TABLE 4
Judgmental Soil Sample Chemical Analysis Results - Laboratory
Phase 1 Report
Klau and Buena Vista Mines

Sample Results, Project Goals, EPA Regional Screening Levels (mg/Kg)

Location	Date	Depth (ft)	Sample Type	Mercury	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Calcium	Iron	Magnesium	Potassium	Sodium
			Project Goals:	0.174	50	0.027	0.062	330	10	0.5	0.36	0.4	13	28	11	220	38	1	4.2	1	2	50	NA	23000	NA	NA	NA
			EPA Regional Screening Levels:	6.7	77000	31	0.39	15000	160	16000	70	210[1]	NA	3100	400	NA	1600	390	390	5.1	550	23000	NA	55000	NA	NA	NA
BVM																											
Buena Visa Old Retort																											
J26-1	10/09/07	0	N	150 J-	21700	6.4 R	27.3	96.3 J-	0.37 J	6.4 J	0.74	82.8 J	25.6	28.2	21.6	582	238 J	3.7 UJ	0.53 J	2.5 UJ	50.9	69.7	5780	31100	7440	2180	527 J
	10/15/07	1	N	17.6	13800	6.8 R	16.2	76 J-	0.43 J	3.5 J	2.4	59.4 J	10.5	20.8	4.9	352	100 J	3.9 UJ	0.22 J	2.8 U	59.9	59.1	12400	19000	4580	1180	233 J
	10/15/07	1	FD	14.4	11900	6.7 R	15.5	83.3 J-	0.49 J	3.2 J	2.7	56.6 J	11.1	23	5.7	319	102 J	3.9 UJ	1.1 U	2.8 U	70.8	73.6	15400	21200	4370	1300	318 J
Buena Vista Repository																											
BVR-1	10/18/07	0	N	3.1	5140	7.4 R	5.4 J	212 J-	0.52 J	13.1	0.57 J	28.6 J	19.8 J	35	8.3 J-	564 J	82.4 J	4.3 UJ	1.2 U	3.1 U	43.1 J	76.8 J	26800 J	30400 J	16100	2190	147 J
	10/18/07	0	FD	1.8	5170	7.3 R	6.6 J	216 J-	0.59 J	11.3	0.75 J	27.6 J	28.7 J	35.8	8.4 J-	872 J	104 J	4.3 UJ	1.2 U	3 U	60.7 J	114 J	25400 J	44600 J	14900	1840	139 J
BVR-2	10/20/07	0	N	3.6 J-	1450	6.5 UJ	7.8	33.9 J-	0.47 J	9.2	0.54 UJ	11.6	11.9	24.2	4.9 J	303	72.5	0.64 J	0.17 J	2.7 U	33.5	67.9	4620 J	18000	7290 J	2220	214 J
Main Overburden Area																											
MOA-1	10/18/07	0	N	3070	420	31.7 J-	1.2 U	166 J-	0.02 J	0.6 U	1.1 J	1.1 J	6 UJ	1.8 J	5.5 J-	62.3 J	4 J	2.8 J-	0.86 J	501 J	3.2 J	6 UJ	99300 J	80300 J	500 UJ	251 J	54.8 J
	10/18/07	1	N	386	1580	90 J-	75.3 J	153 J-	0.04 J	0.63 U	1.2 J	15.2 J	13.9 J	42.6	8.4 J-	204 J	115 J	10.9 J-	1.3 U	16400 J	30.4 J	50.2 J	34900 J	171000 J	500 UJ	3010	1330
MOA-2	10/18/07	0	N	88.5	2730	7 R	15.8 J	139 J-	0.17 J	12.5	0.29 J	26.1 J	15.5 J	36.6	10 J-	142 J	113 J	4.1 UJ	1.2 U	78.7 J	32.4 J	56.3 J	21000 J	70800 J	967	2200	461 J
	10/18/07	1	N	38.8	4290	6.9 R	20.8 J	116 J-	0.59	13.4	1.4 J	30.9 J	37.9 J	64.6	13 J-	789 J	352 J	4 UJ	1.1 U	20 J	40.3 J	113 J	39500 J	74200 J	15300	2010	263 J
MOA-3	10/18/07	0	N	1040	259	21.6 J-	1.3 U	223 J-	0.63 U	0.63 U	1 J	0.77 J	6.3 UJ	1.3 J	9.3 J-	40.7 J	6.8 J	4.4 UJ	1.1 J	1520 J	4.1 J	8.1 J	23300 J	94900 J	500 UJ	733	267 J
Mine Area Drainage																											
MAD	10/19/07	0	N	94.8	3460	6.8 R	8.4	188 J-	0.43 J	14 J-	0.75	42.2 J-	20 J	44.4	6.2 J-	696 J	181 J-	4 U	1.1 U	9.4	57.9 J-	66.3	55900 J-	46400 J	30400	1320	156
	10/19/07	1	N	202	2170	6.5 R	6.4	146 J-	0.17 J	9 J-	0.31 J	31.9 J-	7 J	18.7	5.9 J-	209 J	42.3 J-	3.8 U	1.1 U	5.2	26.3 J-	25.9	24000 J-	23000 J	11500	1440	107
Mine Shop Area																											
MSA	10/19/07	0	N	3.5	8630	7.1 R	2.6 J	464 J-	0.74	15.9	2.4 J	49.5 J	20.9 J	53.9	2.9 J-	599 J	117 J	4.1 UJ	1.2 U	6.6 J	42.3 J	120 J	113000 J	62400 J	48300	490 J	184 J
	10/19/07	0	FD	1.9	8860	7.3 R	2.8 J	488 J-	0.83	17.4	2.8 J	49.4 J	24.8 J	59.1	4.2 J-	692 J	125 J	4.3 UJ	1.2 U	5.9 J	46.4 J	136 J	120000 J	63200 J	49500	512 J	177 J
Open Pit																											
OPT	10/20/07	0	N	5.5 J-	10800	8.6 R	19 J	263 J-	0.65 J	29 J-	12.3	53.9 J-	54.6 J-	55.9 J	2.9 J	2510 J	357 J	16	1.4 U	5.8	138 J	250 J-	119000	63500	21300 J	1550	368 J
	10/20/07	0	FD	2.9 J-	11600	9.2 R	15.8 J	297 J-	0.72 J	29.7 J-	13.3	59.8 J-	54.1 J-	58.8 J	3.6 J	2680 J	373 J	16.1	1.5 U	5.4	150 J	281 J-	143000	58900	31200 J	1780	434 J
	10/20/07	1	N	1.8 J-	14900	7.7 R	11.5 J	442 J-	1.1	23.1 J-	7.3	82.6 J-	17.5 J-	54.4 J	6.7 J	535 J	150 J	16.4	1.3 U	3.2 U	156 J	205 J-	59600	34500	19700 J	2210	356 J
Ore Cart Trestle																											
OCT-1	10/19/07	0	N	217	2020	6.4 R	3.3 J	37.4 J-	0.14 J	11.1	0.54 UJ	9.4 J	7.6 J	18.8	12.3 J-	35.2 J	35.9 J	3.8 UJ	1.1 U	3.2 J	9.8 J	32.3 J	1400 J	12700 J	834	2310	83.7 J
	10/19/07	1	N	49.6	2400	6.8 R	19.8	29.6 J-	0.2 J	8.3 J-	0.21 J	38.5 J-	26.4 J	56.1	9 J-	128 J	182 J-	3.9 U	1.1 U	6.5	25.6 J-	64.8	29600 J-	46400 J	880	1910	128
OCT-2	10/19/07	0	N	51.5	13800	7.1 R	4.2 J	359 J-	0.99	24.6	2.2 J	63.9 J	16.1 J	51.9	6.9 J-	468 J	112 J	4.2 UJ	1.2 U	8.2 J	48.1 J	99.8 J	61700 J	119000 J	19200	1130	117 J
OCT-3	10/19/07	0	N	8.4	5960	6.8 R	1.8 J	429 J-	0.64	22.9	1.4 J	42 J	23.1 J	65.3	2.6 J-	840 J	109 J	0.61 J-	1.1 U	1.3 J	41.2 J	78.8 J	173000 J	38300 J	66800	555 J	217 J
Possible Adit Road																											
PAR	10/19/07	0	N	197	2540	6.6 R	17.5	78.7 J-	0.48 J	8.1 J-	0.96	44.9 J-	27.8 J	52.8	9.1 J-	651 J	305 J-	3.8 U	1.1 U	22.2	45.7 J-	87.2	26900 J-	85300 J	14200	1310	106
	10/19/07	1	N	830	2990	6.9 R	10.7	254 J-	0.37 J-	9.8 J-	1.2	38.5 J-	13.1 J	40.6	6.4 J	455 J	112 J	4.3	1.1 U	54.9	47.7 J-	57.4	88800 J-	48700 J	38900	1750	252 J
Possible Assay Shed																											
PAS	10/19/07	0	N	57	2940	1.4 J-	8.1	92.5 J-	0.25 J	9 J-	0.24 J	43.8 J-	9.5 J	45.1	6.4 J-	671 J	84.1 J-	3.8 U	1.1 U	3.4	33.3 J-	30	26100 J-	27700 J	9560	1210	101
	10/19/07	1	N	28.2	11400	6.5 R	3.6	147 J-	0.53 J	14.4 J-	0.43 J	54.6 J-	33 J	43.1	5 J-	1030 J	289 J-	3.8 U	1.1 U	3.6	80.8 J-	73.6	25900 J-	48800 J	14900	1060	184

TABLE 4
Judgmental Soil Sample Chemical Analysis Results - Laboratory
Phase 1 Report
Klau and Buena Vista Mines

Sample Results, Project Goals, EPA Regional Screening Levels (mg/Kg)

Location	Date	Depth (ft)	Sample Type	Mercury	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Calcium	Iron	Magnesium	Potassium	Sodium
			Project Goals:	0.174	50	0.027	0.062	330	10	0.5	0.36	0.4	13	28	11	220	38	1	4.2	1	2	50	NA	23000	NA	NA	NA
			EPA Regional Screening Levels:	6.7	77000	31	0.39	15000	160	16000	70	210[1]	NA	3100	400	NA	1600	390	390	5.1	550	23000	NA	55000	NA	NA	NA
BVM																											
Regraded Clay Cap																											
RCC-1	10/18/07	0	N	14.1	4710	7.1 UJ	13 J	104 J-	0.56 J	20.4	0.6 J	51.1 J	22.9	61.6	4.1 J	718	170	4.1 UJ	1.2 U	1.9 J	66.4	89	20500	47000	23100	2470	379 J
	10/18/07	1	FD	7.1	1730	6.8 R	13.8 J	40.4 J-	0.47 J	9.8	0.43 J	57.8 J	26.7 J	48.4	8.1 J-	791 J	291 J	3.9 UJ	1.1 U	2.8 U	53.4 J	74 J	22500 J	40400 J	29300	1350	154 J
	10/18/07	1	N	1.9	2600	6.6 UJ	13.6 J	75.7 J-	0.4 J	13.6	0.44 J	45 J	21.9	45.6	3.2 J	649	180	3.8 UJ	1.1 U	1.7 J	55	62.4	21900	35100	21200	1800	159 J
RCC-2	10/18/07	0	N	19.1	2690	6.8 R	9.1 J	103 J-	0.47 J	44.4	0.58 J	49.6 J	23.6 J	56.5	8.6 J-	846 J	217 J	4 UJ	1.1 U	2.4 J	77.5 J	83.2 J	50800 J	56300 J	45400	1710	578
	10/18/07	1	N	4	4160	6.9 R	9.1 J	105 J-	0.58	20.1	0.49 J	70.8 J	37.3 J	58.3	8.8 J-	961 J	303 J	4 UJ	1.2 U	2.9 U	75.6 J	98.4 J	10400 J	61000 J	11700	1420	152 J
Regraded Upper Containment Pond Bottom																											
RPB	10/18/07	0	N	0.97	4670	7.3 R	205 J	27.3 J-	0.4 J	0.61 U	0.61 UJ	18 J	13.8 J	122	830 J-	1020 J	174 J	4.2 UJ	0.86 J	3 U	6.1 UJ	7.3 UJ	95500 J	218000 J	28800	1610	144 J
	10/18/07	1	N	3.4	3220	6.9 R	12.2 J	72.9 J-	0.62	24.7	0.75 J	55.3 J	21.8 J	48.4	6.8 J-	792 J	210 J	4 UJ	1.1 U	2.8 J	63 J	88.5 J	60000 J	74800 J	26800	1660	327 J
Rotary Furnace																											
BRF-1	10/19/07	0	N	645	3860	6.6 R	16.7	69.9 J-	0.69	5.7 J-	0.87	59.2 J-	46.6 J	85.6	25.7 J-	1170 J	363 J-	3.8 U	1.1 U	23.8	56 J-	316	7650 J-	68300 J-	2850	1160	168
	10/19/07	1	N	14300	3980	6.6 R	19.3	120 J-	0.76 J	6.9 J-	1.5	54.9 J-	29.7 J	140	41 J-	550 J	280 J	8.8	1.1 U	47.5	40.6 J-	429	6510 J-	108000 J	1260	1360	238
BRF-2	10/19/07	0	N	70	6400	6.8 R	12.2	311 J-	0.57	15.3 J	1.2	55.6 J-	26.4 J	52.2	5.5 J-	718 J	227 J-	4 U	1.1 U	13	54.1 J-	89.4	69600 J-	60300 J	35000	1440	166
	10/19/07	1	N	181	9420	7.1 R	17.8	171 J-	0.52 J	15.6 J-	0.95	61 J-	28.5 J	51.6	7.9 J-	672 J	265 J	4.2 U	1.2 U	51.2	61 J-	88.1	35600 J-	72900 J	21800	1570	181
Sediment Basin 1																											
SB1-1d	10/08/07	0	N	3.6	11100	6.5 R	4.9	608	0.75	28.2 J	1.8	61.2 J	18.8	52.4	4.5	611	108 J	3.6 J-	1.1 U	2.5 UJ	70.7	94.9	110000	39500 J	46600	2030 J	193 J
	10/18/07	1	N	15.2	10000	6.8 R	3 J	138 J-	0.54 J	16	0.42 J	33 J	21.3 J	38.5	5.2 J-	832 J	99.3 J	4 UJ	1.1 U	3 J	92.9 J	70 J	30700 J	49800 J	21000	1280	233 J
SB1-2	10/09/07	0	N	35	5320	6.2 R	14.9	210	0.53	21.3 J	0.32 J	56.2 J	26.5	60.1	7	805	224 J	1.8 J-	1 U	11.6 J	68.7	93.7	25900	43200 J	24400	1620 J	192 J
Sediment Basin 3																											
SB3	10/18/07	0	N	2.6	6110	6.9 R	14.5 J	135 J-	0.75	32.5	1.2 J	84.3 J	39.8 J	66.4	10.4 J-	1250 J	345 J	4 UJ	1.2 U	2.9 U	88.1 J	112 J	34800 J	72100 J	23000	1580	213 J
	10/18/07	1	N	0.069 J	2690	6.8 R	4.2 J	52.8 J-	0.3 J	38.3	0.23 J	50.1 J	27.2 J	53.2	4.5 J-	619 J	304 J	3.9 UJ	1.1 U	2.8 U	33.4 J	70.6 J	27000 J	35700 J	35600	1430	199 J
Statistics Summary: BVM																											
			Mean	590	5846	36.2	18.7	174	0.49	17	1.46	44.8	23.4	50	30.8	650	179	6.58	0.62	696	54.3	99	45388	61848	21078	1577	253
			Standard Deviation	2378	4759	38	34.7	136	0.24	9.7	2.28	21.2	10.7	26.5	135	440	103	6.06	0.38	3152	31.4	82.4	39178	40791	15620	575	216
			# of detects / Total measurements	37/37	37/37	4/37	35/37	37/37	36/37	33/37	34/37	37/37	35/37	37/37	37/37	37/37	37/37	10/37	6/37	27/37	36/37	35/37	37/37	37/37	34/37	37/37	37/37

TABLE 4
Judgmental Soil Sample Chemical Analysis Results - Laboratory
Phase 1 Report
Klau and Buena Vista Mines

Sample Results, Project Goals, EPA Regional Screening Levels (mg/Kg)

Location	Date	Depth (ft)	Sample Type	Mercury	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Calcium	Iron	Magnesium	Potassium	Sodium
			Project Goals:	0.174	50	0.027	0.062	330	10	0.5	0.36	0.4	13	28	11	220	38	1	4.2	1	2	50	NA	23000	NA	NA	NA
			EPA Regional Screening Levels:	6.7	77000	31	0.39	15000	160	16000	70	210[1]	NA	3100	400	NA	1600	390	390	5.1	550	23000	NA	55000	NA	NA	NA
KLAU																											
Former Mill Site																											
FMS-1	10/19/07	0	N	60	2830	6.4 R	9.2	30.6 J-	0.28 J	4.9 J-	0.29 J	105 J-	40.5 J	39.1	6.5 J-	566 J	599 J-	3.7 U	1.1 U	1.8 J	32.8 J-	46.1	6220 J-	40100 J	5480	1200	57.6
	10/19/07	0	FD	94.4	2980	6.6 R	9	35 J-	0.26 J	5 J-	0.29 J	104 J-	39 J	42.1	7.6 J-	616 J	589 J-	3.8 U	1.1 U	2 J	35.1 J-	46	5250 J-	44300 J	4550	1240	61.7
	10/20/07	1	N	57.5	1530	7 R	12.5 J	28.1 J-	0.5 UJ	6 J	0.19 J	27.6 J	19.8	37.6	3.4	398	217 J	4.1 UJ	1.9	4.7	55	32.1	635	45000	500 UJ	1490	63.7 J
FMS-2	10/19/07	0	N	133	1180	6.2 R	7.6	29.6 J-	0.07 J	3.4 J-	0.52 UJ	16.9 J-	5 J	10.7	9.7 J-	48.1 J	56 J	3.6 U	1 U	3.9	15 J-	6.3	471 J-	17400 J	500 J	1630	204
	10/20/07	1	N	99.1	2350	6.5 R	8 J	39 J-	0.5 UJ	6.7 J	0.35 J	79.1 J	39.6	44.2	3.1	756	560 J	3.8 UJ	1.5	1.4 J	27.4	39.9	10700	39900	8110	1220	79.9 J
Klau Mine Overburden Pit																											
KOP-1	10/10/07	0	N	2.3	5950	6.4 R	12.6	109	0.62	22.3 J	0.54 U	29.5 J	20.6	68.3	11.3	817	92 J	1.3 J-	1.1 U	2.7 UJ	51.7	85.4	8310	36500 J	7780	2710 J	98.1 J
KOP-2	10/10/07	0	N	253	1710	6.2 R	6.9	15.5 J	0.04 J	6 J	0.52 U	27.7 J	1.3 J	19.4	5.1	28.9	18.8 J	3.6 UJ	1 U	4.1 J	25.4	9.5	500 UJ	19100 J	500 UJ	1290 J	122 J
KOP-3	10/20/07	0	N	76.8 J-	2960	6.1 R	9 J	40.5 J-	0.28 J	15 J-	0.04 J	23.6 J-	13.6 J-	39.3 J	7.9 J	609 J	77.9 J	2.2 J	0.47 J	2.1 J	28 J	58 J-	1890	73900	2850 J	1870	41.7 J
	10/20/07	1	N	11.4 J-	2820	6.4 R	7.8 J	56.8 J-	0.38 J	23.7 J-	0.54 U	21.6 J-	17.9 J-	44.7 J	9.2 J	699 J	59.7 J	0.83 J	1.1	2.7 U	35.1 J	74.6 J-	10100	35900	12800 J	2350	97.4 J
Klau Mine Pit																											
KMP	10/19/07	0	N	85.9	4110	6.9 R	6.9	35.1 J-	0.33 J	5.8 J-	0.15 J	90.6 J-	51.5 J	37.6	8 J-	677 J	461 J-	4 U	1.1 U	2.7 J	35.5 J-	46.6	4410 J-	29200 J	2050	1520	75.6
	10/20/07	1	N	54.4	1860	6.9 R	1.1 UJ	20 J-	0.29 J	7.7 J-	0.58	38.2 J-	110 J	43	4.3 J-	2110 J	1520 J-	4 U	1.1 U	0.98 J	50.4 J-	92.2	15700 J-	61900 J	8090	1860	122
Klau Pond Condenser																											
KPC	10/20/07	0	N	15.8 J-	12900	6.6 R	6 J	64.6 J-	0.41 J	16.4 J-	0.26 J	96.9 J-	25.1 J-	65.2 J	18.7 J	882 J	245 J	1.8 J	0.47 J	2.8 U	58.4 J	120 J-	10600	73500	13300 J	2490	72.6 J
	10/20/07	1	N	2 J-	15000	7 R	5.4 J	76 J-	0.53 J	13.7 J-	0.22 J	128 J-	29.5 J-	56.9 J	8.6 J	909 J	284 J	1.7 J	0.6 J	2.9 U	67.7 J	77.5 J-	5200	45200	12100 J	2040	62.1 J
Rock Outcrop																											
ROC	10/24/07	0	N	163 J	1970	4.9 J	4	41.5 J-	0.03 J	3.6	0.51 UJ	46.4	0.18 J	8.9	5.8 J	19.6	3.2 J	0.95 J	0.4 J	5.2	18.3	2.4 J	371 J	16700	203 J	865	41.8 J
Sediment Basin 4																											
SB4	10/19/07	0	N	89	8300	7 R	8.6	77.7 J-	0.51 J	15 J-	0.41 J	174 J-	64.4 J	51	8.5 J-	952 J	916 J-	4.1 U	1.2 U	2.4 J	41.9 J-	64.4	8220 J-	38700 J	12300	2100	93.1
	10/20/07	1	N	41.5 J-	17600	6.6 R	9.3 J	106 J-	0.57	14.9 J-	0.37 J	197 J-	56.5 J-	42 J	10.7 J	1120 J	857 J	0.66 J	0.36 J	2.7 U	55.5 J	76.7 J-	27300	43000	25400 J	1890	109 J
Waste Pile 1																											
WP1	10/20/07	0	N	267 J-	1420	3.3 J-	8.8 J	20.3 J-	0.03 J	5.5 J-	0.53 U	43.1 J-	5 J-	12.1 J	5.9 J	17.2 J	13.4 J	3.7 U	0.14 J	5.9	19.8 J	4.3 J-	49.2 J	14500	137 J	1080	49.4 J
	10/20/07	1	N	299 J-	1350	3.7 J-	5.9 J	17.8 J-	0.03 J	4.6 J-	0.53 U	29.9 J-	5 J-	7.6 J	6 J	7.2 J	17.5 J	3.7 U	0.21 J	7.6	17.5 J	4.9 J-	14.1 J	10500	70 J	998	54.9 J
Waste Pile 2																											
WP2	10/20/07	0	FD	248 J-	1330	4.3 J-	7 J	14.5 J-	0.03 J	4.6 J-	0.52 U	48.9 J-	5 J-	17.8 J	10.3 J	6.5 J	9.1 J	3.6 U	0.44 J	4.5	21.3 J	2 J-	22.7 J	19700	94.4 J	1040	43.4 J
	10/20/07	0	N	203 J-	1450	5.4 J-	6.8 J	17.2 J-	0.03 J	4.7 J-	0.52 U	36.3 J-	5 J-	11.5 J	8 J	10.1 J	14.9 J	3.6 U	0.39 J	4.6	20.7 J	2.7 J-	24.8 J	15500	126 J	1120	50.3 J
Waste Pile 3																											
WP3	10/20/07	0	N	73.9 J-	14600	6.4 R	75.8 J	97 J-	0.5 J	11.8 J-	0.61	97.8 J-	62.3 J-	50.8 J	22.8 J	974 J	946 J	2 J	0.75 J	2.7 U	55.6 J	107 J-	5020	42100	15600 J	2260	88.8 J
Waste Pile Creek																											
WPC	10/20/07	0	N	3.1 J	11600	6.3 UJ	6.3	81.4 J-	0.48 J	12.4	0.47 J	83.5	34	46.1	7.5 J	1330	380	1.1 J	0.86 J	2.6 U	64.6	121	18000 J	57100	23700 J	1360	141 J
Waste Rock Pile																											
WRP	10/19/07	0	N	152	5500	6.7 R	22.5	27.7 J-	0.09 J	5.1 J-	0.93	670 J-	78.9 J	54.1	11 J-	171 J	1150 J	3.9 U	0.48 J	10.1	59.8 J-	69.6	594 J-	92700 J	841	1730	31.6
	10/20/07	1	N	113	1660	6.7 R	20.5 J	38.4 J-	0.5 UJ	7.9 J	0.41 J	151 J	33.2	43.2	5.7	125	377 J	3.9 UJ	1.9	8.1	35.6	27.2	1300	53900	500 UJ	1300	51 J

TABLE 4
Judgmental Soil Sample Chemical Analysis Results - Laboratory
Phase 1 Report
Klau and Buena Vista Mines

Sample Results, Project Goals, EPA Regional Screening Levels (mg/Kg)

Location	Date	Depth (ft)	Sample Type	Mercury	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Calcium	Iron	Magnesium	Potassium	Sodium
			Project Goals:	0.174	50	0.027	0.062	330	10	0.5	0.36	0.4	13	28	11	220	38	1	4.2	1	2	50	NA	23000	NA	NA	NA
			EPA Regional Screening Levels:	6.7	77000	31	0.39	15000	160	16000	70	210[1]	NA	3100	400	NA	1600	390	390	5.1	550	23000	NA	55000	NA	NA	NA
KLAU																											
Western Mill Area																											
WMA	10/20/07	0	N	220	1050	3.3 J-	8.8 J	25.1 J-	0.5 UJ	3.8 J	0.04 J	34.5 J	0.84 J	17.9	6.3	12.5	17.1 J	0.43 J-	0.74 J	6.8	23.5	6 UJ	500 UJ	19800	500 UJ	1240	70.9 J
	10/20/07	1	N	105 J-	5920	6.9 R	0.45 J	149 J-	0.66	46.5 J-	0.16 J	59.7 J-	22.7 J-	40.9 J	0.87 J	630 J	365 J	1.7 J	1.1 U	2.9 U	22.8 J	28.8 J-	86500	31500	48400 J	618	92.1 J
Western Mill Drainage																											
WMD-1	10/26/07	0	N	130	15500	6.4 UJ	3.9 J	71.4 J-	0.28 J	19	1.2	111	20.8	41.2 J	8.7 J	593	244	3.7 U	1.1 U	2.3 J	41.7	73.3	16200 J+	30600	24700	2210 J	113 J
WMD-2	10/26/07	0	N	409	9750	6.1 UJ	9.1 J	58.2 J-	0.16 J	8.5	0.99	93.1	19.4	42.1 J	10.1 J	249	279	3.6 U	1 U	5.6	32.3	43.3	2850 J+	30300	7920	2380 J	229 J
WMD-3	10/26/07	0	N	0.1 U	30900	6.1 UJ	3.1 J	54.6 J-	0.44 J	9.4	1.9	275	31.7	51.6 J	7.2 J	836	377	3.6 U	1 U	1.7 J	66	78.3	20100 J+	43300	50500	1600 J	96.9 J
WMD-4	10/26/07	0	N	9.8	18400	6.1 UJ	5.8 J	68.8 J-	0.3 J	10.6	1.5	75	23.1	65 J	12 J	729	141	3.6 U	1 U	1.6 J	58.1	80.4	11600 J+	41200	19300	2160 J	150 J
Western Retort																											
M06	10/16/07	0	N	129	3090	1.6 J	11.7	26.3 J-	0.16 J	4.3	0.18 J	99.7	11.5	25.2	10.5	261	184	3.7 U	1.1 J+	1.4 J	29.6	29.5	2010	28800	9190	1140	59.2 J
WRT	10/20/07	0	N	10500 J-	7620	7.3 R	94.8 J	110 J-	0.47 J	17 J-	1.7	256 J-	59.5 J-	52.9 J	98.1 J	1210 J	926 J	3.9 J	1.1 J	3.4	46.6 J	1230 J-	8240	64300	9550 J	2450	354 J
	10/20/07	1	N	1080 J-	8400	6.5 R	14.7 J	79.9 J-	0.56	15.4 J-	0.22 J	47 J-	17.8 J-	59.9 J	14.1 J	712 J	117 J	3.8 U	1 J	2.7 U	48.7 J	130 J-	22100	39600	14600 J	2220	102 J
	10/20/07	1	FD	1310 J-	7830	6.2 R	10 J	71.8 J-	0.52	13.7 J-	0.11 J	45.6 J-	15.3 J-	48.9 J	12 J	642 J	95.7 J	1.5 J	0.92 J	2.6 U	41.2 J	84.2 J-	19300	33100	12900 J	1970	97.8 J
Western Retort Creek																											
WRC	10/20/07	0	N	6.3 J-	18800	6.7 UJ	9.3	67.2 J-	0.76	7.4	0.22 J	97	32.7	40.4	14.5 J	905	251	1.4 J	0.95 J	2.8 U	48.5	69.1	3590 J	38700	15300 J	1820	86.3 J
	10/20/07	2	N	2.9 J-	20300	6.3 UJ	8.2	71.2 J-	0.8	7.8	0.2 J	82.5	23.5	41.5	16.4 J	844	148	3.6 U	0.71 J	2.6 U	49.3	69.9	3610 J	35800	16500 J	1980	84.4 J
	10/20/07	4	N	375 J-	33400	11.6 UJ	63.5	136 J-	0.91 J	16.4	0.69 J	387	139	88.1	20 J	1330	2240	3 J	1.3 J	4.8 U	98.6	170	11800 J	70900	22100 J	3450	231 J
Western Retort Seep																											
WRS	10/23/07	0	N	15.7 J	4660	7 UJ	4.6	140 J-	0.56 J	51.4	0.13 J	56	28.2	35.1	7.8 J	706	361	0.82 J	0.79 J	2.9 U	34.2	84.3	25500 J	33300	10600 J	2230	200 J
Western Retort Waste																											
WRW	10/23/07	0	N	257 J	1830	1.8 J	6.2	19.7 J-	0.02 J	6.5	0.51 UJ	37.5	0.73 J	6.9	8.7 J	3	12.2	3.6 U	0.3 J	13.1	20.4	2.7 J	31.8 J	12900	81.5 J	1440	45.8 J
Statistics Summary: KLAU																											
			Mean	442	8340	3.43	14.4	60.8	0.36	12.3	0.53	109	35.3	40.1	11.7	617	403	1.59	0.81	4.41	41.4	93.1	10272	39536	12892	1758	103
			Standard Deviation	1760	8380	1.42	20.6	37.4	0.25	10.6	0.51	125	30.7	19	15.5	482	483	0.93	0.49	3.1	18.4	202	15547	19253	12388	598	67.1
			# of detects / Total measurements	35/36	36/36	7/36	35/36	35/36	32/36	36/36	27/36	36/36	32/36	36/36	36/36	36/36	36/36	15/36	24/36	23/36	36/36	35/36	34/36	36/36	31/36	36/36	36/36
Statistics Summary: Overall																											
			Mean	518	7076	15.3	16.6	119	0.43	14.5	1.05	76.5	29.1	45.1	21.4	634	289	3.59	0.78	378	47.9	96.2	28572	50845	17174	1666	179
			Standard Deviation	2087	6858	26.6	28.4	115	0.25	10.4	1.79	94.2	23.2	23.5	96.7	458	363	4.53	0.47	2322	26.4	153	34864	33739	14654	589	177
			# of detects / Total measurements	72/73	73/73	11/73	70/73	72/73	68/73	69/73	61/73	73/73	67/73	73/73	73/73	73/73	73/73	25/73	30/73	50/73	72/73	70/73	71/73	73/73	65/73	73/73	73/73

Notes:

[1] There is no screening level for Chromium in the EPA Regional Screening Level table, the 2004 preliminary remediation goal is shown.

Sample Type:

N	Normal
FD	Field duplicate (not included in statistics)

Screening Level:

Project Goals (CH2M HILL QAPP, 2007)
EPA Regional Screening Levels (EPA, 2008)

Sample Results:

Detected results are shown in bold.
Results greater than Project Goals are circled.
Results greater than PRGs are boxed.

mg/Kg	milligrams per kilogram
NA	Not applicable
J	Estimated value (- biased low, + biased high)
U	not detected at or above the listed reporting limit.
R	Rejected value