14	0.686	6.04	283	0.07	0.01	0.005	0.113	0.00	0.01	0.4	0.18	28.19	0.0	0.00	7.81	2.00	0.90	45.23
15	0.691	5.87	289	0.06	0.01	0.005	0.118	0.00	0.01	0.5	0.23	28.42	0.0	0.00	7.81	2.00	0.91	46.14
16	0.701	5.84	256	0.06	0.01	0.005	0.123	0.00	0.01	0.5	0.23	28.65	2.0	0.92	8.73	2.00	0.92	47.06
17	0.693	5.97	306	0.06	0.02	0.009	0.132	0.00	0.02	0.6	0.27	28.92	2.0	0.91	9.64	2.00	0.91	47.97
18	0.704	6.06	306	0.06	0.02	0.009	0.141	0.02	0.00	0.5	0.23	29.15	2.0	0.93	10.57	2.00	0.93	48.90
19	0.684	5.67	303	0.11	0.07	0.032	0.173	0.00	0.07	0.0	0.00	29.15	4.0	1.80	12.37	2.00	0.90	49.80
20	0.693	5.73	254	0.06	0.01	0.005	0.178	0.00	0.01	0.0	0.00	29.15	2.0	0.91	13.28	2.00	0.91	50.71
21	0.694	6.01	260	0.06	0.01	0.005	0.183	0.00	0.01	0.9	0.41	29.56	0.0	0.00	13.28	2.00	0.91	51.62
22	0.683	6.39	254	0.06	0.01	0.004	0.187	0.00	0.01	0.7	0.31	29.87	0.0	0.00	13.28	2.00	0.90	52.52
23	0.693	6.33	275	0.10	0.00	0.000	0.187	0.00	0.00	0.7	0.32	30.19	0.0	0.00	13.28	2.00	0.91	53.43
24	0.722	6.61	241	0.06	0.01	0.005	0.192	0.00	0.01	0.6	0.29	30.48	0.0	0.00	13.28	2.00	0.95	54.38
25	0.685	6.74	249	0.07	0.02	0.009	0.201	0.00	0.02	0.7	0.32	30.80	2.0	0.90	14.18	1.00	0.45	54.83
26	0.641	7.15	236	0.10	0.02	0.008	0.209	0.01	0.01	1.6	0.67	31.47	2.0	0.84	15.03	2.00	0.84	55.67
27	0.684	7.39	223	0.08	0.00	0.000	0.209	0.00	0.00	0.1	0.03	31.50	2.0	0.90	15.93	2.00	0.90	56.57
28	0.688	7.37	242	0.07	0.00	0.000	0.209	0.00	0.00	0.0	0.00	31.50	2.0	0.91	16.83	0.00	0.00	56.57

Profile II Analytical Results, Humidity Cell Extracts,
Bald Mountain ARD Study, SG-1054 355'-380'

	Extract						
Analysis, mg/L	Week 0	Wks 1-4	Wks 5-8	Wks 9-12	Wks 13-16	Wks 17-20	Wks 21-24
Alkalinity, $CaCO_3$	19.6	10.6	1.7	<1.0	<1.0	<1.0	<1.0
CO_3, $CaCO_3$	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
HCO_3	19.6	10.6	1.7	<1.0	<1.0	<1.0	<1.0
Aluminum	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080
Antimony	0.00397	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300
Arsenic	0.0103	0.0156	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300
Barium	0.106	0.0818	0.0869	0.0556	0.028	0.0376	0.0358
Beryllium	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Bismuth	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060
Boron	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Cadmium	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	33.5	5.89	1.52	0.481	0.477	0.48	0.594
Chloride	15	1.83	0.304	<0.200	0.221	0.219	<0.200
Chromium	0.0336	0.0062	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Cobalt	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Copper	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Fluoride	0.45	0.409	0.289	<0.100	<0.100	0.155	<0.100
Gallium	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Iron	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060
Lead	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300
Lithium	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Magnesium	3.89	0.571	0.16	0.064	<0.060	<0.060	<0.060
Manganese	0.0121	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Mercury	<0.00022	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	0.0105	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Nitrate/Nitrite as N	3.02	0.153	0.451	0.333	0.176	0.118	0.0804
pH, stu	7.18	7.02	5.97	5.74	5.71	5.93	5.93
Phosphorus	0.084	0.201	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium	10.5	3.97	0.67	<0.50	<0.50	<0.50	<0.50
Scandium	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Selenium	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Silver	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	18.5	2.44	<0.50	<0.50	<0.50	<0.50	<0.50
Strontium	0.115	0.0299	0.0099	<0.0050	<0.0050	<0.0050	<0.0050
Sulfate	104	14.5	2.14	0.48	0.58	0.72	0.79
Thallium	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Tin	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Titanium	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Total Dissolved Solids	180	36	54	32	12	<10	<10
Vanadium	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zinc	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Cations, meq/L	3.07	0.55	0.11	0.03	0.03	0.03	0.03
Anions, meq/L	3.22	0.60	0.13	0.04	0.04	0.04	0.03
Balance, %	-2.30	-3.81	-8.87	-11.83	-14.90	-14.77	5.10
SVL Report #	W8J0199	W8K0025	W8L0017	W8L0487	W9A0389	W9B0365	W9C0450