Jim

NEVADA GOLDFIELDS INC.

BARITE HILL PROJECT

Highway 221 & State Road 33-162
P.O. Box 1510
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Phone 803/465-3321 Fax 803/465-4308

April 6, 1993

SCDHEC
Van Keisler
Bureau of Solid & Hazardous Waste
2600 Bull Street
Columbia, South Carolina 29201

HYDROGEOLOGY

Dear Mr. Keisler,

Enclosed please find a copy of the first quarter monitor well samples for 1993. This begins our second year of sampling, so the number of parameters has been reduced.

A comparison of all parameters with the calculated statistical tolerance levels shows no parameters outside the tolerance intervals for the down-gradient wells. The pH on up-gradient well A3 was below the lower tolerance limit. The reason for the low pH is not readily apparent. A continued reduction in the pH above the site may adversely impact the down-gradient wells over time.

If you have any questions or comments, please feel free to contact me at (803) 443-2222.

Sincerely,

Jean V. Whisnant

Jean V. Whisnant

enc.

DHEC MONITOR WELLS
QUARTERLY REPORTS

A3 UPGRADIENT

LOCATION 20242.910, 6753.730

COLLAR ELEVATION - 486.100
DEPTH OF WELL - 70ft

DATE	8/28/91	9/12/91	2/27/92	5/14/92	8/25/92	11/23/92	2/24/93
DEPTH TO WATER	46.27	46.18	50.82	52.21	52.65	49.89	46.06
WATER ELEVATION	439.83	439.92	435.28	433.89	433.45	436.21	440.04
Silver	<0.01	<0.010	<0.010	<0.010	<0.01	<0.01	<0.01
Aluminum	51	71	16.6	1.9	2.6	2.63	1.16
Barium	0.53	0.11	0.23	0.11	0.10	0.098	0.129
Calcium	4		0.6	<1	<1	0.272	
Cadmium	0.006	<0.005	<0.005	<0.005	<0.005	<0.001	<0.00100
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.0020
Copper	1	0.06	0.28	0.07	0.04	0.060	0.042
Iron	128	95	28.2	5.9	3.0	5.13	2.29
Potassium	3	<2	2	<2	<2	<0.40	
Magnesium	1	50	0.38	<1	<1	<0.20	
Manganese	0.31	3	0.06	0.02	0.01	0.018	
Sodium	9	24	8	9	10	11.3	
Nickel	<0.02	0.10	<0.02	<0.02	<0.02	<0.0040	<0.0040
Zinc	0.34	0.38	0.09	0.06	<0.02	0.021	0.020
Mercury	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Arsenic	<0.005	<0.024	<0.005	<0.005	<0.005	<0.005	<0.005
Lead	0.076	0.013	0.020	<0.005	0.009	<0.005	<0.005
Selenium	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
TOC	1	<1	1	2	1	3	1
Alkalinity	14	128	11	12	7.4	11.6	
Chloride	5	45	5	5	5	5	5
Fluoride	0.20	0.60		0.1	<0.1	0.1	
pH (Lab)	5.64	7.08	5.40	5.46	5.75		
pH (Field)			5.40	5.56	5.17	5.27	4.64
Sulfate	7	<12	4	5	4	4	<3
Spec. Cond.	40	310	50	53	61	65	43
Temperature	21	8	16.1	18.9	18	16	15
Ammonia N	0.1	0.35	<0.1	<0.1	0.2	<0.1	
Nitrite N	<0.05	<0.05	<0.05				<0.05
Nitrate N	0.30	0.23	0.25	0.28	0.27	0.29	0.32
Cyanide (total)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	<0.006
TDS	116	38	56	42	58	33	17

F3 UPGRADIENT

LOCATION 19505.880, 5619.790

COLLAR ELEVATION - 482.263
DEPTH OF WELL - 75ft

DATE	8/14/91	8/22/91	2/27/92	5/14/92	8/25/92	duplicate 8/25/92	11/23/92	2/24/93
DEPTH TO WATER	38.61	38.82	45.18	53.96	53.19		51.66	48.67
WATER ELEVATION	443.653	443.443	437.083	428.303	429.073		430.603	433.593
Silver	<0.010	<0.010	<0.010	0.04	<0.01	<0.01	0.02	<0.01
Aluminum	18.2	15	10.9	23.0	20.4	7.1	23.8	8.7
Barium	0.17	0.17	0.15	0.29	0.22	0.13	0.238	0.141
Calcium	8.4	13	5.9	11	11	11	17.4	
Cadmium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0021	0.0011
Chromium	<0.01	0.01	<0.01	0.01	<0.01	<0.01	0.011	0.007
Copper	0.14	0.11	0.08	0.28	0.12	0.08	0.193	0.085
Iron	22.9	28	17.4	78.30	35.0	20.8	51.6	22.1
Potassium	3	<2	<2	<2	<2	<2	0.965	
Magnesium	1.24	2	1.23	2	2	2	1.71	
Manganese	0.05	0.07	0.04	0.08	0.06	0.05	0.059	
Sodium	19	15	9	12	13	13	14.6	
Nickel	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	0.004	<0.0040
Zinc	0.21	0.12	0.08	0.12	0.08	0.06	0.082	0.058
Mercury	<0.0002	<0.0002	0.0002	0.0003	0.0003	0.0005	0.0003	0.0003
Arsenic	<0.005	0.012	<0.005	<0.005	<0.005	<0.003	<0.005	<0.005
Lead	0.026	0.038	0.018	0.12	0.079	0.033	0.079	0.040
Selenium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TOC	2	<1	2	1	<1	<1	3	3
Alkalinity	47	53	21	24	47	26	47.2	
Chloride	7	6	7	7	7	7	8	7
Fluoride	0.2	<0.1		0.3	0.2	0.2	0.3	
pH (Lab)	6.3	6.19		6.01	6.36	6.16		
pH (Field)			5.62	5.82	5.47	5.47	5.65	5.58
Sulfate X	12	16	10	<12	<12	8	<12	8
Spec. Cond.	155	110	83	85	121	121	118	94
Temperature			15.5	20	18	18	16	15
Ammonia N.	0.25	0.13	0.13	<0.1	0.3	0.1	<0.1	
Nitrite N	<0.05	<0.05	<0.05					<0.05
Nitrate N	0.12	0.17	0.15	0.17	0.15	0.17	0.17	0.18
Cyanide (total)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.006
TDS	246	20	88	86	113	106	100	51

82

LOCATION 18992.210, 6023.290

COLLAR ELEVATION - 446.500
DEPTH OF WELL - 121ft

DATE	8/14/91	8/22/91	2/28/92	5/14/92	8/26/92	11/23/92	2/24/93	duplicate 2/24/93
DEPTH TO WATER	22.25	22.59	23	23	26.8	26.19	21.16	
WATER ELEVATION	424.25	423.91	423.5	423.5	419.7	420.31	425.94	
Silver	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01	<0.01	<0.01
Aluminum	2.0	7	0.2	0.7	0.6	0.669	0.480	0.671
Barium	0.20	0.25	0.15	0.18	0.20	0.203	0.182	0.184
Calcium	34.3	40	31.7	31	38	36.1		
Cadmium	<0.005	0.007	<0.005	<0.005	<0.005	<0.001	<0.00100	<0.00100
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0020	<0.0020	<0.0020
Copper	0.02	0.05	<0.02	0.01	0.01	0.009	0.007	0.009
Iron	11.9	40	0.61	7.7	6.2	7.06	6.10	7.75
Potassium	3	2	<2	<2	<2	1.30		
Magnesium	6.29	8	5.16	5	6	5.84		
Manganese	0.62	2	0.34	0.59	0.60	0.617		
Sodium	14	15	11	12	13	13.1		
Nickel	<0.02	<0.02	<0.02	<0.02	<0.02	<0.0040	<0.0040	<0.0040
Zinc	0.31	<0.03	0.04	0.12	0.11	0.094	0.130	0.101
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Arsenic	0.005	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead	0.195	0.39	0.009	0.038	0.088	0.094	0.103	0.126
Selenium X	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TOC	<1	8	1	2	1	6	1	2
Alkalinity	31	114	124	119	133	126		
Chloride	7	7	8	9	18	15	12	12
Fluoride	0.2	0.2	0.2	0.1	0.1	0.2		
pH (Lab)	7.1	7.32	7.68	7.78	7.69			
pH (Field)			7.64	7.54	7.75	6.83	7.16	
Sulfate	9	10	9	8	9	9	11	11
Spec. Cond.	240	235	267	254	172	310	287	
Temperature			15	17.8	18	15	15	
Ammonia N	0.27	0.14	<0.1	<0.1	0.2	0.2		
Nitrite N	<0.05	<0.05					<0.05	<0.05
Nitrate NX	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Cyanide (total)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.006	<0.006
TDS	158	14	200	189	220	179	175	173

GW-5

LOCATION 18774.200, 6890.800

COLLAR ELEVATION - 432.600
DEPTH OF WELL - 37.8ft

DATE	3/27/91	6/28/91	9/19/91	12/19/91	2/27/92	duplicat 2/27/92	5/14/92	8/25/92	11/23/92	2/24/93
DEPTH TO WATER	12.89	12.6	13.69	15.22	13.37		13.99	13.92	12.6	10.39
WATER ELEVATION	419.71	420	418.91	417.38	419.23		418.61	418.68	420	422.21
Silver	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01	<0.01
Aluminum	6.8	4.3	3.1	125	58.1	120	26.3	43.4	63.1	26.8
Barium	<0.02	0.03	0.03	0.46	0.29	0.44	0.12	0.16	0.264	0.121
Calcium	13.0	27.8	28.1	64.7	45.7	74.7	34	40	51.0	
Cadmium	<0.002	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.0027	0.0014
Chromium	<0.01	<0.01	<0.01	0.32	0.17	0.3	0.07	0.10	0.168	0.063
Copper	0.02	0.04	<0.02	0.22	0.11	0.2	0.05	0.07	0.125	0.046
Iron	8.64	5.23	3.76	185	92.6	162	39.8	56.6	99.1	33.6
Potassium	<2	<2	<2	6	3	6	2	2	2.85	
Magnesium	15.9	19.3	20.1	97.2	58.6	86.1	34	38	56.9	
Manganese	0.61	0.55	0.65	4.86	3.01	4.11	1.30	1.56	2.68	
Sodium	8	28	30	25	20	28	26	28	26.4	
Nickel	<0.02	0.03	<0.02	0.11	0.06	0.10	0.02	0.03	0.059	0.022
Zinc	0.12	0.15	<0.02	0.66	0.43	0.57	0.14	0.19	0.351	0.126
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Arsenic	<0.005	<0.02	<0.005	<0.025	<0.005	<0.025	<0.005	<0.005	<0.005	<0.005
Lead	0.005	0.014	<0.005	<0.026	0.025	0.028	<0.005	0.015	0.016	0.022
Selenium	<0.005	<0.005	<0.005	<0.10	<0.025	<0.025	<0.005	<0.005	<0.005	<0.010
TOC	2	2	1	2	2	2	1	1	3	2
Alkalinity	65.1	173.3	173	165	168	170	153	154	152	
Chloride	4	41	41	60	38	44	38	36	35	38
Fluoride					0.2	2.5	1	0.2	0.7	
pH (Lab)	6.7	6.73	6.85	6.47	6.94	6.87	6.72	6.85		
pH (Field)					6.89	6.88	6.82	6.10	6.64	6.35
Sulfate	22	<12	3	<30	6	<3	<30	<3	<30	<30
Spec. Cond.	180	395	355	407	374	376	376	399	399	424
Temperature	23	22.5		19	15.5	15.5	17.8	18	18	15
Ammonia N	0.38	0.34		0.15	0.13	<0.1	<0.1	0.2	0.1	
Nitrite N			<0.05	<0.05						<0.05
Nitrate N	<0.05	<0.05	0.09	0.11	<0.05	<0.05	0.11	0.08	0.14	<0.05
Cyanide (total)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.006
TDS	185	251	154	237	264	264	257	265	234	256

GW-6

LOCATION 18937.500, 6179.100

COLLAR ELEVATION - 425.900
DEPTH OF WELL - 28.4ft

DATE	3/27/91	6/28/91	9/19/91	12/19/91	2/28/92	5/14/92	8/25/92	11/23/92	2/24/93
DEPTH TO WATER	2.6	2.4	4.79	6.42	5.33	6.29	4.97	3.96	2.54
WATER ELEVATION	423.3	423.5	421.11	419.48	420.57	419.61	420.93	421.94	423.36
Silver	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01	<0.01
Aluminum	1.2	1.8	1.5	0.6	2.6	1.8	0.5	2.16	0.655
Barium	0.03	0.03	0.05	0.04	0.03	0.05	0.04	0.055	0.026
Calcium	18.1	21.7	21.6	22.5	18.7	22	22	20.3	
Cadmium	<0.002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0011	<0.00100
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.009	<0.0020
Copper	<0.02	0.02	0.03	<0.01	0.02	<0.01	<0.02	0.007	<0.0040
Iron	1.02	1.59	1.06	0.59	2.23	1.2	0.4	2.12	0.558
Potassium	<2	2	<2	<2	<2	<2	<2	1.35	
Magnesium	10.2	11.5	11.8	11.9	10.1	12	12	10.9	
Manganese	0.22	0.32	1.38	0.96	0.53	1.16	1.21	1.11	
Sodium	26	29	31	30	22	27	30	28.4	
Nickel	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.0040	<0.0040
Zinc	<0.02	0.11	0.08	<0.02	0.02	<0.02	<0.02	0.019	0.008
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Arsenic	<0.005	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead	0.017	0.015	<0.005	<0.005	0.016	<0.005	<0.005	<0.005	<0.005
Selenium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TOC	5	8	2	1	1	1	2	3	1
Alkalinity	87.15	86.1	122	118	89	90	107	101	
Chloride		49	44	41	43	42	39	39	39
Fluoride					0.5	0.2	0.2	0.2	
pH (Lab)	7.0	6.55	6.70	6.27	6.51	6.54	6.68		
pH (Field)					6.61	6.59	6.92	6.83	6.40
Sulfate	12	14	16	13	12	11	12	13	14
Spec. Cond.	290	320	320	316	312.5	349.8	194	339	313
Temperature	23	22.5		20	14.7	15.6	18	17	12
Ammonia N	0.19	0.24		<0.1	<0.1	0.1	0.3	0.3	
Nitrite N			<0.05	<0.05					<0.05
Nitrate N	0.06	<0.05	<0.05	0.19	0.10	<0.05	<0.05	0.13	0.08
Cyanide (total)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.006
TDS	272	220	162	216	234	235	245	210	197

03

LOCATION 19506.650, 7324.42

COLLAR ELEVATION - 470.391
DEPTH OF WELL - 79ft

DATE	8/28/91	9/12/91	2/27/92	5/14/92	8/25/92	11/23/92	2/24/93
DEPTH TO WATER	37.54	37.6	41.06	40.24	41.11	39.8	36.72
WATER ELEVATION	432.851	432.791	429.331	430.151	429.281	430.591	433.671
Silver	0.014	0.061	<0.01	<0.01	<0.01	<0.01	<0.01
Aluminum	158	62	4.1	1.0	1.6	0.509	0.438
Barium	0.21	0.42	<0.02	<0.02	<0.02	0.004	0.007
Calcium	85.0		36.2	33	35	33.5	
Cadmium	0.007	<0.005	<0.005	<0.005	<0.005	<0.00100	<0.00100
Chromium	0.04	<0.01	<0.01	<0.01	<0.01	<0.0020	<0.0020
Copper	0.13	0.81	<0.02	<0.01	<0.02	<0.0040	<0.0040
Iron	208	81	5.94	1.2	2.4	0.723	0.638
Potassium	6	3	<2	<2	<2	0.454	
Magnesium	87	0.85	15.2	13	14	12.9	
Manganese	7	0.18	0.53	0.24	0.41	0.202	
Sodium	18	10	19	20	21	20.4	
Nickel	0.19	<0.02	0.04	<0.02	0.03	0.023	0.020
Zinc	0.81	0.23	0.04	<0.02	<0.02	0.010	0.014
Mercury	0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Arsenic	<0.020	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005
Lead	0.025	0.094	0.005	<0.005	<0.005	<0.005	<0.005
Selenium	<0.10	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005
TOC	1	2	1	1	<1	3	2
Alkalinity	127	11	129	123	124	127	
Chloride	44	5	51	49	47	46	46
Fluoride	0.75	0.2	1.2	<0.1	0.1	0.1	
pH (Lab)	6.85	5.91	6.64	6.67	6.68		
pH (Field)			6.68	6.54	5.89	6.60	6.71
Sulfate	<3	<15	<3	3	<3	<3	<3
Spec. Cond.	350	45	348.5	354	394	391	376
Temperature	21	7	16	18.3	18	16	13.5
Ammonia N	1.4	0.35	0.27	<0.1	0.2	<0.1	
Nitrite N	<0.05	<0.05					<0.05
Nitrate N	0.15	0.08	0.06	0.14	0.12	0.14	<0.05
Cyanide (total)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.006
TDS	116	260	259	260	274	224	236

Well L2

LOCATION 19275.583, 7092.098

COLLAR ELEVATION - 462.221
DEPTH OF WELL - 81.91

DATE	8/7/92	8/25/92	11/23/92	duplicate 11/23/92	2/24/93
DEPTH TO WATER	38	37.51	36.33		33.62
WATER ELEVATION	424.221	424.711	425.891		428.601
Silver	<0.01	<0.01	<0.01	<0.01	<0.01
Aluminum	209	88.6	36.5	32.0	13.1
Barium	0.30	0.17	0.079	0.069	0.026
Calcium	67	57	50.0	49.2	
Cadmium	0.006	<0.005	0.0015	0.0011	<0.00100
Chromium	0.07	0.19	0.018	0.018	0.020
Copper	0.25	0.15	0.066	0.056	0.022
Iron	160	91.7	43.4	39.2	13.1
Potassium	4	<2	1.18	0.963	
Magnesium	38	29	22.0	21.4	
Manganese	12.70	7.35	3.57	3.10	
Sodium	24	29	22.2	22.3	
Nickel	0.06	0.05	0.028	0.023	0.011
Zinc	0.23	0.18	0.074	0.061	0.028
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Arsenic	<0.005	<0.005	<0.005	<0.005	<0.005
Lead	0.028	0.028	0.009	0.008	<0.005
Selenium	<0.005	<0.005	<0.005	<0.005	<0.005
TOC	2	<1	2	7	1
Alkalinity	146	138	138	139	
Chloride	73	77	75	75	80
Fluoride	0.9	0.5	0.2	0.2	
pH (Lab)	6.96	6.81			
pH (Field)	6.84	6.12	6.79		6.32
Sulfate	<60	<30	<12	<6	<6
Spec. Cond.	493	504	510		511
Temperature	17	18	16		13
Ammonia N	0.40	0.3	<0.1	0.1	
Nitrite N					<0.05
Nitrate N	0.29	0.37	0.42	0.43	0.36
Cyanide (total)	<0.005	<0.005	<0.050	<0.100	<0.006
TDS	657	485	481	488	363

N

LOCATION 18757.420, 6358.792

COLLAR ELEVATION - 433.935
DEPTH OF WELL - 27.07

DATE	1/14/92	1/22/92	2/27/92	5/14/92	8/25/92	11/23/92	2/24/93
DEPTH TO WATER	16.43	16.14	15.07	15.39	15.4	14.09	12.17
WATER ELEVATION	417.505	417.795	418.865	418.545	418.535	419.845	421.765
Silver	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01	<0.01
Aluminum	35.1	48.1	38.8	24.0	25.1	19.9	24.5
Barium	0.09	0.11	0.11	0.07	0.05	0.045	0.049
Calcium	36.8	31.4	31.0	30	31	29.6	
Cadmium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.00100	<0.00100
Chromium	0.04	0.04	0.05	0.02	0.03	0.017	0.024
Copper	0.03	0.03	0.05	0.02	<0.02	0.015	0.016
Iron	45.8	61.4	41.2	27	29.4	20.3	24.2
Potassium	7	4	5	2	2	2.90	
Magnesium	42.0	48.1	34.0	34	34	31.4	
Manganese	2.01	2.74	2.60	1.58	1.27	0.833	
Sodium	48	44	36.00	45.00	50.00	49.8	
Nickel	0.02	0.02	0.02	<0.02	<0.02	0.007	0.007
Zinc	0.33	0.44	0.30	0.20	0.17	0.165	0.154
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Arsenic	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead	0.019	0.006	0.010	<0.005	0.006	<0.005	<0.005
Selenium	<0.005	<0.025	<0.025	<0.020	<0.005	<0.005	<0.005
TOC	2	2	2	1	1	5	2
Alkalinity	201	206	214	196	204	205	
Chloride	50	65	51	55	58	53	59
Fluoride	0.4	0.8		0.3	0.4	0.4	
pH (Lab)	7.28	7.35	7.23	7.07	7.07		
pH (Field)			7.31	6.95	7.04	7.01	6.9
Sulfate X	<12	<75	8	<12	<12	<6	<12
Spec. Cond.	500	247	468	528	554	543	548
Temperature		13	15	15.6	18	17	12
Ammonia N	0.25	0.14	0.15	0.3	0.2	0.1	
Nitrite N	<0.05	<0.10	<0.05				<0.05
Nitrate N	<0.10	<0.10	<0.2	<0.05	<0.05	0.06	<0.05
Cyanide (total)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.006
TDS	283	274	1152	299	336	286	366

Well O

LOCATION 18758.548, 6704.178

COLLAR ELEVATION - 442.445
DEPTH OF WELL - 28.62

DATE	1/22/92	2/28/92	5/14/92	8/25/92	11/23/92	2/24/93
DEPTH TO WATER	26.42	23.16	23.25	23.32	22.34	20.03
WATER ELEVATION	416.025	419.285	419.195	419.125	420.105	422.415
Silver	<0.010	<0.010	<0.010	<0.01	<0.01	<0.01
Aluminum	0.9	1.2	1.4	2.8	12.5	15.4
Barium	0.03	0.02	0.03	0.03	0.079	0.099
Calcium	33.9	29.5	28	31	36.0	
Cadmium	<0.005	<0.005	<0.005	<0.005	<0.00100	0.0011
Chromium	<0.01	<0.01	<0.01	<0.01	0.007	0.008
Copper	<0.02	<0.02	<0.01	<0.02	0.0040	<0.0040
Iron	1.18	1.48	2.1	3.6	18.7	19.5
Potassium	4	2	2	<2	2.62	
Magnesium	15.1	15.4	16	18	24.0	
Manganese	0.10	0.08	0.06	0.11	0.612	
Sodium	26	24	26.00	26	26.9	
Nickel	<0.02	<0.02	<0.02	<0.02	0.006	0.006
Zinc	0.02	<0.02	0.02	0.04	0.092	0.098
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Arsenic	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead	0.013	0.010	<0.005	<0.005	<0.005	<0.005
Selenium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020
TOC		2	1	2	3	2
Alkalinity		129	134	140	140	
Chloride	60	60	58	57	55	60
Fluoride	0.2	0.5	0.2	0.2	0.3	
pH (Lab)	7.27	7.14	6.92	6.94		
pH (Field)		6.93	6.83	7.24	7.04	6.56
Sulfate X	11	3	<3	<3	<6	<3
Spec. Cond.	201	433	440	253	451	443
Temperature	13	15.5	16.7	18	16	14
Ammonia N		0.13	<0.1	0.2	0.4	
Nitrite N	<0.05					<0.05
Nitrate N		0.35	0.37	0.41	0.44	0.31
Cyanide (total)		<0.005	<0.005	<0.005	<0.010	<0.006
TDS	222	258	267	294	252	269

Davis & Floyd, Inc.

Laboratory Analysis Report

Page 1

Work Order # 93-02-177

Received: 02/25/93

03/11/93 16:59:08

REPORT NEVADA GOLDFIELDS, INC.
TO P.O. BOX 1530
McCORMICK, SC 29835

ATTEN JEAN WHISNANT

PREPARED DAVIS & FLOYD, INC.
BY P.O. DRAWER 428
GREENWOOD, S.C 29648

PHONE (803) 229-5211

CERTIFIED BY

JOHN_MCCORD

WORK ID JOB NO. 7561.02
P.O. #
TAKEN NEVADA GOLDFIELDS
TYPE WASTE WATER
NUMBER OF SAMPLES 8

Comments:
WE ARE PLEASED TO PROVIDE THIS CERTIFIED REPORT OF ANALYSES.
FEEL FREE TO TELEPHONE IF FURTHER EXPLANATION IS REQUIRED.
UNLESS OTHER ARRANGEMENTS HAVE BEEN MADE, SAMPLES WILL BE
DISPOSED OF OR RETURNED 28 DAYS FROM THE DATE OF THIS REPORT.

SAMPLE IDENTIFICATION	DATE COLLECTED
01 N	02/24/93 11:45:00
02 A-3	02/24/93 15:15:00
03 GW-6	02/24/93 16:51:00
04 F-3	02/24/93 14:36:00
05 L-2	02/24/93 09:50:00
06 B-2	02/24/93 11:15:00
07 T	02/24/93 11:10:00
08 GW-5	02/24/93 12:10:00

RECEIVED MAR 2 3 1993

Davis & Floyd, Inc. Laboratory Analysis Report

Work Order # 93-02-177

Received: 02/25/93 03/11/93 16:59:08

Test Description	Units	01 N	02 A-3	03 GW-6	04 F-3
SILVER (TOTAL)	mg/l	< 0.01	< 0.01	< 0.01	< 0.01
ALUMINUM (TOTAL)	mg/l	24.5	1.16	0.655	8.70
BARIUM (TOTAL)	mg/l	0.049	0.129	0.026	0.141
CADMIUM (TOTAL)	mg/l	< 0.00100	< 0.00100	< 0.00100	0.0011
CHROMIUM (TOTAL)	mg/l	0.024	< 0.0020	< 0.0020	0.007
COPPER (TOTAL)	mg/l	0.016	0.042	< 0.0040	0.085
IRON (TOTAL)	mg/l	24.2	2.29	0.558	22.1
NICKEL (TOTAL)	mg/l	0.007	< 0.0040	< 0.0040	< 0.0040
ZINC (TOTAL)	mg/l	0.154	0.020	0.008	0.058
MERCURY (TOTAL)	mg/l	< 0.0002	< 0.0002	< 0.0002	0.0003
ARSENIC (TOTAL)	mg/l	< 0.005	< 0.005	< 0.005	< 0.005
LEAD (TOTAL)	mg/l	< 0.005	< 0.005	< 0.005	0.040
SELENIUM (TOTAL)	mg/l	< 0.005	< 0.005	< 0.005	< 0.005
ORGANIC CARBON TOTAL	mg/l	2	1	1	3
CHLORIDE	mg/l	59	5	39	7
SULFATE	mg/l	< 12 X	< 3	14	8
NITRITE NITROGEN	mg/l	< 0.05	< 0.05	< 0.05	< 0.05
NITRATE NITROGEN	mg/l	< 0.05	0.32	0.08	0.18
CYANIDE (TOTAL)	mg/l	< 0.006	< 0.006	< 0.006	< 0.006
DISSOLVED SOLIDS TOTAL	mg/l	366	17	197	51

Test Description	Units	05 L-2	06 B-2	07 T	08 GW-5
SILVER (TOTAL)	mg/l	< 0.01	< 0.01	< 0.01	< 0.01
ALUMINUM (TOTAL)	mg/l	13.1	0.480	0.671	26.8

RECEIVED MAR 2 3 1993

Davis & Floyd, Inc.

Laboratory Analysis Report

Work Order # 93-02-177

Received: 02/25/93

03/11/93 16:59:08

Continued From Above

Test Description	Units	05 L-2	06 B-2	07 T	08 GW-5
BARIUM (TOTAL)	mg/l	0.026	0.182	0.184	0.121
CADMIUM (TOTAL)	mg/l	< 0.00100	< 0.00100	< 0.00100	0.0014
CHROMIUM (TOTAL)	mg/l	0.020	< 0.0020	< 0.0020	0.063
COPPER (TOTAL)	mg/l	0.022	0.007	0.009	0.046
IRON (TOTAL)	mg/l	13.1	6.10	7.75	33.6
NICKEL (TOTAL)	mg/l	0.011	< 0.0040	< 0.0040	0.022
ZINC (TOTAL)	mg/l	0.028	0.130	0.101	0.126
MERCURY (TOTAL)	mg/l	< 0.0002	< 0.0002	< 0.0002	< 0.0002
ARSENIC (TOTAL)	mg/l	< 0.005	< 0.005	< 0.005	< 0.005
LEAD (TOTAL)	mg/l	< 0.005	0.103	0.126	0.022
SELENIUM (TOTAL)	mg/l	< 0.005	< 0.005	< 0.005	< 0.010 X
ORGANIC CARBON TOTAL	mg/l	1	1	2	2
CHLORIDE	mg/l	80	12	12	38
SULFATE	mg/l	< 6 X	11	11	< 30 X
NITRITE NITROGEN	mg/l	< 0.05	< 0.05	< 0.05	< 0.05
NITRATE NITROGEN	mg/l	0.36	< 0.05	< 0.05	0.09
CYANIDE (TOTAL)	mg/l	< 0.006	< 0.006	< 0.006	< 0.006
DISSOLVED SOLIDS TOTAL	mg/l	363	175	173	256

RECEIVED MAR 2 3 1993

Received: 02/25/93 03/11/93 16:59:08

NEVADA GOLDFIELDS, INC.

NOTES:

X = INDICATES A MATRIX INTERFERENCE WHICH MAY REQUIRE A DILUTION OR WHICH PREVENTS THE REPORTING OF A RESULT. DETECTION LIMITS HAVE BEEN ADJUSTED WHERE APPLICABLE.

RECEIVED MAR 2 3 1993

Davis & Floyd, Inc.

Laboratory Analysis Report

Page 1

Work Order # 93-02-178

Received: 02/25/93

03/11/93 16:58:03

REPORT NEVADA GOLDFIELDS, INC.
TO P.O. BOX 1530
McCORMICK, SC 29835

ATTEN JEAN WHISNANT

PREPARED DAVIS & FLOYD, INC.
BY P.O. DRAWER 428
GREENWOOD, S.C 29648

PHONE (803) 229-5211

CERTIFIED BY

JOHN_MCCORD

WORK ID JOB NO. 7561.02
P.O. #
TAKEN NEVADA GOLDFIELD
TYPE WASTE WATER
NUMBER OF SAMPLES 3

Comments:
WE ARE PLEASED TO PROVIDE THIS CERTIFIED REPORT OF ANALYSES.
FEEL FREE TO TELEPHONE IF FURTHER EXPLANATION IS REQUIRED.
UNLESS OTHER ARRANGEMENTS HAVE BEEN MADE, SAMPLES WILL BE
DISPOSED OF OR RETURNED 28 DAYS FROM THE DATE OF THIS REPORT.

SAMPLE IDENTIFICATION	DATE COLLECTED
01 D-3	02/24/93 13:30:00
02 O	02/24/93 17:18:00
03 FIELD BLANK	02/24/93 14:30:00

RECEIVED MAR 1 8 1993

Davis & Floyd, Inc.

Laboratory Analysis Report

Work Order # 93-02-178

Received: 02/25/93 03/11/93 16:58:03

Test Description	Units	01 D-3	02 O	03 FIELD BLANK
SILVER (TOTAL)	mg/l	< 0.01	< 0.01	
ALUMINUM (TOTAL)	mg/l	0.438	15.4	
BARIUM (TOTAL)	mg/l	0.007	0.099	
CADMIUM (TOTAL)	mg/l	< 0.00100	0.0011	
CHROMIUM (TOTAL)	mg/l	< 0.0020	0.008	
COPPER (TOTAL)	mg/l	< 0.0040	< 0.0040	
IRON (TOTAL)	mg/l	0.638	19.5	
NICKEL (TOTAL)	mg/l	0.020	0.006	
ZINC (TOTAL)	mg/l	0.014	0.098	
MERCURY (TOTAL)	mg/l	< 0.0002	< 0.0002	
ARSENIC (TOTAL)	mg/l	< 0.005	< 0.005	
LEAD (TOTAL)	mg/l	< 0.005	< 0.005	
SELENIUM (TOTAL)	mg/l	< 0.005	< 0.020 X	
ORGANIC CARBON TOTAL	mg/l	2	2	
CHLORIDE	mg/l	46	60	
SULFATE	mg/l	< 3	< 3	
NITRITE NITROGEN	mg/l	< 0.05	< 0.05	
NITRATE NITROGEN	mg/l	0.13	0.31	
CYANIDE (TOTAL)	mg/l	< 0.006	< 0.006	< 0.006
DISSOLVED SOLIDS TOTAL	mg/l	236	269	

RECEIVED MAR 1 3 1993

Received: 02/25/93 03/11/93 16:58:03

NEVADA GOLDFIELDS, INC.

NOTES:

X = INDICATES A MATRIX INTERFERENCE WHICH MAY REQUIRE A DILUTION OR WHICH PREVENTS THE REPORTING OF A RESULT. DETECTION LIMITS HAVE BEEN ADJUSTED WHERE APPLICABLE.

RECEIVED MAR 1 8 1993

4302177 4302178

Samples in 2 coolers

DAVIS & FLOYD

Chain of Custody Form

816 East Durst Street, Greenwood, S.C. 29649 Phone (803)229-5211 Fax (803)229-7119

PROJ. NO. 7561.02

PROJECT NAME: NEVADA GOLDFIELDS, McCORMICK, SC

SAMPLERS NAME/AFFILIATION:(PRINTED): Ernest Culpepper NGI

SAMPLE NO.	DATE	GRAB	TIME	COMP	TIME ON	TIME OFF	SAMPLE DESCRIPTION	NO. OF BOTTLES	1 125 ml	2 125 ml	3 500 ml	4 500 ml	5 1,000 ml	6 1,000 ml	7 1,890 ml	8	9	10	11	12	13	14	15	SAMPLE TYPE	POTENTIAL HAZARD
1	2-24-93		1145				N			1	1	1	1	1	1										
2	2-24-93		1515				A-3			1	1	1	1	1	1										
3	2-24-93		1651				GW-6			1	1	1	1	1	1										
4	2-24-93		1436				F-3			1	1	1	1	1	1										
5	2-24-93		950				L-2			1	1	1	1	1	1										
6	2-24-93		1115				B-2			1	1	1	1	1	1										
7	2-24-93		1110				T			1	1	1	1	1	1										
8	2-24-93		1210				GW-5			1	1	1	1	1	1										
9	2-24-93		1330				D-3			1	1	1	1	1	1										
10	2-24-93		1718				O			1	1	1	1	1	1										
11	2-24-93		1430				Field Blank								1										

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)
Ernest Culpepper	2-24-93 1745	Jean Whisonant	Jean Whisonant	2/25/93 06:45	John C. Greenwood

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED FOR LAB BY: (SIGNATURE)	DATE / TIME	CLIENT CONTACT:	
John C Greenwood	2/25/93 07:45	Angie Hanna	2-25-93 07:45	RESULTS SENT TO:	DATE:

DW-DRINKING WATER WW-WASTE WATER HW-HAZARDOUS WATER SD-SOLID AB-ABSORBENT TUBE
GW-GROUND WATER RC-RCRA SW-SURFACE WATER IM-IMPINGER SOLUTION F -FILTERS