

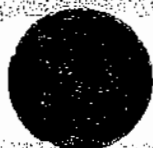
Report No. UKH/96/01

United Keno Hill Mines Limited

Site Characterization

Technical Appendices VII - X

June 3, 1996



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Appendix VII - Appendix X

Appendix VII

Water Chemistry Database

- **VII - 1 UKHM Statistical Database Summary**
- **VII - 2 LES Database**
- **VII - 3 Detailed Database**

STATISTIC	QUARTER	DATE	TEMP	FLOW	pH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-1, Tailings Pond Effluent													
2DD-S1	Jan. - Mar.	average	0.5	0.5	7.34	633	18	0.011	0.035	5.50	3.05	0.025	0.20
		max.	10.0	19.5	9.57	1780	192	0.310	0.520	42.92	20.00	0.590	2.23
		min.	0.0	-0.1	0.00	0	-1	-0.010	-0.010	-0.01	-0.01	-0.010	-0.01
		number	277	277	277	277	277	277	277	277	277	275	275
2DD-S1	Apr. - Jun.	average	4.7	55.1	7.79	436	18	0.014	0.046	1.58	1.06	0.052	0.39
		max.	17.8	9713.0	11.03	1800	397	0.620	0.710	29.80	18.30	1.200	3.49
		min.	0.0	-0.1	0.00	0	-1	-0.010	-0.010	-0.01	0.00	-0.010	-0.01
		number	566	567	566	566	566	566	566	566	566	564	564
2DD-S1	Jul. - Sept.	average	7.3	4.1	7.75	603	9	0.008	0.018	0.26	0.06	0.041	0.11
		max.	20.0	69.7	9.19	1398	32	0.400	0.300	1.11	1.03	1.740	0.98
		min.	0.0	-0.1	0.00	0	-1	-0.010	-0.010	-0.01	-0.01	-0.500	-0.01
		number	495	495	495	495	495	495	495	495	495	493	493
2DD-S1	Oct. - Dec.	average	0.9	2.6	7.11	576	15	0.006	0.047	2.17	0.73	0.017	0.31
		max.	14.0	49.0	9.12	1700	722	0.090	0.500	38.00	13.70	0.620	1.07
		min.	0.0	-0.1	0.00	0	-1	-0.010	-0.010	-0.01	-0.01	-0.500	-0.01
		number	498	498	498	498	498	498	498	498	498	497	497

STATISTIC	QUARTER	DATE	TEMP	FLOW	pH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-1, Tailings Pond Effluent													
2DD-S1	Jan. - Mar.	average	0.5	0.5	7.34	633	18	0.011	0.035	5.50	3.05	0.025	0.20
		max.	10.0	19.5	9.57	1780	192	0.310	0.520	42.92	20.00	0.590	2.23
		min.	0.0	-0.1	0.00	0	-1	-0.010	-0.010	-0.01	-0.01	-0.010	-0.01
		number	277	277	277	277	277	277	277	277	277	275	275
2DD-S1	Apr. - Jun.	average	4.7	55.1	7.79	436	18	0.014	0.046	1.58	1.06	0.052	0.39
		max.	17.8	9713.0	11.03	1800	397	0.620	0.710	29.80	18.30	1.200	3.49
		min.	0.0	-0.1	0.00	0	-1	-0.010	-0.010	-0.01	0.00	-0.010	-0.01
		number	566	567	566	566	566	566	566	566	566	564	564
2DD-S1	Jul. - Sept.	average	7.3	4.1	7.75	603	9	0.008	0.018	0.26	0.06	0.041	0.11
		max.	20.0	69.7	9.19	1398	32	0.400	0.300	1.11	1.03	1.740	0.98
		min.	0.0	-0.1	0.00	0	-1	-0.010	-0.010	-0.01	-0.01	-0.500	-0.01
		number	495	495	495	495	495	495	495	495	495	493	493
2DD-S1	Oct. - Dec.	average	0.9	2.6	7.11	576	15	0.006	0.047	2.17	0.73	0.017	0.31
		max.	14.0	49.0	9.12	1700	722	0.090	0.500	38.00	13.70	0.620	1.07
		min.	0.0	-0.1	0.00	0	-1	-0.010	-0.010	-0.01	-0.01	-0.500	-0.01
		number	498	498	498	498	498	498	498	498	498	497	497

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STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-2, U.N. Adit														
2DD-S02	1	Jan.-Mar.	number	0	0	0	0	0	0	0	0	0	0	0
2DD-S02	2	Apr. - Jun.	average	3.0	0.2	7.73	334	10	0.018	0.018	0.32	0.15	0.051	0.13
			max.	8.0	0.8	8.40	410	24	0.040	0.030	1.10	0.26	0.180	0.45
			min.	1.0	0.0	6.90	240	4	0.010	0.010	0.03	0.00	0.010	0.03
			number	8	8	8	8	7	6	6	8	8	7	7
2DD-S02	3	Jul. - Sept.	average	2.7	0.3	7.64	354	8	0.048	0.017	0.52	0.31	0.078	0.20
			max.	7.0	0.9	7.80	562	28	0.220	0.060	3.90	0.81	0.430	0.31
			min.	0.0	0.0	7.39	100	0	0.010	0.000	0.01	0.02	0.010	0.02
			number	14	14	14	14	14	11	10	14	14	9	9
2DD-S02	4	Oct. - Dec.	average	0.0	0.1	7.60	285	9	0.020	0.020	0.63	0.16	0.040	1.10
			max.	0.0	0.1	7.60	285	28	0.020	0.020	1.90	0.47	0.040	1.10
			min.	0.0	0.1	7.60	285	0	0.020	0.020	0.00	0.00	0.040	1.10
			number	3	1	1	1	3	1	1	3	3	1	1

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STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-8, Onek Adit														
2DD-S08	1 Jan.-Mar.	average		3.1	0.2	7.40	696	14	0.348	0.076	0.62	3.69	0.029	34.07
		max.		20.0	0.4	8.00	1800	40	1.240	0.340	2.03	9.33	0.090	78.00
		min.		0.0	0.1	6.90	200	0	0.010	0.010	0.01	0.01	0.000	0.01
		number		12	8	12	12	12	12	10	11	12	10	12
2DD-S08	2 Apr. - Jun.	average		4.0	0.3	7.15	789	16	2.682	0.033	0.76	8.57	0.057	71.08
		max.		9.0	0.6	7.80	1050	40	7.630	0.110	2.17	21.89	0.290	213.00
		min.		0.0	0.1	6.00	140	0	0.010	0.002	0.01	0.01	0.000	0.03
		number		18	17	18	18	16	18	18	18	18	16	18
2DD-S08	3 Jul.- Sept.	average		4.8	0.3	7.33	837	24	1.344	0.034	1.14	6.20	0.520	66.59
		max.		15.0	0.7	7.80	1280	60	3.450	0.180	2.97	11.08	5.200	191.00
		min.		1.0	0.0	6.80	540	0	0.130	0.000	0.02	0.98	0.005	10.00
		number		14	14	14	14	14	14	13	14	14	11	14
2DD-S08	4 Oct. - Dec.	average		0.2	0.2	7.20	783	27	0.663	0.012	2.35	1.35	2.050	49.52
		max.		1.0	0.7	7.50	1050	52	0.840	0.020	6.44	4.48	5.800	91.17
		min.		0.0	0.0	7.00	550	12	0.520	0.010	0.10	0.23	0.010	21.80
		number		6	6	6	6	6	6	6	6	6	5	6

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STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-12, Bellekeno 600 Adit - before treatment														
2DD-S12	1 Jan.-Mar.	average		2.5	2.0	8.03	862	132	0.074	0.142	6.17	0.30	1.086	2.76
		max.		10.0	5.5	10.00	1870	999	0.860	1.830	43.40	2.62	14.800	23.40
		min.		0.0	0.5	7.38	290	<1	0.010	0.010	0.00	<0.01	0.010	0.01
		number		22	13	22	20	22	22	22	22	22	21	22
2DD-S12	2 Apr. - Jun.	average		3.7	1.9	7.77	723	69	0.022	0.026	2.05	0.31	0.262	1.54
		max.		10.0	8.0	8.21	1400	999	0.070	0.130	24.20	1.98	2.680	3.59
		min.		0.0	0.0	7.10	279	0	0.001	0.002	<0.01	<0.01	0.000	0.06
		number		27	22	27	27	27	26	25	27	27	25	27
2DD-S12	3 Jul.- Sept.	average		3.4	2.6	7.87	692	54	0.036	0.028	2.13	0.35	0.362	2.22
		max.		10.0	6.7	8.25	1300	444	0.140	0.130	20.20	1.84	3.860	8.06
		min.		0.0	1.5	7.31	84	0	0.001	0.002	0.00	0.00	0.010	0.01
		number		24	19	24	24	24	24	23	24	24	22	24
2DD-S12	4 Oct. - Dec.	average		1.7	2.2	7.79	748	19	0.066	0.023	1.14	0.45	0.172	2.15
		max.		5.0	3.7	8.40	1316	48	0.400	0.140	13.30	2.54	1.790	7.74
		min.		0.0	1.0	6.90	320	2	0.010	0.010	0.03	0.00	0.010	0.18
		number		23	17	23	22	23	23	23	23	23	22	23

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STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-13, Silver King Adit - before treatment														
2DD-S13	1 Jan.-Mar.	average		1.3	8.6	7.02	651	40	0.013	0.033	10.03	1.23	0.017	0.84
		max.		10.0	30.0	8.00	1110	287	0.040	0.200	46.40	3.19	0.070	2.21
		min.		0.0	3.0	6.54	420	8	0.000	0.010	0.00	0.00	0.000	0.01
		number		23	13	23	21	23	23	23	23	23	22	23
2DD-S13	2 Apr. - Jun.	average		2.5	7.1	6.87	674	31	0.023	0.097	15.93	2.29	0.035	1.41
		max.		8.0	20.0	8.07	1020	91	0.130	0.670	33.40	11.23	0.260	3.98
		min.		0.0	2.9	5.87	440	0	<0.001	<0.002	0.40	0.00	<0.005	0.09
		number		27	20	27	27	27	27	27	27	27	23	27
2DD-S13	3 Jul. - Sept.	average		4.6	5.6	6.92	625	46	0.050	0.195	14.33	2.48	0.055	1.54
		max.		34.0	9.0	8.64	1015	96	0.640	0.860	31.70	7.19	0.510	4.76
		min.		0.0	3.0	6.07	395	8	0.003	0.002	0.30	0.00	0.005	0.02
		number		24	19	24	24	23	24	24	24	24	23	24
2DD-S13	4 Oct. - Dec.	average		4.6	5.6	6.92	625	46	0.050	0.195	14.33	2.48	0.055	1.54
		max.		34.0	9.0	8.64	1015	96	0.640	0.860	31.70	7.19	0.510	4.76
		min.		0.0	3.0	6.07	395	8	0.003	0.002	0.30	0.00	0.005	0.02
		number		24	19	24	24	23	24	24	24	24	23	24

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STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-14, Lucky Queen Adit														
2DD-S14	1	Jan.-Mar.	number	0	0	0	0	0	0	0	0	0	0	0
	2	Apr. - Jun.	average	2.7	0.7	7.47	128	23	0.010	0.112	0.16	0.22	0.034	0.18
			max.	5.0	2.0	8.30	255	92	0.010	0.610	0.28	0.89	0.080	0.48
			min.	1.0	0.0	6.50	60	0	0.010	0.010	0.00	0.00	0.000	0.02
			number	10	10	10	10	8	6	6	9	7	8	9
2DD-S14	3	Jul.- Sept.	average	2.7	0.5	7.67	87	7	0.030	0.000	0.00	0.00	0.010	0.06
			max.	4.0	0.5	7.80	90	8	0.030	0.000	0.00	0.00	0.010	0.06
			min.	1.0	0.5	7.60	80	4	0.030	0.000	0.00	0.00	0.010	0.06
			number	3	2	3	3	3	1	0	2	2	1	1
2DD-S14	4	Oct. - Dec.	number	0	0	0	0	0	0	0	0	0	0	0

STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-15, Ruby Adit														
2DD-S15	1 Jan.-Mar.	average		1.9	1.1	7.56	340	8	0.030	0.012	0.28	3.98	0.036	1.00
		max.		11.0	1.5	7.90	450	32	0.100	0.030	1.24	7.45	0.160	2.26
		min.		0.0	0.3	6.90	260	0	0.010	0.000	0.01	0.10	0.000	0.01
		number		8	7	8	8	8	7	5	8	8	8	8
2DD-S15	2 Apr. - Jun.	average		2.1	1.5	7.45	311	11	0.068	0.013	1.74	4.56	0.057	2.09
		max.		5.0	2.5	8.10	460	32	0.160	0.030	3.68	10.74	0.200	5.23
		min.		1.0	0.0	6.61	230	2	0.000	0.010	0.00	0.05	0.010	0.01
		number		16	15	15	16	14	14	14	16	16	13	16
2DD-S15	3 Jul.- Sept.	average		3.0	1.8	7.72	391	15	0.074	0.015	2.07	6.51	0.081	2.06
		max.		6.0	3.3	8.00	890	44	0.410	0.040	8.20	12.37	0.470	4.78
		min.		1.0	0.2	7.40	260	0	0.020	0.010	0.14	1.13	0.010	0.03
		number		15	15	15	15	15	14	13	15	15	9	15
2DD-S15	4 Oct. - Dec.	average		0.5	1.5	7.72	306	11	0.035	0.019	2.22	4.46	0.087	1.74
		max.		2.0	2.0	8.10	524	20	0.140	0.050	7.54	8.10	0.470	3.22
		min.		0.0	0.7	7.40	160	0	0.000	0.000	0.00	0.00	0.010	0.07
		number		13	12	12	12	13	11	8	13	13	12	12

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STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-16, Elsa Mine														
2DD-S16	1 Jan.-Mar.	average		4.1	0.0	8.11	690	12	0.015	0.019	0.87	0.27	0.014	0.13
		max.		20.0	0.0	8.60	1080	88	0.040	0.040	1.65	0.67	0.030	0.71
		min.		1.5	0.0	7.20	200	0	0.000	0.000	0.02	0.01	0.000	0.01
		number		15	13	15	15	15	12	14	14	14	14	13
2DD-S16	2 Apr. - Jun.	average		3.9	0.0	7.79	709	17	0.033	0.053	1.57	1.34	0.058	0.27
		max.		8.0	0.0	8.40	1090	56	0.210	0.390	10.51	16.23	0.210	2.37
		min.		1.0	0.0	7.30	330	8	0.000	0.010	0.03	0.00	0.000	0.02
		number		17	16	17	17	15	12	16	17	17	16	16
2DD-S16	3 Jul.- Sept.	average		3.0	0.6	7.74	556	13	0.058	0.078	0.84	1.03	0.067	0.22
		max.		5.0	6.7	8.00	745	32	0.450	0.720	2.40	3.40	0.450	1.60
		min.		0.0	0.0	7.20	380	0	0.010	0.010	0.04	0.04	0.000	0.01
		number		13	12	15	15	15	12	15	15	15	12	13
2DD-S16	4 Oct. - Dec.	average		2.3	0.0	7.93	575	11	0.010	0.018	1.03	1.25	0.081	0.29
		max.		5.0	0.0	8.40	980	24	0.020	0.060	2.12	5.80	0.430	1.20
		min.		0.0	0.0	7.38	280	0	0.000	0.010	0.01	0.00	0.010	0.00
		number		14	12	14	14	14	13	13	14	14	12	13

STATISTIC	QUARTER	DATE	STATISTIC	TEMP	FLOW	pH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-1, Tailings Pond Effluent														
2DD-S1	Jan. - Mar.	average		0.5	0.5	7.34	633	18	0.011	0.035	5.50	3.05	0.025	0.20
		max.		10.0	19.5	9.57	1780	192	0.310	0.520	42.92	20.00	0.590	2.23
		min.		0.0	-0.1	0.00	0	-1	-0.010	-0.010	-0.01	-0.01	-0.010	-0.01
		number		277	277	277	277	277	277	277	277	277	275	275
2DD-S1	Apr. - Jun.	average		4.7	55.1	7.79	436	18	0.014	0.046	1.58	1.06	0.052	0.39
		max.		17.8	9713.0	11.03	1800	397	0.620	0.710	29.80	18.30	1.200	3.49
		min.		0.0	-0.1	0.00	0	-1	-0.010	-0.010	-0.01	0.00	-0.010	-0.01
		number		566	567	566	566	566	566	566	566	566	564	564
2DD-S1	Jul. - Sept.	average		7.3	4.1	7.75	603	9	0.008	0.018	0.26	0.06	0.041	0.11
		max.		20.0	69.7	9.19	1398	32	0.400	0.300	1.11	1.03	1.740	0.98
		min.		0.0	-0.1	0.00	0	-1	-0.010	-0.010	-0.01	-0.01	-0.500	-0.01
		number		495	495	495	495	495	495	495	495	495	493	493
2DD-S1	Oct. - Dec.	average		0.9	2.6	7.11	576	15	0.006	0.047	2.17	0.73	0.017	0.31
		max.		14.0	49.0	9.12	1700	722	0.090	0.500	38.00	13.70	0.620	1.07
		min.		0.0	-0.1	0.00	0	-1	-0.010	-0.010	-0.01	-0.01	-0.500	-0.01
		number		498	498	498	498	498	498	498	498	498	497	497

STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-15, Ruby Adit														
2DD-S15	1 Jan.-Mar.	average		1.9	1.1	7.56	340	8	0.030	0.012	0.28	3.98	0.036	1.00
		max.		11.0	1.5	7.90	450	32	0.100	0.030	1.24	7.45	0.160	2.26
		min.		0.0	0.3	6.90	260	0	0.010	0.000	0.01	0.10	0.000	0.01
		number		8	7	8	8	8	7	5	8	8	8	8
2DD-S15	2 Apr. - Jun.	average		2.1	1.5	7.45	311	11	0.068	0.013	1.74	4.56	0.057	2.09
		max.		5.0	2.5	8.10	460	32	0.160	0.030	3.68	10.74	0.200	5.23
		min.		1.0	0.0	6.61	230	2	0.000	0.010	0.00	0.05	0.010	0.01
		number		16	15	15	16	14	14	14	16	16	13	16
2DD-S15	3 Jul.- Sept.	average		3.0	1.8	7.72	391	15	0.074	0.015	2.07	6.51	0.081	2.06
		max.		6.0	3.3	8.00	890	44	0.410	0.040	8.20	12.37	0.470	4.78
		min.		1.0	0.2	7.40	260	0	0.020	0.010	0.14	1.13	0.010	0.03
		number		15	15	15	15	15	14	13	15	15	9	15
2DD-S15	4 Oct. - Dec.	average		0.5	1.5	7.72	306	11	0.035	0.019	2.22	4.46	0.087	1.74
		max.		2.0	2.0	8.10	524	20	0.140	0.050	7.54	8.10	0.470	3.22
		min.		0.0	0.7	7.40	160	0	0.000	0.000	0.00	0.00	0.010	0.07
		number		13	12	12	12	13	11	8	13	13	12	12

United Keno Hill Mines Limited
Closure Plan - Draft

STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-16, Elsa Mine														
2DD-S16	1 Jan.-Mar.	average		4.1	0.0	8.11	690	12	0.015	0.019	0.87	0.27	0.014	0.13
		max.		20.0	0.0	8.60	1080	88	0.040	0.040	1.65	0.67	0.030	0.71
		min.		1.5	0.0	7.20	200	0	0.000	0.000	0.02	0.01	0.000	0.01
		number		15	13	15	15	15	12	14	14	14	14	13
2DD-S16	2 Apr. - Jun.	average		3.9	0.0	7.79	709	17	0.033	0.053	1.57	1.34	0.058	0.27
		max.		8.0	0.0	8.40	1090	56	0.210	0.390	10.51	16.23	0.210	2.37
		min.		1.0	0.0	7.30	330	8	0.000	0.010	0.03	0.00	0.000	0.02
		number		17	16	17	17	15	12	16	17	17	16	16
2DD-S16	3 Jul.- Sept.	average		3.0	0.6	7.74	556	13	0.058	0.078	0.84	1.03	0.067	0.22
		max.		5.0	6.7	8.00	745	32	0.450	0.720	2.40	3.40	0.450	1.60
		min.		0.0	0.0	7.20	380	0	0.010	0.010	0.04	0.04	0.000	0.01
		number		13	12	15	15	15	12	15	15	15	12	13
2DD-S16	4 Oct. - Dec.	average		2.3	0.0	7.93	575	11	0.010	0.018	1.03	1.25	0.081	0.29
		max.		5.0	0.0	8.40	980	24	0.020	0.060	2.12	5.80	0.430	1.20
		min.		0.0	0.0	7.38	280	0	0.000	0.010	0.01	0.00	0.010	0.00
		number		14	12	14	14	14	13	13	14	14	12	13

STATISTIC	QUARTER	DATE	STATISTIC	TEMP	FLOW	pH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-1, Tailings Pond Effluent														
2DD-S1	Jan. - Mar.	average		0.5	0.5	7.34	633	18	0.011	0.035	5.50	3.05	0.025	0.20
		max.		10.0	19.5	9.57	1780	192	0.310	0.520	42.92	20.00	0.590	2.23
		min.		0.0	-0.1	0.00	0	-1	-0.010	-0.010	-0.01	-0.01	-0.010	-0.01
		number		277	277	277	277	277	277	277	277	277	275	275
2DD-S1	Apr. - Jun.	average		4.7	55.1	7.79	436	18	0.014	0.046	1.58	1.06	0.052	0.39
		max.		17.8	9713.0	11.03	1800	397	0.620	0.710	29.80	18.30	1.200	3.49
		min.		0.0	-0.1	0.00	0	-1	-0.010	-0.010	-0.01	0.00	-0.010	-0.01
		number		566	567	566	566	566	566	566	566	566	564	564
2DD-S1	Jul. - Sept.	average		7.3	4.1	7.75	603	9	0.008	0.018	0.26	0.06	0.041	0.11
		max.		20.0	69.7	9.19	1398	32	0.400	0.300	1.11	1.03	1.740	0.98
		min.		0.0	-0.1	0.00	0	-1	-0.010	-0.010	-0.01	-0.01	-0.500	-0.01
		number		495	495	495	495	495	495	495	495	495	493	493
2DD-S1	Oct. - Dec.	average		0.9	2.6	7.11	576	15	0.006	0.047	2.17	0.73	0.017	0.31
		max.		14.0	49.0	9.12	1700	722	0.090	0.500	38.00	13.70	0.620	1.07
		min.		0.0	-0.1	0.00	0	-1	-0.010	-0.010	-0.01	-0.01	-0.500	-0.01
		number		498	498	498	498	498	498	498	498	498	497	497

United Keno Hill Mines Limited
Closure Plan - Draft

STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-2, U.N. Adit														
2DD-S02	1	Jan.-Mar.	number	0	0	0	0	0	0	0	0	0	0	0
2DD-S02	2	Apr. - Jun.	average	3.0	0.2	7.73	334	10	0.018	0.018	0.32	0.15	0.051	0.13
			max.	8.0	0.8	8.40	410	24	0.040	0.030	1.10	0.26	0.180	0.45
			min.	1.0	0.0	6.90	240	4	0.010	0.010	0.03	0.00	0.010	0.03
			number	8	8	8	8	7	6	6	8	8	7	7
2DD-S02	3	Jul. - Sept.	average	2.7	0.3	7.64	354	8	0.048	0.017	0.52	0.31	0.078	0.20
			max.	7.0	0.9	7.80	562	28	0.220	0.060	3.90	0.81	0.430	0.31
			min.	0.0	0.0	7.39	100	0	0.010	0.000	0.01	0.02	0.010	0.02
			number	14	14	14	14	14	11	10	14	14	9	9
2DD-S02	4	Oct. - Dec.	average	0.0	0.1	7.60	285	9	0.020	0.020	0.63	0.16	0.040	1.10
			max.	0.0	0.1	7.60	285	28	0.020	0.020	1.90	0.47	0.040	1.10
			min.	0.0	0.1	7.60	285	0	0.020	0.020	0.00	0.00	0.040	1.10
			number	3	1	1	1	3	1	1	3	3	1	1

United Keno Hill Mines Limited
Closure Plan - Draft

STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-2, U.N. Adit														
2DD-S02	1	Jan.-Mar.	number	0	0	0	0	0	0	0	0	0	0	0
2DD-S02	2	Apr. - Jun.	average	3.0	0.2	7.73	334	10	0.018	0.018	0.32	0.15	0.051	0.13
			max.	8.0	0.8	8.40	410	24	0.040	0.030	1.10	0.26	0.180	0.45
			min.	1.0	0.0	6.90	240	4	0.010	0.010	0.03	0.00	0.010	0.03
			number	8	8	8	8	7	6	6	8	8	7	7
2DD-S02	3	Jul. - Sept.	average	2.7	0.3	7.64	354	8	0.048	0.017	0.52	0.31	0.078	0.20
			max.	7.0	0.9	7.80	562	28	0.220	0.060	3.90	0.81	0.430	0.31
			min.	0.0	0.0	7.39	100	0	0.010	0.000	0.01	0.02	0.010	0.02
			number	14	14	14	14	14	11	10	14	14	9	9
2DD-S02	4	Oct. - Dec.	average	0.0	0.1	7.60	285	9	0.020	0.020	0.63	0.16	0.040	1.10
			max.	0.0	0.1	7.60	285	28	0.020	0.020	1.90	0.47	0.040	1.10
			min.	0.0	0.1	7.60	285	0	0.020	0.020	0.00	0.00	0.040	1.10
			number	3	1	1	1	3	1	1	3	3	1	1

United Keno Hill Mines Limited
Closure Plan - Draft

STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-8, Onek Adit														
2DD-S08	1 Jan.-Mar.	average		3.1	0.2	7.40	696	14	0.348	0.076	0.62	3.69	0.029	34.07
		max.		20.0	0.4	8.00	1800	40	1.240	0.340	2.03	9.33	0.090	78.00
		min.		0.0	0.1	6.90	200	0	0.010	0.010	0.01	0.01	0.000	0.01
		number		12	8	12	12	12	12	10	11	12	10	12
2DD-S08	2 Apr. - Jun.	average		4.0	0.3	7.15	789	16	2.682	0.033	0.76	8.57	0.057	71.08
		max.		9.0	0.6	7.80	1050	40	7.630	0.110	2.17	21.89	0.290	213.00
		min.		0.0	0.1	6.00	140	0	0.010	0.002	0.01	0.01	0.000	0.03
		number		18	17	18	18	16	18	18	18	18	16	18
2DD-S08	3 Jul.- Sept.	average		4.8	0.3	7.33	837	24	1.344	0.034	1.14	6.20	0.520	66.59
		max.		15.0	0.7	7.80	1280	60	3.450	0.180	2.97	11.08	5.200	191.00
		min.		1.0	0.0	6.80	540	0	0.130	0.000	0.02	0.98	0.005	10.00
		number		14	14	14	14	14	14	13	14	14	11	14
2DD-S08	4 Oct. - Dec.	average		0.2	0.2	7.20	783	27	0.663	0.012	2.35	1.35	2.050	49.52
		max.		1.0	0.7	7.50	1050	52	0.840	0.020	6.44	4.48	5.800	91.17
		min.		0.0	0.0	7.00	550	12	0.520	0.010	0.10	0.23	0.010	21.80
		number		6	6	6	6	6	6	6	6	6	5	6

STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-12, Bellekeno 600 Adit - before treatment														
2DD-S12	1 Jan.-Mar.	average		2.5	2.0	8.03	862	132	0.074	0.142	6.17	0.30	1.086	2.76
		max.		10.0	5.5	10.00	1870	999	0.860	1.830	43.40	2.62	14.800	23.40
		min.		0.0	0.5	7.38	290	<1	0.010	0.010	0.00	<0.01	0.010	0.01
		number		22	13	22	20	22	22	22	22	22	21	22
2DD-S12	2 Apr. - Jun.	average		3.7	1.9	7.77	723	69	0.022	0.026	2.05	0.31	0.262	1.54
		max.		10.0	8.0	8.21	1400	999	0.070	0.130	24.20	1.98	2.680	3.59
		min.		0.0	0.0	7.10	279	0	0.001	0.002	<0.01	<0.01	0.000	0.06
		number		27	22	27	27	27	26	25	27	27	25	27
2DD-S12	3 Jul.- Sept.	average		3.4	2.6	7.87	692	54	0.036	0.028	2.13	0.35	0.362	2.22
		max.		10.0	6.7	8.25	1300	444	0.140	0.130	20.20	1.84	3.860	8.06
		min.		0.0	1.5	7.31	84	0	0.001	0.002	0.00	0.00	0.010	0.01
		number		24	19	24	24	24	24	23	24	24	22	24
2DD-S12	4 Oct. - Dec.	average		1.7	2.2	7.79	748	19	0.066	0.023	1.14	0.45	0.172	2.15
		max.		5.0	3.7	8.40	1316	48	0.400	0.140	13.30	2.54	1.790	7.74
		min.		0.0	1.0	6.90	320	2	0.010	0.010	0.03	0.00	0.010	0.18
		number		23	17	23	22	23	23	23	23	23	22	23

United Keno Hill Mines Limited
Closure Plan - Draft

STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-13, Silver King Adit - before treatment														
2DD-S13	1 Jan.-Mar.	average		1.3	8.6	7.02	651	40	0.013	0.033	10.03	1.23	0.017	0.84
		max.		10.0	30.0	8.00	1110	287	0.040	0.200	46.40	3.19	0.070	2.21
		min.		0.0	3.0	6.54	420	8	0.000	0.010	0.00	0.00	0.000	0.01
		number		23	13	23	21	23	23	23	23	23	22	23
2DD-S13	2 Apr. - Jun.	average		2.5	7.1	6.87	674	31	0.023	0.097	15.93	2.29	0.035	1.41
		max.		8.0	20.0	8.07	1020	91	0.130	0.670	33.40	11.23	0.260	3.98
		min.		0.0	2.9	5.87	440	0	<0.001	<0.002	0.40	0.00	<0.005	0.09
		number		27	20	27	27	27	27	27	27	27	23	27
2DD-S13	3 Jul. - Sept.	average		4.6	5.6	6.92	625	46	0.050	0.195	14.33	2.48	0.055	1.54
		max.		34.0	9.0	8.64	1015	96	0.640	0.860	31.70	7.19	0.510	4.76
		min.		0.0	3.0	6.07	395	8	0.003	0.002	0.30	0.00	0.005	0.02
		number		24	19	24	24	23	24	24	24	24	23	24
2DD-S13	4 Oct. - Dec.	average		4.6	5.6	6.92	625	46	0.050	0.195	14.33	2.48	0.055	1.54
		max.		34.0	9.0	8.64	1015	96	0.640	0.860	31.70	7.19	0.510	4.76
		min.		0.0	3.0	6.07	395	8	0.003	0.002	0.30	0.00	0.005	0.02
		number		24	19	24	24	23	24	24	24	24	23	24

United Keno Hill Mines Limited
Closure Plan - Draft

STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-14, Lucky Queen Adit														
2DD-S14	1	Jan.-Mar.	number	0	0	0	0	0	0	0	0	0	0	0
	2	Apr. - Jun.	average	2.7	0.7	7.47	128	23	0.010	0.112	0.16	0.22	0.034	0.18
			max.	5.0	2.0	8.30	255	92	0.010	0.610	0.28	0.89	0.080	0.48
			min.	1.0	0.0	6.50	60	0	0.010	0.010	0.00	0.00	0.000	0.02
			number	10	10	10	10	8	6	6	9	7	8	9
2DD-S14	3	Jul.- Sept.	average	2.7	0.5	7.67	87	7	0.030	0.000	0.00	0.00	0.010	0.06
			max.	4.0	0.5	7.80	90	8	0.030	0.000	0.00	0.00	0.010	0.06
			min.	1.0	0.5	7.60	80	4	0.030	0.000	0.00	0.00	0.010	0.06
			number	3	2	3	3	3	1	0	2	2	1	1
2DD-S14	4	Oct. - Dec.	number	0	0	0	0	0	0	0	0	0	0	0

STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-15, Ruby Adit														
2DD-S15	1 Jan.-Mar.	average		1.9	1.1	7.56	340	8	0.030	0.012	0.28	3.98	0.036	1.00
		max.		11.0	1.5	7.90	450	32	0.100	0.030	1.24	7.45	0.160	2.26
		min.		0.0	0.3	6.90	260	0	0.010	0.000	0.01	0.10	0.000	0.01
		number		8	7	8	8	8	7	5	8	8	8	8
2DD-S15	2 Apr. - Jun.	average		2.1	1.5	7.45	311	11	0.068	0.013	1.74	4.56	0.057	2.09
		max.		5.0	2.5	8.10	460	32	0.160	0.030	3.68	10.74	0.200	5.23
		min.		1.0	0.0	6.61	230	2	0.000	0.010	0.00	0.05	0.010	0.01
		number		16	15	15	16	14	14	14	16	16	13	16
2DD-S15	3 Jul.- Sept.	average		3.0	1.8	7.72	391	15	0.074	0.015	2.07	6.51	0.081	2.06
		max.		6.0	3.3	8.00	890	44	0.410	0.040	8.20	12.37	0.470	4.78
		min.		1.0	0.2	7.40	260	0	0.020	0.010	0.14	1.13	0.010	0.03
		number		15	15	15	15	15	14	13	15	15	9	15
2DD-S15	4 Oct. - Dec.	average		0.5	1.5	7.72	306	11	0.035	0.019	2.22	4.46	0.087	1.74
		max.		2.0	2.0	8.10	524	20	0.140	0.050	7.54	8.10	0.470	3.22
		min.		0.0	0.7	7.40	160	0	0.000	0.000	0.00	0.00	0.010	0.07
		number		13	12	12	12	13	11	8	13	13	12	12

United Keno Hill Mines Limited
Closure Plan - Draft

STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-16, Elsa Mine														
2DD-S16	1 Jan.-Mar.	average		4.1	0.0	8.11	690	12	0.015	0.019	0.87	0.27	0.014	0.13
		max.		20.0	0.0	8.60	1080	88	0.040	0.040	1.65	0.67	0.030	0.71
		min.		1.5	0.0	7.20	200	0	0.000	0.000	0.02	0.01	0.000	0.01
		number		15	13	15	15	15	12	14	14	14	14	13
2DD-S16	2 Apr. - Jun.	average		3.9	0.0	7.79	709	17	0.033	0.053	1.57	1.34	0.058	0.27
		max.		8.0	0.0	8.40	1090	56	0.210	0.390	10.51	16.23	0.210	2.37
		min.		1.0	0.0	7.30	330	8	0.000	0.010	0.03	0.00	0.000	0.02
		number		17	16	17	17	15	12	16	17	17	16	16
2DD-S16	3 Jul.- Sept.	average		3.0	0.6	7.74	556	13	0.058	0.078	0.84	1.03	0.067	0.22
		max.		5.0	6.7	8.00	745	32	0.450	0.720	2.40	3.40	0.450	1.60
		min.		0.0	0.0	7.20	380	0	0.010	0.010	0.04	0.04	0.000	0.01
		number		13	12	15	15	15	12	15	15	15	12	13
2DD-S16	4 Oct. - Dec.	average		2.3	0.0	7.93	575	11	0.010	0.018	1.03	1.25	0.081	0.29
		max.		5.0	0.0	8.40	980	24	0.020	0.060	2.12	5.80	0.430	1.20
		min.		0.0	0.0	7.38	280	0	0.000	0.010	0.01	0.00	0.010	0.00
		number		14	12	14	14	14	13	13	14	14	12	13

STATISTIC	QUARTER	DATE	TEMP	FLOW	pH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-1, Tailings Pond Effluent													
2DD-S1	Jan. - Mar.	average	0.5	0.5	7.34	633	18	0.011	0.035	5.50	3.05	0.025	0.20
		max.	10.0	19.5	9.57	1780	192	0.310	0.520	42.92	20.00	0.590	2.23
		min.	0.0	-0.1	0.00	0	-1	-0.010	-0.010	-0.01	-0.01	-0.010	-0.01
		number	277	277	277	277	277	277	277	277	277	275	275
2DD-S1	Apr. - Jun.	average	4.7	55.1	7.79	436	18	0.014	0.046	1.58	1.06	0.052	0.39
		max.	17.8	9713.0	11.03	1800	397	0.620	0.710	29.80	18.30	1.200	3.49
		min.	0.0	-0.1	0.00	0	-1	-0.010	-0.010	-0.01	0.00	-0.010	-0.01
		number	566	567	566	566	566	566	566	566	566	564	564
2DD-S1	Jul. - Sept.	average	7.3	4.1	7.75	603	9	0.008	0.018	0.26	0.06	0.041	0.11
		max.	20.0	69.7	9.19	1398	32	0.400	0.300	1.11	1.03	1.740	0.98
		min.	0.0	-0.1	0.00	0	-1	-0.010	-0.010	-0.01	-0.01	-0.500	-0.01
		number	495	495	495	495	495	495	495	495	495	493	493
2DD-S1	Oct. - Dec.	average	0.9	2.6	7.11	576	15	0.006	0.047	2.17	0.73	0.017	0.31
		max.	14.0	49.0	9.12	1700	722	0.090	0.500	38.00	13.70	0.620	1.07
		min.	0.0	-0.1	0.00	0	-1	-0.010	-0.010	-0.01	-0.01	-0.500	-0.01
		number	498	498	498	498	498	498	498	498	498	497	497

United Keno Hill Mines Limited
Closure Plan - Draft

STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-2, U.N. Adit														
2DD-S02	1	Jan.-Mar.	number	0	0	0	0	0	0	0	0	0	0	0
2DD-S02	2	Apr. - Jun.	average	3.0	0.2	7.73	334	10	0.018	0.018	0.32	0.15	0.051	0.13
			max.	8.0	0.8	8.40	410	24	0.040	0.030	1.10	0.26	0.180	0.45
			min.	1.0	0.0	6.90	240	4	0.010	0.010	0.03	0.00	0.010	0.03
			number	8	8	8	8	7	6	6	8	8	7	7
2DD-S02	3	Jul. - Sept.	average	2.7	0.3	7.64	354	8	0.048	0.017	0.52	0.31	0.078	0.20
			max.	7.0	0.9	7.80	562	28	0.220	0.060	3.90	0.81	0.430	0.31
			min.	0.0	0.0	7.39	100	0	0.010	0.000	0.01	0.02	0.010	0.02
			number	14	14	14	14	14	11	10	14	14	9	9
2DD-S02	4	Oct. - Dec.	average	0.0	0.1	7.60	285	9	0.020	0.020	0.63	0.16	0.040	1.10
			max.	0.0	0.1	7.60	285	28	0.020	0.020	1.90	0.47	0.040	1.10
			min.	0.0	0.1	7.60	285	0	0.020	0.020	0.00	0.00	0.040	1.10
			number	3	1	1	1	3	1	1	3	3	1	1

United Keno Hill Mines Limited
Closure Plan - Draft

STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-8, Onek Adit														
2DD-S08	1 Jan.-Mar.	average		3.1	0.2	7.40	696	14	0.348	0.076	0.62	3.69	0.029	34.07
		max.		20.0	0.4	8.00	1800	40	1.240	0.340	2.03	9.33	0.090	78.00
		min.		0.0	0.1	6.90	200	0	0.010	0.010	0.01	0.01	0.000	0.01
		number		12	8	12	12	12	12	10	11	12	10	12
2DD-S08	2 Apr. - Jun.	average		4.0	0.3	7.15	789	16	2.682	0.033	0.76	8.57	0.057	71.08
		max.		9.0	0.6	7.80	1050	40	7.630	0.110	2.17	21.89	0.290	213.00
		min.		0.0	0.1	6.00	140	0	0.010	0.002	0.01	0.01	0.000	0.03
		number		18	17	18	18	16	18	18	18	18	16	18
2DD-S08	3 Jul.- Sept.	average		4.8	0.3	7.33	837	24	1.344	0.034	1.14	6.20	0.520	66.59
		max.		15.0	0.7	7.80	1280	60	3.450	0.180	2.97	11.08	5.200	191.00
		min.		1.0	0.0	6.80	540	0	0.130	0.000	0.02	0.98	0.005	10.00
		number		14	14	14	14	14	14	13	14	14	11	14
2DD-S08	4 Oct. - Dec.	average		0.2	0.2	7.20	783	27	0.663	0.012	2.35	1.35	2.050	49.52
		max.		1.0	0.7	7.50	1050	52	0.840	0.020	6.44	4.48	5.800	91.17
		min.		0.0	0.0	7.00	550	12	0.520	0.010	0.10	0.23	0.010	21.80
		number		6	6	6	6	6	6	6	6	6	5	6

STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-12, Bellekeno 600 Adit - before treatment														
2DD-S12	1 Jan.-Mar.	average		2.5	2.0	8.03	862	132	0.074	0.142	6.17	0.30	1.086	2.76
		max.		10.0	5.5	10.00	1870	999	0.860	1.830	43.40	2.62	14.800	23.40
		min.		0.0	0.5	7.38	290	<1	0.010	0.010	0.00	<0.01	0.010	0.01
		number		22	13	22	20	22	22	22	22	22	21	22
2DD-S12	2 Apr. - Jun.	average		3.7	1.9	7.77	723	69	0.022	0.026	2.05	0.31	0.262	1.54
		max.		10.0	8.0	8.21	1400	999	0.070	0.130	24.20	1.98	2.680	3.59
		min.		0.0	0.0	7.10	279	0	0.001	0.002	<0.01	<0.01	0.000	0.06
		number		27	22	27	27	27	26	25	27	27	25	27
2DD-S12	3 Jul.- Sept.	average		3.4	2.6	7.87	692	54	0.036	0.028	2.13	0.35	0.362	2.22
		max.		10.0	6.7	8.25	1300	444	0.140	0.130	20.20	1.84	3.860	8.06
		min.		0.0	1.5	7.31	84	0	0.001	0.002	0.00	0.00	0.010	0.01
		number		24	19	24	24	24	24	23	24	24	22	24
2DD-S12	4 Oct. - Dec.	average		1.7	2.2	7.79	748	19	0.066	0.023	1.14	0.45	0.172	2.15
		max.		5.0	3.7	8.40	1316	48	0.400	0.140	13.30	2.54	1.790	7.74
		min.		0.0	1.0	6.90	320	2	0.010	0.010	0.03	0.00	0.010	0.18
		number		23	17	23	22	23	23	23	23	23	22	23

United Keno Hill Mines Limited
Closure Plan - Draft

STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-13, Silver King Adit - before treatment														
2DD-S13	1 Jan.-Mar.	average		1.3	8.6	7.02	651	40	0.013	0.033	10.03	1.23	0.017	0.84
		max.		10.0	30.0	8.00	1110	287	0.040	0.200	46.40	3.19	0.070	2.21
		min.		0.0	3.0	6.54	420	8	0.000	0.010	0.00	0.00	0.000	0.01
		number		23	13	23	21	23	23	23	23	23	22	23
2DD-S13	2 Apr. - Jun.	average		2.5	7.1	6.87	674	31	0.023	0.097	15.93	2.29	0.035	1.41
		max.		8.0	20.0	8.07	1020	91	0.130	0.670	33.40	11.23	0.260	3.98
		min.		0.0	2.9	5.87	440	0	<0.001	<0.002	0.40	0.00	<0.005	0.09
		number		27	20	27	27	27	27	27	27	27	23	27
2DD-S13	3 Jul. - Sept.	average		4.6	5.6	6.92	625	46	0.050	0.195	14.33	2.48	0.055	1.54
		max.		34.0	9.0	8.64	1015	96	0.640	0.860	31.70	7.19	0.510	4.76
		min.		0.0	3.0	6.07	395	8	0.003	0.002	0.30	0.00	0.005	0.02
		number		24	19	24	24	23	24	24	24	24	23	24
2DD-S13	4 Oct. - Dec.	average		4.6	5.6	6.92	625	46	0.050	0.195	14.33	2.48	0.055	1.54
		max.		34.0	9.0	8.64	1015	96	0.640	0.860	31.70	7.19	0.510	4.76
		min.		0.0	3.0	6.07	395	8	0.003	0.002	0.30	0.00	0.005	0.02
		number		24	19	24	24	23	24	24	24	24	23	24

United Keno Hill Mines Limited
Closure Plan - Draft

STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-14, Lucky Queen Adit														
2DD-S14	1	Jan.-Mar.	number	0	0	0	0	0	0	0	0	0	0	0
	2	Apr. - Jun.	average	2.7	0.7	7.47	128	23	0.010	0.112	0.16	0.22	0.034	0.18
			max.	5.0	2.0	8.30	255	92	0.010	0.610	0.28	0.89	0.080	0.48
			min.	1.0	0.0	6.50	60	0	0.010	0.010	0.00	0.00	0.000	0.02
			number	10	10	10	10	8	6	6	9	7	8	9
2DD-S14	3	Jul.- Sept.	average	2.7	0.5	7.67	87	7	0.030	0.000	0.00	0.00	0.010	0.06
			max.	4.0	0.5	7.80	90	8	0.030	0.000	0.00	0.00	0.010	0.06
			min.	1.0	0.5	7.60	80	4	0.030	0.000	0.00	0.00	0.010	0.06
			number	3	2	3	3	3	1	0	2	2	1	1
2DD-S14	4	Oct. - Dec.	number	0	0	0	0	0	0	0	0	0	0	0

STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-15, Ruby Adit														
2DD-S15	1 Jan.-Mar.	average		1.9	1.1	7.56	340	8	0.030	0.012	0.28	3.98	0.036	1.00
		max.		11.0	1.5	7.90	450	32	0.100	0.030	1.24	7.45	0.160	2.26
		min.		0.0	0.3	6.90	260	0	0.010	0.000	0.01	0.10	0.000	0.01
		number		8	7	8	8	8	7	5	8	8	8	8
2DD-S15	2 Apr. - Jun.	average		2.1	1.5	7.45	311	11	0.068	0.013	1.74	4.56	0.057	2.09
		max.		5.0	2.5	8.10	460	32	0.160	0.030	3.68	10.74	0.200	5.23
		min.		1.0	0.0	6.61	230	2	0.000	0.010	0.00	0.05	0.010	0.01
		number		16	15	15	16	14	14	14	16	16	13	16
2DD-S15	3 Jul.- Sept.	average		3.0	1.8	7.72	391	15	0.074	0.015	2.07	6.51	0.081	2.06
		max.		6.0	3.3	8.00	890	44	0.410	0.040	8.20	12.37	0.470	4.78
		min.		1.0	0.2	7.40	260	0	0.020	0.010	0.14	1.13	0.010	0.03
		number		15	15	15	15	15	14	13	15	15	9	15
2DD-S15	4 Oct. - Dec.	average		0.5	1.5	7.72	306	11	0.035	0.019	2.22	4.46	0.087	1.74
		max.		2.0	2.0	8.10	524	20	0.140	0.050	7.54	8.10	0.470	3.22
		min.		0.0	0.7	7.40	160	0	0.000	0.000	0.00	0.00	0.010	0.07
		number		13	12	12	12	13	11	8	13	13	12	12

United Keno Hill Mines Limited
Closure Plan - Draft

STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-16, Elsa Mine														
2DD-S16	1 Jan.-Mar.	average		4.1	0.0	8.11	690	12	0.015	0.019	0.87	0.27	0.014	0.13
		max.		20.0	0.0	8.60	1080	88	0.040	0.040	1.65	0.67	0.030	0.71
		min.		1.5	0.0	7.20	200	0	0.000	0.000	0.02	0.01	0.000	0.01
		number		15	13	15	15	15	12	14	14	14	14	13
2DD-S16	2 Apr. - Jun.	average		3.9	0.0	7.79	709	17	0.033	0.053	1.57	1.34	0.058	0.27
		max.		8.0	0.0	8.40	1090	56	0.210	0.390	10.51	16.23	0.210	2.37
		min.		1.0	0.0	7.30	330	8	0.000	0.010	0.03	0.00	0.000	0.02
		number		17	16	17	17	15	12	16	17	17	16	16
2DD-S16	3 Jul.- Sept.	average		3.0	0.6	7.74	556	13	0.058	0.078	0.84	1.03	0.067	0.22
		max.		5.0	6.7	8.00	745	32	0.450	0.720	2.40	3.40	0.450	1.60
		min.		0.0	0.0	7.20	380	0	0.010	0.010	0.04	0.04	0.000	0.01
		number		13	12	15	15	15	12	15	15	15	12	13
2DD-S16	4 Oct. - Dec.	average		2.3	0.0	7.93	575	11	0.010	0.018	1.03	1.25	0.081	0.29
		max.		5.0	0.0	8.40	980	24	0.020	0.060	2.12	5.80	0.430	1.20
		min.		0.0	0.0	7.38	280	0	0.000	0.010	0.01	0.00	0.010	0.00
		number		14	12	14	14	14	13	13	14	14	12	13

United Keno Hill Mines Limited
Closure Plan - Draft

STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-17, Husky SW														
2DD-S17	1 Jan.-Mar.	average		1.1	3.3	6.56	850	34	0.012	0.013	36.65	19.77	0.030	0.93
		max.		2.0	6.0	7.10	1100	160	0.040	0.040	90.00	31.79	0.070	2.64
		min.		0.0	2.0	5.26	710	0	0.000	0.000	10.85	10.00	0.010	0.13
		number		12	12	12	12	12	10	12	12	12	12	12
2DD-S17	2 Apr. - Jun.	average		2.2	2.8	6.71	906	28	0.019	0.025	37.10	22.20	0.056	0.83
		max.		4.0	6.0	7.53	1150	80	0.040	0.070	62.00	56.01	0.190	1.90
		min.		1.0	1.3	6.10	700	8	0.000	0.000	18.10	0.12	0.000	0.14
		number		14	14	14	14	12	14	14	14	14	14	14
2DD-S17	3 Jul.- Sept.	average		2.6	4.6	6.68	878	25	0.040	0.014	39.83	27.52	0.028	0.64
		max.		5.0	25.3	7.50	1480	64	0.330	0.030	110.00	44.70	0.100	1.43
		min.		1.0	2.0	6.10	540	8	0.000	0.000	12.58	10.30	0.000	0.01
		number		12	12	12	12	12	11	11	12	12	12	12
2DD-S17	4 Oct. - Dec.	average		1.0	3.5	6.76	905	25	0.013	0.013	19.59	20.55	0.063	0.86
		max.		1.6	6.0	7.20	1502	48	0.020	0.030	33.00	31.11	0.290	1.67
		min.		0.0	2.0	6.30	660	4	0.000	0.000	10.53	13.11	0.010	0.03
		number		11	11	11	11	11	10	10	11	11	11	11

United Keno Hill Mines Limited
Closure Plan - Draft

STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-12, Bellekeno 600 Adit - before treatment														
2DD-S12	1 Jan.-Mar.	average		2.5	2.0	8.03	862	132	0.074	0.142	6.17	0.30	1.086	2.76
		max.		10.0	5.5	10.00	1870	999	0.860	1.830	43.40	2.62	14.800	23.40
		min.		0.0	0.5	7.38	290	<1	0.010	0.010	0.00	<0.01	0.010	0.01
		number		22	13	22	20	22	22	22	22	22	21	22
2DD-S12	2 Apr. - Jun.	average		3.7	1.9	7.77	723	69	0.022	0.026	2.05	0.31	0.262	1.54
		max.		10.0	8.0	8.21	1400	999	0.070	0.130	24.20	1.98	2.680	3.59
		min.		0.0	0.0	7.10	279	0	0.001	0.002	<0.01	<0.01	0.000	0.06
		number		27	22	27	27	27	26	25	27	27	25	27
2DD-S12	3 Jul.- Sept.	average		3.4	2.6	7.87	692	54	0.036	0.028	2.13	0.35	0.362	2.22
		max.		10.0	6.7	8.25	1300	444	0.140	0.130	20.20	1.84	3.860	8.06
		min.		0.0	1.5	7.31	84	0	0.001	0.002	0.00	0.00	0.010	0.01
		number		24	19	24	24	24	24	23	24	24	22	24
2DD-S12	4 Oct. - Dec.	average		1.7	2.2	7.79	748	19	0.066	0.023	1.14	0.45	0.172	2.15
		max.		5.0	3.7	8.40	1316	48	0.400	0.140	13.30	2.54	1.790	7.74
		min.		0.0	1.0	6.90	320	2	0.010	0.010	0.03	0.00	0.010	0.18
		number		23	17	23	22	23	23	23	23	23	22	23

United Keno Hill Mines Limited
Closure Plan - Draft

STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-13, Silver King Adit - before treatment														
2DD-S13	1	Jan.-Mar.	average	1.3	8.6	7.02	651	40	0.013	0.033	10.03	1.23	0.017	0.84
			max.	10.0	30.0	8.00	1110	287	0.040	0.200	46.40	3.19	0.070	2.21
			min.	0.0	3.0	6.54	420	8	0.000	0.010	0.00	0.00	0.000	0.01
			number	23	13	23	21	23	23	23	23	23	22	23
2DD-S13	2	Apr. - Jun.	average	2.5	7.1	6.87	674	31	0.023	0.097	15.93	2.29	0.035	1.41
			max.	8.0	20.0	8.07	1020	91	0.130	0.670	33.40	11.23	0.260	3.98
			min.	0.0	2.9	5.87	440	0	<0.001	<0.002	0.40	0.00	<0.005	0.09
			number	27	20	27	27	27	27	27	27	27	23	27
2DD-S13	3	Jul.- Sept.	average	4.6	5.6	6.92	625	46	0.050	0.195	14.33	2.48	0.055	1.54
			max.	34.0	9.0	8.64	1015	96	0.640	0.860	31.70	7.19	0.510	4.76
			min.	0.0	3.0	6.07	395	8	0.003	0.002	0.30	0.00	0.005	0.02
			number	24	19	24	24	23	24	24	24	24	23	24
2DD-S13	4	Oct. - Dec.	average	4.6	5.6	6.92	625	46	0.050	0.195	14.33	2.48	0.055	1.54
			max.	34.0	9.0	8.64	1015	96	0.640	0.860	31.70	7.19	0.510	4.76
			min.	0.0	3.0	6.07	395	8	0.003	0.002	0.30	0.00	0.005	0.02
			number	24	19	24	24	23	24	24	24	24	23	24

United Keno Hill Mines Limited
Closure Plan - Draft

STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-14, Lucky Queen Adit														
2DD-S14	1	Jan.-Mar.	number	0	0	0	0	0	0	0	0	0	0	0
	2	Apr. - Jun.	average	2.7	0.7	7.47	128	23	0.010	0.112	0.16	0.22	0.034	0.18
			max.	5.0	2.0	8.30	255	92	0.010	0.610	0.28	0.89	0.080	0.48
			min.	1.0	0.0	6.50	60	0	0.010	0.010	0.00	0.00	0.000	0.02
			number	10	10	10	10	8	6	6	9	7	8	9
2DD-S14	3	Jul.- Sept.	average	2.7	0.5	7.67	87	7	0.030	0.000	0.00	0.00	0.010	0.06
			max.	4.0	0.5	7.80	90	8	0.030	0.000	0.00	0.00	0.010	0.06
			min.	1.0	0.5	7.60	80	4	0.030	0.000	0.00	0.00	0.010	0.06
			number	3	2	3	3	3	1	0	2	2	1	1
2DD-S14	4	Oct. - Dec.	number	0	0	0	0	0	0	0	0	0	0	0

United Keno Hill Mines Limited
Closure Plan - Draft

STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-15, Ruby Adit														
2DD-S15	1	Jan.-Mar.	average	1.9	1.1	7.56	340	8	0.030	0.012	0.28	3.98	0.036	1.00
			max.	11.0	1.5	7.90	450	32	0.100	0.030	1.24	7.45	0.160	2.26
			min.	0.0	0.3	6.90	260	0	0.010	0.000	0.01	0.10	0.000	0.01
			number	8	7	8	8	8	7	5	8	8	8	8
2DD-S15	2	Apr. - Jun.	average	2.1	1.5	7.45	311	11	0.068	0.013	1.74	4.56	0.057	2.09
			max.	5.0	2.5	8.10	460	32	0.160	0.030	3.68	10.74	0.200	5.23
			min.	1.0	0.0	6.61	230	2	0.000	0.010	0.00	0.05	0.010	0.01
			number	16	15	15	16	14	14	14	16	16	13	16
2DD-S15	3	Jul.- Sept.	average	3.0	1.8	7.72	391	15	0.074	0.015	2.07	6.51	0.081	2.06
			max.	6.0	3.3	8.00	890	44	0.410	0.040	8.20	12.37	0.470	4.78
			min.	1.0	0.2	7.40	260	0	0.020	0.010	0.14	1.13	0.010	0.03
			number	15	15	15	15	15	14	13	15	15	9	15
2DD-S15	4	Oct. - Dec.	average	0.5	1.5	7.72	306	11	0.035	0.019	2.22	4.46	0.087	1.74
			max.	2.0	2.0	8.10	524	20	0.140	0.050	7.54	8.10	0.470	3.22
			min.	0.0	0.7	7.40	160	0	0.000	0.000	0.00	0.00	0.010	0.07
			number	13	12	12	12	13	11	8	13	13	12	12

United Keno Hill Mines Limited
Closure Plan - Draft

STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-16, Elsa Mine														
2DD-S16	1	Jan.-Mar.	average	4.1	0.0	8.11	690	12	0.015	0.019	0.87	0.27	0.014	0.13
			max.	20.0	0.0	8.60	1080	88	0.040	0.040	1.65	0.67	0.030	0.71
			min.	1.5	0.0	7.20	200	0	0.000	0.000	0.02	0.01	0.000	0.01
			number	15	13	15	15	15	12	14	14	14	14	13
2DD-S16	2	Apr. - Jun.	average	3.9	0.0	7.79	709	17	0.033	0.053	1.57	1.34	0.058	0.27
			max.	8.0	0.0	8.40	1090	56	0.210	0.390	10.51	16.23	0.210	2.37
			min.	1.0	0.0	7.30	330	8	0.000	0.010	0.03	0.00	0.000	0.02
			number	17	16	17	17	15	12	16	17	17	16	16
2DD-S16	3	Jul.- Sept.	average	3.0	0.6	7.74	556	13	0.058	0.078	0.84	1.03	0.067	0.22
			max.	5.0	6.7	8.00	745	32	0.450	0.720	2.40	3.40	0.450	1.60
			min.	0.0	0.0	7.20	380	0	0.010	0.010	0.04	0.04	0.000	0.01
			number	13	12	15	15	15	12	15	15	15	12	13
2DD-S16	4	Oct. - Dec.	average	2.3	0.0	7.93	575	11	0.010	0.018	1.03	1.25	0.081	0.29
			max.	5.0	0.0	8.40	980	24	0.020	0.060	2.12	5.80	0.430	1.20
			min.	0.0	0.0	7.38	280	0	0.000	0.010	0.01	0.00	0.010	0.00
			number	14	12	14	14	14	13	13	14	14	12	13

United Keno Hill Mines Limited
Closure Plan - Draft

STATION	QUARTER	DATE	STATISTIC	TEMP	FLOW	PH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
Summary Statistics for Station S-17, Husky SW														
2DD-S17	1 Jan.-Mar.	average		1.1	3.3	6.56	850	34	0.012	0.013	36.65	19.77	0.030	0.93
		max.		2.0	6.0	7.10	1100	160	0.040	0.040	90.00	31.79	0.070	2.64
		min.		0.0	2.0	5.26	710	0	0.000	0.000	10.85	10.00	0.010	0.13
		number		12	12	12	12	12	10	12	12	12	12	12
2DD-S17	2 Apr. - Jun.	average		2.2	2.8	6.71	906	28	0.019	0.025	37.10	22.20	0.056	0.83
		max.		4.0	6.0	7.53	1150	80	0.040	0.070	62.00	56.01	0.190	1.90
		min.		1.0	1.3	6.10	700	8	0.000	0.000	18.10	0.12	0.000	0.14
		number		14	14	14	14	12	14	14	14	14	14	14
2DD-S17	3 Jul. - Sept.	average		2.6	4.6	6.68	878	25	0.040	0.014	39.83	27.52	0.028	0.64
		max.		5.0	25.3	7.50	1480	64	0.330	0.030	110.00	44.70	0.100	1.43
		min.		1.0	2.0	6.10	540	8	0.000	0.000	12.58	10.30	0.000	0.01
		number		12	12	12	12	12	11	11	12	12	12	12
2DD-S17	4 Oct. - Dec.	average		1.0	3.5	6.76	905	25	0.013	0.013	19.59	20.55	0.063	0.86
		max.		1.6	6.0	7.20	1502	48	0.020	0.030	33.00	31.11	0.290	1.67
		min.		0.0	2.0	6.30	660	4	0.000	0.000	10.53	13.11	0.010	0.03
		number		11	11	11	11	11	10	10	11	11	11	11

United Keno Hill Mines Limited - Water Samples by LES									
Site #	Date	Flow m ³ /s	Total Alk.	In-situ Conduct.	lab Conduct.	uS/cm	In-situ pH	lab pH	Sulphate TDS
SITE:		GALENA CREEK UPSTREAM SILVER KING ADIT							
11	940727		190			450		8.2	64.7 283
11	940727	0.0033	188	417		450	8.09	8.2	69.7 290
11	950713		151					8.4	53.5 259
11	950907		115	261		260	7.89	8.1	29.9 193.00
SITE:		GALENA CREEK UPSTREAM ELSA ROAD							
11A	941027	0.0089	204	430			8.17	8.2	314
11A	950713		161	353			8.46	8.4	52.1 265
11A	950907	0.045	131	264		270	8.02	8.2	29.9 219.00
SITE:		GALENA CREEK 700 METRES DOWNSTREAM SILVER KING PONDS							
11B	950713		142	651			8.30	8.3	266 551
11B	950907		113	344		350	7.55	8.0	77.9 278.00
SITE:		GALENA CREEK AT MOUTH (JUST UPSTREAM OF FLAT CREEK)							
57	940915		220			680		8.1	165 467
57	941027	0.016	232	662			7.63	8.0	518
57	950713		159					8.1	275 575
57	950907		152			560		8.0	151.0 418.00
SITE:		SILVER KING DECANT, POND #2							
12 A	950712		90	1029			8.49	8.0	559 932
12A	950905		118			1000		8.1	1100.0 889.00

United Keno Hill Mines Limited - Water Samples by LES

		Dissolved Metal Values in mg/L															
Site #	Date	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mn	Ni	Ag	Na	Zn
SITE:		GALENA CREEK UPSTREAM SILVER KING ADIT															
11	940727	0.02 <	0.02	< 0.02	0.106 <	0.0005	71.3 <	0.001	< 0.002	0.004 <	0.001	19.1	0.006 <	0.001	0.0001	1.13	0.015
11	940727	0.02 <	0.02	< 0.02	0.105 <	0.0005	71.6 <	0.001	< 0.002	0.004 <	0.001	19.3	0.006	0.002	0.0001	1.14	0.016
11	950713	0.01 <	0.02	< 0.02	0.0857 <	0.0005	54.7 <	0.001	0.013	0.009 <	0.01	14.3	0.005	0.002 <	0.001	1.11	0.016
11	950907	0.03 <	0.02	< 0.02	0.0722 <	0.0005	48.8 <	0.001	0.004	0.043 <	0.005	13	0.0026	0.002 <	0.001	1.14	0.004
SITE:		GALENA CREEK UPSTREAM ELSA ROAD															
11A	941027																
11A	950713	0.02 <	0.02	< 0.02	0.0878 <	0.0005	56.7 <	0.001	0.013	0.012 <	0.01	14.5	0.002 <	0.001	< 0.001	1.12	0.016
11A	950907	0.03 <	0.02	< 0.02	0.0715 <	0.0005	47.9 <	0.001	0.003	0.046 <	0.005	12.8	0.0038 <	0.002	< 0.001	1.12	0.004
SITE:		GALENA CREEK 700 METRES DOWNSTREAM SILVER KING PONDS															
11B	950713	0.03 <	0.02	< 0.02	0.0631	0.0008	110 <	0.001	0.016	0.009 <	0.01	30.7	0.053	0.006 <	0.001	1.92	0.071
11B	950907	0.06 <	0.02	< 0.02	0.0623	0.0012	60.3	0.002	0.006	0.222 <	0.005	16.5	0.227	0.01 <	0.001	1.3	0.06
SITE:		GALENA CREEK AT MOUTH (JUST UPSTREAM OF FLAT CREEK)															
57	940915	< 0.01 <	0.02	< 0.02	0.048 <	0.0005	101 <	0.001	0.004	0.014 <	0.01	28.5	0.137 <	0.001	< 0.001	2.54	0.008
57	941027																
57	950713	0.01 <	0.02	< 0.02	0.0622 <	0.0005	109 <	0.001	0.014	0.028 <	0.01	31.3	0.074 <	0.001	< 0.001	2.6	0.018
57	950907	0.03 <	0.02	< 0.02	0.0443 <	0.0005	81 <	0.001	< 0.002	0.026 <	0.005	24.2	0.023 <	0.002	< 0.001	1.92	0.015
SITE:		SILVER KING DECANT, POND #2															
12 A	950712	0.02 <	0.02	< 0.02	0.0077 <	0.0005	181	0.01	0.013	0.038 <	0.01	42.5	1.25	0.047 <	0.001	3.14	0.021
12A	950905	0.05 <	0.02	< 0.02	0.0094	0.0064	162	0.02	0.005	0.005 <	0.005	36.5	2.44	0.078 <	0.001	3.04	0.125

United Keno Hill Mines Limited - Water Samples by LES															
Site # Date		Total Metal Values in mg/L													
		Al	Sb	As	Sd	Ca	Co	Cu	Fe	Pb	Mg	Mn	Ni	Ag	Zn
SITE:		GALENA CREEK UPSTREAM SILVER KING ADIT													
11	940727	0.04	< 0.02	< 0.02	< 0.0005	73.9	< 0.001	0.004	0.096	< 0.001	19.7	0.007	< 0.001	0.0001	0.017
11	940727	0.05	< 0.02	< 0.02	< 0.0005	72.6	< 0.001	0.005	0.1	< 0.001	19.5	0.008	0.002	0.0001	0.016
11	950713	0.02	< 0.02	< 0.02	< 0.0005	56.3	< 0.001	0.014	0.037	< 0.01	14.9	0.004	0.002	< 0.001	0.018
11	950907														
SITE:		GALENA CREEK UPSTREAM ELSA ROAD													
11A	941027	0.04	< 0.02	< 0.02	< 0.0005	68.9	< 0.001	0.006	0.112	< 0.01	19.9	0.009	0.002	< 0.001	0.007
11A	950713	0.02	< 0.02	< 0.02	< 0.0005	57.2	< 0.001	0.014	0.03	< 0.01	15.3	0.003	< 0.001	< 0.001	0.016
11A	950907														
SITE:		GALENA CREEK 700 METRES DOWNSTREAM SILVER KING PONDS													
11B	950713	0.06	< 0.02	< 0.02	0.0009	110	0.001	0.018	0.281	< 0.01	30.8	0.073	0.008	< 0.001	0.091
11B	950907														
SITE:		GALENA CREEK AT MOUTH (JUST UPSTREAM OF FLAT CREEK)													
57	940915	< 0.01	< 0.02	< 0.02	< 0.0005	103	< 0.001	0.004	0.219	< 0.01	29.1	0.147	0.001	< 0.001	0.009
57	941027	< 0.01	< 0.02	< 0.02	< 0.0005	108	< 0.001	0.008	0.046	< 0.01	30.3	0.029	0.002	< 0.001	0.016
57	950713	0.69	< 0.02	< 0.02	< 0.0005	122	< 0.001	0.019	1.57	< 0.01	34.8	0.1	0.003	< 0.001	0.034
57	950907														
SITE:		SILVER KING DECANT, POND #2													
12 A	950712	0.03	< 0.02	< 0.02	0.0016	186	0.012	0.014	0.601	< 0.01	43.8	1.3	0.052	< 0.001	0.115
12A	950905														

United Keno Hill Mines Limited - Water Samples by LES									
Site #	Date	Flow m ³ /s	Total Alk.	In-situ Conduct.	lab Conduct.	uS/cm	In-situ pH	lab pH	Sulphate TDS
SITE:		NO CASH CREEK @ KENO HIGHWAY							
21	940727	0.0034	137	992		1050	8.20	8.1	492 891
21	941028		181	1021			8.12	8.0	925
21	950711	0.0102	139	941			8.04	8.1	469 960
21	950905	0.015	110	689		720	7.42	7.8	348.0 617.00
SITE:		NO CASH CREEK UPSTREAM ADIT, ABOVE OLD WOOD CULVERT							
21A	950905	0.003	42	253		250	7.41	7.5	87.1 193.00
SITE:		NO CASH CREEK 1.4 KM NW OF KENO HIGHWAY							
22	941028	0.006	179	1160			7.65	8.0	930
SITE:		NO CASH CREEK JUST UPSTREAM OF CONFLUENCE WITH OLD DITCH							
22A	950905	0.015	103	690		700		7.5	307.0 556.00
SITE:		GALKENO 900 ADIT, POND #1							
31A	950711		100	1420			8.50	7.7	1380 2080
31A	950427	0.00108	159	2030			8.87	7.4	2080
31A	950905		124	2010		2000	8.56	7.9	1390.0 2070.00
SITE:		GALKENO 900 DECANT FROM POND #2							
31B	950711	0.0034	88	1881			9.03	7.8	1400 2350
31B	950905	0.0064	134	2020		2000	8.10	7.9	1260.0 2120.00

United Keno Hill Mines Limited - Water Samples by LES

		Dissolved Metal Values in mg/L															
Site #	Date	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mn	Ni	Ag	Na	Zn
SITE:		NO CASH CREEK @ KENO HIGHWAY															
21	940727	0.04	< 0.02	< 0.02	0.011	0.0541	214	0.004	< 0.002	0.019	< 0.01	26.4	6.14	0.038	< 0.001	1.7	5.49
21	941028																
21	950711	0.02	< 0.02	< 0.02	0.0136	0.0582	186	0.003	0.014	0.011	< 0.01	25.8	4.7	0.033	< 0.001	1.86	5.91
21	950905	0.03	< 0.02	< 0.02	0.0159	0.0532	113	0.004	0.006	0.022	< 0.005	20	4.42	0.03	< 0.001	1.82	5.38
SITE:		NO CASH CREEK UPSTREAM ADIT, ABOVE OLD WOOD CULVERT															
21A	950905	0.03	< 0.02	< 0.02	0.0323	< 0.0005	35.3	< 0.001	0.004	0.006	< 0.005	10.3	0.0058	< 0.002	< 0.001	1.95	0.031
SITE:		NO CASH CREEK 1.4 KM NW OF KENO HIGHWAY															
22	941028																
SITE:		NO CASH CREEK JUST UPSTREAM OF CONFLUENCE WITH OLD DITCH															
22A	950905	0.03	< 0.02	< 0.02	0.0455	0.0014	114	< 0.001	0.003	0.051	< 0.005	23	0.113	< 0.002	< 0.001	2.13	0.547
SITE:		GALKENO 900 ADIT, POND #1															
31A	950711	0.06	< 0.02	< 0.02	0.0125	0.0008	498	0.027	< 0.002	0.014	< 0.01	34.6	38.5	0.165	< 0.001	2.3	0.181
31A	950427	0.05	< 0.02	< 0.02	0.0118	0.0039	522	0.034	< 0.002	0.013	0.01	36.4	47.9	0.205	< 0.001	1.93	0.842
31A	950905	0.02	< 0.02	< 0.02	0.0095	< 0.0005	433	0.022	< 0.002	0.005	< 0.005	30.8	23.9	0.159	< 0.001	2.41	0.142
SITE:		GALKENO 900 DECANT FROM POND #2															
31B	950711	0.05	< 0.02	< 0.02	0.01	< 0.0005	460	0.018	0.006	0.013	< 0.01	33.7	21.8	0.128	< 0.001	2.3	0.032
31B	950905	0.03	< 0.02	< 0.02	0.0125	0.001	426	0.033	0.003	< 0.6	< 0.005	31.3	36.7	0.195	< 0.001	2.36	0.776

United Keno Hill Mines Limited - Water Samples by LES															
Site # Date		Total Metal Values in mg/L													
		Al	Sb	As	Sd	Ca	Co	Cu	Fe	Pb	Mg	Mn	Ni	Ag	Zn
SITE:		NO CASH CREEK @ KENO HIGHWAY													
21	940727	0.1	< 0.02	< 0.02	0.0597	214	0.005	< 0.002	1.57	0.02	26.5	6.16	0.041	< 0.001	6.33
21	941028	0.09	< 0.02	< 0.02	0.0419	218	0.006	0.013	1.82	0.01	25.4	6.37	0.05	< 0.001	5.67
21	950711	0.09	< 0.02	< 0.02	0.0665	189	0.003	0.027	1.67	0.03	26.6	4.8	0.035	< 0.001	7.03
21	950905														
SITE:		NO CASH CREEK UPSTREAM ADIT, ABOVE OLD WOOD CULVERT													
21A	950905														
SITE:		NO CASH CREEK 1.4 KM NW OF KENO HIGHWAY													
22	941028	0.02	< 0.02	< 0.02	0.005	220	< 0.001	0.006	0.283	< 0.01	36.9	0.278	0.006	< 0.001	0.865
SITE:		NO CASH CREEK JUST UPSTREAM OF CONFLUENCE WITH OLD DITCH													
22A	950905														
SITE:		GALKENO 900 ADIT, POND #1													
31A	950711	0.06	< 0.02	< 0.02	0.0014	511	0.028	< 0.002	0.058	< 0.01	35.9	41.7	0.181	< 0.001	0.771
31A	950427	0.07	< 0.02	< 0.02	0.0037	553	0.034	< 0.002	0.168	0.01	36.9	48.7	0.208	< 0.001	1.77
31A	950905														
SITE:		GALKENO 900 DECANT FROM POND #2													
31B	950711	0.05	< 0.02	< 0.02	< 0.0005	476	0.018	0.01	0.019	< 0.01	35.1	23.5	0.13	< 0.001	0.05
31B	950905														

United Keno Hill Mines Limited - Water Samples by LES									
Site #	Date	Flow m ³ /s	Total Alk.	In-situ Conduct.	lab Conduct.	uS/cm	In-situ pH	lab pH	Sulphate TDS
SITE:		GALKENO 900, SEEP BELOW POND #1							
31C	950711	0.001	100	1952			7.24	7.7	1400 2110
31C	950711		94					7.7	1330 2250
31C	950905	0.004	119	1680		2000	6.85	7.4	1410.0 2370.00
SITE:		GALKENO 900, SEEP BELOW POND #2							
31D	950711		281	2410			7.21	8.0	1700 2840
SITE:		GALKENO 900, SEEP NEAR SWAMP EFFLUENT							
31F	950711		223	2040			6.71	7.4	1300 2360
31F	950905	0.001	232	1982		2000	6.62	7.1	1230.0 2290.00
SITE:		GALKENO 900, FLOW ALONG OLD PATH 5 m UPSTREAM CRISTAL LAKE							
31G	950711	0.0012	179	1990			7.35	7.9	1280 2400
31G	950905	0.003	164	1817		1750	7.12	7.3	1210.0 1780.00
SITE:		GALKENO 900, SEEP BELOW WETLAND ACCESS ROAD							
31H	950711	0.0006	174	2020			6.77	7.5	1430 2210
31H	950905	0.001	218	2100		2150	7.16	7.1	1370.0 2520.00
31H	950905	0.001	230	2100		2150	7.16	7.2	1400.0 2520.00
SITE:		GALKENO 300 ADIT							
32	940727	0.0001	54	1780		1850	6.80	7.3	1300 1990
32	950712		48	1760			6.81	7.2	1290 2050
32	950905		84			1760		7.2	1180.0 2130.00

United Keno Hill Mines Limited - Water Samples by LES

		Dissolved Metal Values in mg/L															
Site #	Date	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mn	Ni	Ag	Na	Zn
SITE:		GALKENO 900, SEEP BELOW POND #1															
31C	950711	0.04	< 0.02	< 0.02	0.0265	0.0038	476	< 0.001	0.022	0.284	< 0.01	38.6	0.672	0.034	< 0.001	2.39	1.12
31C	950711	0.03	< 0.02	< 0.02	0.0265	0.0038	478	< 0.001	0.026	0.281	< 0.01	38.9	0.668	0.033	< 0.001	2.37	1.12
31C	950905	< 0.01	< 0.02	< 0.02	0.0177	0.0054	445	0.002	0.003	0.005	< 0.005	37.3	0.999	0.03	< 0.001	2.33	1.44
SITE:		GALKENO 900, SEEP BELOW POND #2															
31D	950711	0.03	< 0.02	< 0.02	0.0164	0.0066	534	0.013	0.03	0.248	< 0.01	89.5	11	0.142	< 0.001	2.91	4.96
SITE:		GALKENO 900, SEEP NEAR SWAMP EFFLUENT															
31F	950711	0.04	< 0.02	< 0.02	0.0255	< 0.0005	468	0.036	< 0.002	6.56	< 0.01	47.4	23.1	0.178	< 0.001	2.43	5.61
31F	950905	0.03	< 0.02	< 0.02	0.0339	0.0007	402	0.036	0.003	1.61	0.009	41.3	20.7	0.18	0.001	2.5	5.29
SITE:		GALKENO 900, FLOW ALONG OLD PATH 5 m UPSTREAM CHRISTAL LAKE															
31G	950711	0.03	< 0.02	< 0.02	0.014	0.0023	471	0.013	0.004	0.721	< 0.01	50.3	16.9	0.11	< 0.001	2.32	4.64
31G	950905	0.05	< 0.02	< 0.02	0.0175	0.0009	369	0.012	< 0.002	0.058	< 0.005	40.7	10.9	0.081	< 0.001	2.42	3.01
SITE:		GALKENO 900, SEEP BELOW WETLAND ACCESS ROAD															
31H	950711	0.03	< 0.02	< 0.02	0.0072	0.0193	460	0.015	0.004	1.26	< 0.01	58.9	23.6	0.127	< 0.001	2.74	7.85
31H	950905	0.01	< 0.02	< 0.02	0.0082	0.012	436	0.022	< 0.002	0.036	< 0.005	57.3	24.9	0.126	< 0.001	2.97	6.2
31H	950905	0.05	< 0.02	< 0.02	0.0091	0.012	435	0.022	< 0.002	0.051	< 0.005	57	24.8	0.128	< 0.001	2.99	6.18
SITE:		GALKENO 300 ADIT															
32	940727	0.23	< 0.02	< 0.02	0.0013	0.449	247	0.1	< 0.002	2.77	< 0.01	43	171	0.412	< 0.001	2.35	134
32	950712	0.04	< 0.02	< 0.02	0.0021	0.26	255	0.12	< 0.002	1.2	< 0.10	41	143	0.45	< 0.001	2.23	126
32	950905	0.03	< 0.02	0.02	0.0038	0.505	235	0.158	< 0.002	0.126	0.07	39.2	105	0.565	0.002	2.63	112

United Keno Hill Mines Limited - Water Samples by LES															
Site #	Date	Total Metal Values in mg/L													
		Al	Sb	As	Sd	Ca	Co	Cu	Fe	Pb	Mg	Mn	Ni	Ag	Zn
SITE:		GALKENO 900, SEEP BELOW POND #1													
31C	950711	0.47	< 0.02	< 0.02	0.004	511	0.002	0.03	1.57	< 0.01	41.9	0.641	0.035	< 0.001	1.17
31C	950711	0.48	< 0.02	< 0.02	0.0038	512	< 0.001	0.03	1.66	< 0.01	42.2	0.667	0.036	< 0.001	1.21
31C	950905														
SITE:		GALKENO 900, SEEP BELOW POND #2													
31D	950711	0.05	< 0.02	< 0.02	0.0065	566	0.014	0.038	0.308	< 0.01	95.8	12.2	0.144	< 0.001	5.21
SITE:		GALKENO 900, SEEP NEAR SWAMP EFFLUENT													
31F	950711	0.85	< 0.02	< 0.02	< 0.0005	584	0.04	< 0.002	13.5	0.01	60.4	30	0.198	< 0.001	7.66
31F	950905														
SITE:		GALKENO 900, FLOW ALONG OLD PATH 5 m UPSTREAM CHRISTAL LAKE													
31G	950711	0.04	< 0.02	< 0.02	0.0024	625	0.013	0.005	2.14	< 0.01	68.8	23.3	0.1	< 0.001	4.89
31G	950905														
SITE:		GALKENO 900, SEEP BELOW WETLAND ACCESS ROAD													
31H	950711	0.05	< 0.02	< 0.02	0.0195	553	0.017	< 0.002	1.97	< 0.01	72	29.7	0.13	< 0.001	10.1
31H	950905														
31H	950905														
SITE:		GALKENO 300 ADIT													
32	940727	0.24	< 0.02	< 0.02	0.456	255	0.12	< 0.002	3.24	< 0.01	43.3	172	0.42	< 0.001	137
32	950712	0.09	< 0.02	< 0.02	0.382	259	0.128	< 0.002	3.21	0.11	43.6	144	0.479	0.003	130
32	950905														

United Keno Hill Mines Limited - Water Samples by LES									
Site #	Date	Flow m ³ /s	Total Alk.	In-situ Conduct.	lab Conduct.	uS/cm	In-situ pH	lab pH	Sulphate TDS
SITE: ERICKSON GULCH @ ROAD TO LUCKY QUEEN									
34	940727	0.0317	48	193		200	8.16	8.0	5.23 139
34	950712	0.0161	55	215			8.25	8.0	58 145
34	950905	0.0366	49	186.5		190	7.04	7.8	47.2 120.00
SITE: LIGHTNING CREEK UPSTREAM HOPE GULCH									
37	940728	0.3376	26	96.7		100	7.75	7.7	4.23 73
37	940908	0.2386	31	102			7.90	7.6	73
37	950712	0.3887	25	101.7			7.94	7.5	25.7 69
37	950904	0.4353	26	133.6		140	7.25	7.4	45.1 107.00
SITE: BELLEKENO DECANT FROM TAILINGS PONDS									
39A	950712		152	1063			7.92	7.9	546 966
SITE: BELLEKENO, SEEP BELOW DECANT									
39B	950712		175	1070			7.44	8.0	580 1050
39B	950904	0.002	164	1046		1100	6.82	7.7	574.0 1050.00
SITE: LIGHTNING CREEK AT KENO CITY ROAD CROSSING									
41	940726		40			150		7.8	36.5 107
41	940726	0.5487	40	144		150	8.10	7.7	35.7 110
41	940908	0.4572	42	156			8.05	7.8	117
41	950428	0.513	25	112.5			8.60	7.3	107
41	950712	0.6055	37	139.6			8.01	7.8	35.7 109
41	950905	0.6101	137	160		160	7.14	7.8	45.1 120.00

United Keno Hill Mines Limited - Water Samples by LES

Dissolved Metal Values in mg/L

Site #	Date	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mn	Ni	Ag	Na	Zn	
SITE:		ERICKSON GULCH @ ROAD TO LUCKY QUEEN																
34	940727	< 0.01	< 0.02	< 0.02	0.0637	< 0.0005	35.9	< 0.001	< 0.002	0.014	< 0.001	5.36	0.03	< 0.001	0.0003	0.88	0.059	
34	950712	0.01	< 0.02	< 0.02	0.0618	< 0.0005	35.7	< 0.001	0.007	0.007	< 0.01	5.45	< 0.001	< 0.001	< 0.001	1.1	0.012	
34	950905	0.03	< 0.02	< 0.02	0.0577	< 0.0005	28.7	< 0.001	0.006	0.032	< 0.005	4.38	0.0164	< 0.002	< 0.001	0.89	0.017	
SITE:		LIGHTNING CREEK UPSTREAM HOPE GULCH																
37	940728	< 0.01	< 0.02	< 0.02	0.054	< 0.0005	17	< 0.001	< 0.002	0.032	< 0.001	2.78	0.014	< 0.001	0.0001	0.73	< 0.00	
37	940908	<0.01	<0.02	<0.02	0.0483	<0.0005	16	<0.001	0.003	0.039	<0.01	2.71		<0.001	<0.001	0.79	<0.005	
37	950712	< 0.01	< 0.02	< 0.02	0.0489	< 0.0005	16.3	< 0.001	0.006	0.021	< 0.01	2.73	0.003	< 0.001	< 0.001	0.71	< 0.00	
37	950904	0.01	< 0.02	< 0.02	0.0588	< 0.0005	20	< 0.001	< 0.002	0.029	< 0.005	3.5	0.0079	< 0.002	< 0.001	0.81	< 0.001	
SITE:		BELLEKENO DECANT FROM TAILINGS PONDS																
39A	950712	0.03		0.02	< 0.02	0.0091	< 0.0005	208	< 0.001	0.018	0.019	< 0.01	37.3	0.454	0.014	< 0.001	1.91	0.073
SITE:		BELLEKENO, SEEP BELOW DECANT																
39B	950712	0.04	< 0.02	< 0.02	0.016	< 0.0005	213	< 0.001	0.022	0.046	< 0.01	38.9	0.127		0.01	< 0.001	2.04	0.143
39B	950904	0.03	< 0.02	< 0.02	0.0118	< 0.0005	179	< 0.001	< 0.002	0.007	< 0.005	33.9	0.0978		0.007	< 0.001	2.09	0.134
SITE:		LIGHTNING CREEK AT KENO CITY ROAD CROSSING																
41	940726	< 0.01	< 0.02	< 0.02	0.0528	< 0.0005	25.8	< 0.001	0.003	0.009	0.004	4.08	0.009	0.002	0.0002	0.86	0.027	
41	940726	< 0.01	< 0.02	< 0.02	0.0536	0.0007	26.3	< 0.001	0.003	0.008	0.003	4.14	0.011	< 0.001	0.0002	0.87	0.028	
41	940908	<0.01	<0.02	<0.02	0.0475	<0.0005	25.8	<0.001	0.002	0.01	<0.01	4.09		0.002	<0.001	0.86	0.008	
41	950428	0.1	< 0.02	< 0.02	0.0425	0.0017	17.1	< 0.001	0.008	0.126	< 0.01	2.84	0.043	< 0.001	< 0.001	0.81	0.053	
41	950712	< 0.01	< 0.02	< 0.02	0.0488	0.0022	23.2	< 0.001	0.008	< 0.00	< 0.01	3.69	0.018	0.002	< 0.001	0.85	< 0.00	
41	950905	0.02	< 0.02	< 0.02	0.0537	< 0.0005	24.2	< 0.001	< 0.002	0.01	< 0.005	3.99	0.0095	< 0.002	< 0.001	0.91	0.029	

United Keno Hill Mines Limited - Water Samples by LES

Total Metal Values in mg/L

Site #	Date	Al	Sb	As	Sd	Ca	Co	Cu	Fe	Pb	Mg	Mn	Ni	Ag	Zn	
SITE:		ERICKSON GULCH @ ROAD TO LUCKY QUEEN														
34	940727	0.02	< 0.02	< 0.02	< 0.0005	35.9	< 0.001	0.006	0.029	< 0.001	5.81	0.159	< 0.001	0.0003	0.121	
34	950712	0.02	< 0.02	< 0.02	< 0.0005	36.4	< 0.001	0.009	0.097	< 0.01	5.51	0.004	< 0.001	< 0.001	0.012	
34	950905															
SITE:		LIGHTNING CREEK UPSTREAM HOPE GULCH														
37	940728	< 0.01	< 0.02	< 0.02	< 0.0005	17.2	< 0.001	0.003	0.155	< 0.001	2.84	0.021	< 0.001	0.0001	0.006	
37	940908	0.02	< 0.02	< 0.02	< 0.0005	16.3	< 0.001	0.004	0.083	< 0.01	2.72		< 0.001	< 0.001	< 0.005	
37	950712	0.02	< 0.02	< 0.02	< 0.0005	16.8	< 0.001	0.01	0.099	< 0.01	2.75	0.01	< 0.001	< 0.001	0.014	
37	950904															
SITE:		BELLEKENO DECANT FROM TAILINGS PONDS														
39A	950712	0.05	< 0.02		0.03	< 0.0005	251	0.001	0.018	0.346	0.01	44.4	0.531	0.016	< 0.001	0.162
SITE:		BELLEKENO, SEEP BELOW DECANT														
39B	950712	0.05	< 0.02	< 0.02	< 0.0005	215	< 0.001	0.029	0.1	< 0.01	38.9	0.128	0.015	< 0.001	0.142	
39B	950904															
SITE:		LIGHTNING CREEK AT KENO CITY ROAD CROSSING														
41	940726	1.26	< 0.02	< 0.02	< 0.0005	26.6	< 0.001	0.009	2.3	0.004	4.1	0.072	0.005	0.0002	0.034	
41	940726	1.26	< 0.02	< 0.02	0.001	26.6	< 0.001	0.009	2.25	0.003	4.23	0.074	0.004	0.0002	0.065	
41	940908	0.76	< 0.02	< 0.02	< 0.0005	26.7	< 0.001	0.006	1.56	< 0.01	4.38		0.004	< 0.001	0.044	
41	950428	2.2	< 0.02	< 0.02	0.002	17.3	0.004	0.025	3.95	0.03	3.44	0.24	0.009	< 0.001	0.099	
41	950712	0.03	< 0.02	< 0.02	< 0.0005	23.4	< 0.001	0.016	0.084	< 0.01	3.71	0.023	0.002	< 0.001	< 0.005	
41	950905															

United Keno Hill Mines Limited - Water Samples by LES									
Site #	Date	Flow m ³ /s	Total Alk.	In-situ Conduct.	lab Conduct.	uS/cm	In-situ pH	lab pH	Sulphate TDS
SITE:		TAILINGS POND #3 WATER							
42	940728		30	657		690	9.17	8.3	338 577
SITE:		BREFAULT CREEK UPSTREAM PORCUPINE DIVERSION							
45	940729	0.007	158	1183		1250	7.83	8.1	550 1110
45	941028		196	1374			7.47	7.9	1200
45	950713	0.003	87	1150			7.63	8.0	743 1130
45	950907	0.004	155	1116		1200	7.53	7.9	567.0 1200.00
SITE:		FLAT CREEK UPSTREAM PORCUPINE DIVERSION							
46	941027	0.01	219	567			7.80	8.0	442
46	950713		171	553			7.80	8.1	168 488
46	950907	0.015	209	500		510	7.00	8.0	109.0 365.00
SITE:		PORCUPINE DIVERSION (FLAT CREEK) DOWNSTREAM OF ALL INPUTS							
47	940728	0.0301	177	987		1050	7.88	8.1	430 881
47	941027		214	1007			7.44	8.1	910
47	950713	0.0407	163	846			6.73	8.1	396 738
47	950713	0.0407	165	846			6.73	8.1	400 709
47	950907	0.0435	169	799		820	7.52	8.0	308.0 681.00
SITE:		HOPE GULCH							
48	940728	0.0062	46	245		255	8.04	8.0	86.8 189
48	940908	0.0002	48	250			8.01	7.9	182
48	950712	0.0052	43	226			7.85	7.8	78.8 165
48	950904	0.0287	31	174.4		185	7.33	7.7	56.1 128.00
48	950904	0.0287	28	174.4		190	7.33	7.6	56.0 117.00

United Keno Hill Mines Limited - Water Samples by LES

		Dissolved Metal Values in mg/L															
Site #	Date	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mn	Ni	Ag	Na	Zn
SITE:		TAILINGS POND #3 WATER															
42	940728	0.02 <	0.02 <	0.02 <	0.0131 <	0.0005	92.8 <	0.001 <	0.002	0.038 <	0.01	36.2	0.005 <	0.001 <	0.001	14.1	0.007
SITE:		BREFAULT CREEK UPSTREAM PORCUPINE DIVERSION															
45	940729	0.04 <	0.02 <	0.02 <	0.0167	0.0007	234 <	0.001 <	0.002	0.064 <	0.01	50.2	0.05 <	0.001 <	0.001	2.96	0.1
45	941028																
45	950713	0.02 <	0.02 <	0.02 <	0.0238 <	0.0005	221 <	0.001	0.08	0.074 <	0.01	45.9	0.189	0.003 <	0.001	2.9	0.012
45	950907	0.03 <	0.02 <	0.02 <	0.0144	0.0006	190 <	0.001	0.002	0.012 <	0.005	41	0.0312 <	0.002 <	0.001	3.16	0.094
SITE:		FLAT CREEK UPSTREAM PORCUPINE DIVERSION															
46	941027																
46	950713	0.02 <	0.02 <	0.02 <	0.0437 <	0.0005	99.4 <	0.001	0.007	0.026 <	0.01	21.3	1.3	0.003 <	0.001	1.6	0.116
46	950907	0.04 <	0.02 <	0.02 <	0.0442 <	0.0005	82.7 <	0.001	0.002	0.011 <	0.005	18.1	0.654	0.003 <	0.001	1.57	0.066
SITE:		PORCUPINE DIVERSION (FLAT CREEK) DOWNSTREAM OF ALL INPUTS															
47	940728	0.03 <	0.02 <	0.02 <	0.0392	0.0023	194 <	0.001 <	0.002	0.033 <	0.01	40.8	2.13 <	0.001 <	0.001	3.39	0.286
47	941027																
47	950713	0.02 <	0.02 <	0.02 <	0.0384	0.0019	150 <	0.001	0.012	0.01 <	0.01	32.3	2.15	0.006 <	0.001	2.94	0.274
47	950713	0.01 <	0.02 <	0.02 <	0.0381	0.0017	150 <	0.001	0.013	0.012 <	0.01	32.3	2.12	0.004 <	0.001	2.92	0.264
47	950907	0.04 <	0.02 <	0.02 <	0.0381	0.001	122 <	0.001 <	0.002	0.049 <	0.005	25.7	1.37 <	0.002 <	0.001	2.61	0.19
SITE:		HOPE GULCH															
48	940728	0.01 <	0.02 <	0.02 <	0.0595	0.0031	44.2 <	0.001 <	0.002	0.016	0.004	7.56	0.003 <	0.001	0.0001	1.34	0.234
48	940908	<0.01	<0.02	<0.02	0.496	0.0028	41 <	0.001	<0.002	0.007 <	0.01	7.18	<0.001	<0.001		1.19	0.221
48	950712	< 0.01 <	0.02 <	0.02 <	0.0504	0.0025	36 <	0.001	0.008	0.008 <	0.01	6.28	0.003 <	0.001 <	0.001	1.21	0.195
48	950904	0.02 <	0.02 <	0.02 <	0.0419	0.0026	27.8 <	0.001 <	0.002	0.004 <	0.005	4.83	0.0021 <	0.002 <	0.001	1.1	0.209
48	950904	0.02 <	0.02 <	0.02 <	0.0417	0.0026	27.5 <	0.001 <	0.002	0.005 <	0.005	4.78	0.0014 <	0.002 <	0.001	1.1	0.209

United Keno Hill Mines Limited - Water Samples by LES

		Total Metal Values in mg/L													
Site #	Date	Al	Sb	As	Sd	Ca	Co	Cu	Fe	Pb	Mg	Mn	Ni	Ag	Zn
SITE:		TAILINGS POND #3 WATER													
42	940728	0.03	< 0.02	< 0.02	< 0.0005	96.7	< 0.001	< 0.002	0.175	< 0.01	38.4	0.025	< 0.001	< 0.001	0.012
SITE:		BREFAULT CREEK UPSTREAM PORCUPINE DIVERSION													
45	940729	0.11	< 0.02	< 0.02	0.001	274	< 0.001	< 0.002	0.715	0.06	58	0.13	< 0.001	< 0.001	0.118
45	941028	< 0.01	< 0.02	< 0.02	0.0009	254	< 0.001	0.007	0.068	< 0.01	52.8	0.037	< 0.001	< 0.001	0.136
45	950713	2.6	< 0.02	< 0.02	< 0.0005	222	0.003	0.13	5.12	< 0.01	46	0.347	0.009	< 0.001	0.056
45	950907														
SITE:		FLAT CREEK UPSTREAM PORCUPINE DIVERSION													
46	941027	< 0.01	< 0.02	< 0.02	< 0.0005	95.6	< 0.001	0.006	0.1	< 0.01	20	0.137	< 0.001	< 0.001	0.015
46	950713	0.03	< 0.02	< 0.02	0.0007	99.3	< 0.001	0.016	0.095	< 0.01	21.9	1.35	0.004	< 0.001	0.133
46	950907														
SITE:		PORCUPINE DIVERSION (FLAT CREEK) DOWNSTREAM OF ALL INPUTS													
47	940728	0.23	< 0.02	< 0.02	0.0025	213	< 0.001	< 0.002	0.955	0.02	43.8	2.18	< 0.001	< 0.001	0.318
47	941027	0.04	< 0.02	< 0.02	0.0027	193	< 0.001	0.006	0.729	< 0.01	40.2	1.87	0.002	< 0.001	0.394
47	950713	0.1	< 0.02	< 0.02	0.0021	154	0.001	0.015	0.73	0.01	32.7	2.16	0.008	< 0.001	0.33
47	950713	0.1	< 0.02	< 0.02	0.0018	157	< 0.001	0.014	0.711	< 0.01	32.5	2.13	0.005	< 0.001	0.317
47	950907														
SITE:		HOPE GULCH													
48	940728	0.03	< 0.02	< 0.02	0.0032	44.5	< 0.001	< 0.002	0.143	0.004	7.79	0.009	0.002	0.0001	0.239
48	940908	0.02	< 0.02	< 0.02	0.0029	42.8	< 0.001	< 0.002	0.029	< 0.01	7.25		0.003	< 0.001	0.225
48	950712	0.01	< 0.02	< 0.02	0.003	36.9	< 0.001	0.009	0.062	< 0.01	6.37	0.003	0.003	< 0.001	0.196
48	950904														
48	950904														

United Keno Hill Mines Limited - Water Samples by LES									
Site #	Date	Flow m ³ /s	Total Alk.	In-situ Conduct.	lab Conduct.	uS/cm	In-situ pH	lab pH	Sulphate TDS
SITE:		COMBINED SEEPS IN PORCUPINE DIV. UPSTREAM BREFAULT CREEK							
51	940809		248			1300		7.7	536 1110
51	950714	0.002	262	1221			7.68	7.9	521 1190
51	950907	0.002	272	1204		1300	7.21	7.9	549.0 1040.00
SITE:		THUNDER GULCH UPSTREAM BELLEKENO ADIT							
52	940811		56			200		8.0	38.5 130
52	940908	0.0752	61	176			7.80	7.7	1130
52	950712	0.1047	45	142.9			8.00	7.8	28.3 100
52	950904	0.1549	45	140.7		150	7.38	8.0	25.1 111.00
SITE:		OLD GALKENO FRESHWATER PUMPHOUSE WATER							
53	940811		119			680		7.4	237 506
53	950711	0.003	128	650			7.57	7.8	276 537
53	950904	0.005	117	667		710	7.58	7.9	289.0 559.00
SITE:		THUNDER GULCH DOWNSTREAM BELLEKENO ADIT							
54	940908		60					7.9	132
54	940908	0.082	60	198			7.74	7.9	144
54	950712	0.1167	47	153.7			8.16	7.9	33.9 133
54	950904	0.16	52	151		160	7.72	7.9	30.0 97.00
SITE:		INFLOW TO SOUTH END OF CHRISTAL LAKE							
55	940908		128	812			7.35	7.6	719
55	950712	0.003	126	841			7.91	7.7	445 706
55	950904	0.006	89	624		650	7.15	7.4	290.0 543.00

United Keno Hill Mines Limited - Water Samples by LES

Dissolved Metal Values in mg/L

Site #	Date	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mn	Ni	Ag	Na	Zn
SITE:		COMBINED SEEPAGES IN PORCUPINE DIVERSION UPSTREAM BREFAULT CREEK															
51	940809		0.5 < 0.02	< 0.02	0.068	0.0093	230	0.001 < 0.002	3.26 < 0.01			49.3	7.45	0.002 < 0.001		6.67	1.03
51	950714		0.02 < 0.02	< 0.02	0.0591	0.0067	221	0.002	0.008	0.753 < 0.01		50.9	7.96	0.009 < 0.001		7.17	0.879
51	950907		0.04 < 0.02	< 0.02	0.0548	0.0056	192	0.003 < 0.002	0.011 < 0.005			43.6	6.15	0.003 < 0.001		7.45	0.838
SITE:		THUNDER GULCH UPSTREAM BELLEKENO ADIT															
52	940811		0.8 < 0.02	< 0.02	0.124 < 0.0005		33.1	0.005	0.017	1.18 < 0.01		5.72	0.189	0.012 < 0.001		0.77	0.04
52	940908		0.01 < 0.02	< 0.02	0.0387 < 0.0005		30.4 < 0.001		0.003	0.014 < 0.01		4.79		0.002 < 0.001		0.73 < 0.005	
52	950712	< 0.01	< 0.02	< 0.02	0.0372 < 0.0005		23.5 < 0.001		0.006	0.011 < 0.01		3.41	0.002	0.002 < 0.001		0.73	0.01
52	950904		0.02 < 0.02	< 0.02	0.0407 < 0.0005		24.4 < 0.001 < 0.002		0.008 < 0.005			3.78	0.003 < 0.002 < 0.001			0.85 < 0.001	
SITE:		OLD GALKENO FRESHWATER PUMPHOUSE WATER															
53	940811		0.15 < 0.02	< 0.02	0.139	0.0008	114 < 0.001 < 0.002		0.033 < 0.01			21.5	0.005 < 0.001 < 0.001			1.65	0.038
53	950711	< 0.01	< 0.02	< 0.02	0.122	0.0006	112 < 0.001		0.015	0.016 < 0.01		22.7	0.006 < 0.001 < 0.001			1.86	0.06
53	950904		0.02 < 0.02	< 0.02	0.132	0.001	112 < 0.001 < 0.002		0.007 < 0.005			23.9	0.0064 < 0.002 < 0.001			1.89	0.051
SITE:		THUNDER GULCH DOWNSTREAM BELLEKENO ADIT															
54	940908		0.01 < 0.02	< 0.02	0.0435 < 0.0005		34.6 < 0.001 < 0.002		0.01 < 0.01			5.42		0.002 < 0.001		0.76 < 0.005	
54	940908	< 0.01	< 0.02	< 0.02	0.0417 < 0.0005		33.3 < 0.001		0.003	0.018 < 0.01		5.24		0.002 < 0.001		0.74	0.01
54	950712	< 0.01	< 0.02	< 0.02	0.0377 < 0.0005		26 < 0.001		0.008	0.009 < 0.01		3.73	0.004 < 0.001 < 0.001			0.76	0.012
54	950904		0.02 < 0.02	< 0.02	0.0398 < 0.0005		25.5 < 0.001 < 0.002		0.006 < 0.005			3.85	0.0026 < 0.002 < 0.001			0.81	0.006
SITE:		INFLOW TO SOUTH END OF CRISTAL LAKE															
55	940908		0.03 < 0.02	< 0.02	0.0435	0.0006	152 < 0.001 < 0.002		0.122 < 0.01			26.6		0.005 < 0.001		1.68	0.289
55	950712		0.02 < 0.02	< 0.02	0.0434 < 0.0005		156 < 0.001		0.012	0.172 < 0.01		30	0.24	0.005 < 0.001		1.99	0.339
55	950904		0.04 < 0.02	< 0.02	0.0375 < 0.0005		104 < 0.001		0.003	0.306 < 0.005		21.5	0.195	0.002	0.014	1.62	0.23

United Keno Hill Mines Limited - Water Samples by LES

		Total Metal Values in mg/L													
Site #	Date	Al	Sb	As	Sd	Ca	Co	Cu	Fe	Pb	Mg	Mn	Ni	Ag	Zn
SITE:		COMBINED SEEPAGES IN PORCUPINE DIVERSION UPSTREAM BREFAULT CREEK													
51	940809	0.57	< 0.02	< 0.02	0.0093	283	0.001	< 0.002	4.08	0.01	60.5	9.18	0.004	< 0.001	1.04
51	950714														
51	950907														
SITE:		THUNDER GULCH UPSTREAM BELLEKENO ADIT													
52	940811	3.3	< 0.02	< 0.02	< 0.0005	33.1	0.005	0.02	6.41	< 0.01	5.84	0.193	0.012	< 0.001	0.041
52	940908	82	<0.02	<0.02	0.0167	79	0.127	0.636	161	0.94	36.3		0.484	<0.001	6.71
52	950712	0.16	< 0.02	< 0.02	< 0.0005	23.8	< 0.001	0.008	0.587	< 0.01	3.5	0.022	0.002	< 0.001	0.013
52	950904														
SITE:		OLD GALKENO FRESHWATER PUMPHOUSE WATER													
53	940811	0.16	< 0.02	< 0.02	0.0008	117	< 0.001	< 0.002	0.041	< 0.01	22	0.006	0.002	< 0.001	0.039
53	950711	< 0.01	< 0.02	< 0.02	0.0007	119	< 0.001	0.016	0.037	< 0.01	22.9	0.009	0.003	< 0.001	0.062
53	950904														
SITE:		THUNDER GULCH DOWNSTREAM BELLEKENO ADIT													
54	940908	96	<0.02	<0.02	0.0177	85	0.148	0.729	194	1.1	44.2		0.595	<0.001	7.95
54	940908	96	<0.02	<0.02	0.0187	86.8	0.153	0.75	195	1.1	46.4		0.613	<0.001	8.21
54	950712	0.17	< 0.02	< 0.02	< 0.0005	26.9	< 0.001	0.008	0.257	< 0.01	3.76	0.02	0.003	< 0.001	0.043
54	950904														
SITE:		INFLOW TO SOUTH END OF CRISTAL LAKE													
55	940908	0.07	<0.02	<0.02	<0.0005	160	<0.001	<0.002	0.35	<0.01	26.9		0.005	<0.001	0.315
55	950712	0.03	< 0.02	< 0.02	< 0.0005	157	< 0.001	0.014	0.512	< 0.01	31.1	0.251	0.005	< 0.001	0.339
55	950904														

United Keno Hill Mines Limited - Water Samples by LES									
Site #	Date	Flow m ³ /s	Total Alk.	In-situ Conduct.	lab Conduct.	uS/cm	In-situ pH	lab pH	Sulphate TDS
SITE:		CHRISTAL LAKE							
56	940908			917			8.02		
56	950711		112	653			7.52	8.1	536 879
56	950904		127	789		840	7.49	7.7	371.0 699.00
SITE:		MYSTERY CREEK							
58	940916		180			480		8.1	65.2 294
58	941028	0.009	191	467			7.41	8.1	316
SITE:		BURIED TAILS SEEPAGE (ELSA SIDE)							
59	941028		273	2020			7.20	7.8	933
59	950714	0.00005	281	1187			7.30	8.0	508 1010
59	950714	0.00005	281	1187			7.30	8.0	484 972
59	950907	0.4	302	1224		1300	7.27	7.4	552.0 1240.00
SITE:		EXPOSED TAILS SEEPAGE (POND SIDE)							
60	941028		297	1246			7.02	7.7	971
60	941028		300	1246			7.02	7.7	965
60	950714	0.0001	281	1127			7.38	8.0	416 893
60	950907	0.2	311	1030		1050	7.20	7.3	350.0 9.00
SITE:		SMALL FLOW INTO CHRISTAL CREEK PARALLEL TO KENO HIGHWAY, NEAREST THE ROAD							
61	950711		184	6.8			7.61	8.1	175 504
61	950905	0.005	176	625		640	7.15	7.8	180.0 523.00

United Keno Hill Mines Limited - Water Samples by LES																	
Site #	Date	Dissolved Metal Values in mg/L															
		Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mn	Ni	Ag	Na	Zn
SITE:		CHRISTAL LAKE															
56	940908																
56	950711	0.01 <	0.02	< 0.02	0.0284 <	0.0005	197 <	0.001	0.02	0.01 <	0.01	26.8	0.17	0.003 <	0.001	1.83	0.069
56	950904	0.02 <	0.02	< 0.02	0.0669 <	0.0005	131 <	0.001 <	0.002	0.004 <	0.005	24.3	0.184 <	0.002 <	0.001	1.86	0.213
SITE:		MYSTERY CREEK															
58	940916	< 0.01 <	0.02	< 0.02	0.108 <	0.0005	65.5 <	0.001	0.028	0.015 <	0.01	19.5	0.008 <	0.001 <	0.001	1.25 <	0.00
58	941028																
SITE:		BURIED TAILS SEEPAGE (ELSA SIDE)															
59	941028																
59	950714	< 0.01 <	0.02	< 0.02	0.0562 <	0.0005	219 <	0.001	0.018	2.2 <	0.01	39.7	0.655 <	0.001 <	0.001	5.36	0.092
59	950714	0.02 <	0.02	< 0.02	0.0566 <	0.0005	220 <	0.001	0.019	2.21 <	0.01	39.9	0.663	0.003 <	0.001	5.38	0.093
59	950907	0.03 <	0.02	< 0.02	0.0566 <	0.0005	215 <	0.001 <	0.002	0.909 <	0.005	39.7	0.713 <	0.002 <	0.001	5.54	0.094
SITE:		EXPOSED TAILS SEEPAGE (POND SIDE)															
60	941028																
60	941028																
60	950714	0.01 <	0.02	< 0.02	0.0278	0.0045	201 <	0.001	0.013	1.01 <	0.01	44.6	4.16	0.003 <	0.001	7.65	0.5
60	950907	0.03 <	0.02	< 0.02	0.0383	0.0055	165	0.001 <	0.002	0.463 <	0.005	36	5.74	0.004 <	0.001	7.49	0.8
SITE:		SMALL FLOW INTO CHRISTAL CREEK PARRELLEL TO KENO HIGHWAY, NEAREST THE ROAD															
61	950711	0.02 <	0.02	< 0.02	0.0223 <	0.0005	124 <	0.001	0.024	0.009 <	0.01	12.9	0.168 <	0.001 <	0.001	1.76	0.01
61	950905	0.03 <	0.02	< 0.02	0.0269	0.0007	121 <	0.001	0.003	0.007 <	0.005	14.8	0.245 <	0.002 <	0.001	1.85	0.039

United Keno Hill Mines Limited - Water Samples by LES

		Total Metal Values in mg/L														
Site #	Date	Al	Sb	As	Sd	Ca	Co	Cu	Fe	Pb	Mg	Mn	Ni	Ag	Zn	
SITE:		CHRISTAL LAKE														
56	940908	0.04	<0.02	<0.02	<0.0005	212	<0.001	<0.002	0.097	<0.01	26.4			0.011	<0.001	0.417
56	950711	0.01	< 0.02	< 0.02	< 0.0005	198	< 0.001	0.022	0.224	< 0.01	26.9	0.171		0.003	< 0.001	0.124
56	950904															
SITE:		MYSTERY CREEK														
58	940916	< 0.01	< 0.02	< 0.02	< 0.0005	67.9	< 0.001	0.032	0.129	< 0.01	20.4	0.009		0.002	< 0.001	0.007
58	941028	< 0.01	< 0.02	< 0.02	< 0.0005	64.1	< 0.001	0.005	0.065	< 0.01	18.8	0.022	< 0.001	< 0.001	< 0.001	< 0.005
SITE:		BURIED TAILS SEEPAGE (ELSA SIDE)														
59	941028	0.01	< 0.02	< 0.02	0.0007	241	0.002	0.005	5.3	< 0.01	43.2	2.07		0.004	< 0.001	0.069
59	950714															
59	950714															
59	950907															
SITE:		EXPOSED TAILS SEEPAGE (POND SIDE)														
60	941028	1.1	0.1	1.22	0.0852	240	0.006	0.1	159	14.5	48.1	58.5	0.013	0.049		7.2
60	941028	0.98	0.07	1	0.0834	247	0.004	0.096	154	14.8	49.2	57.1	0.013	0.044		7.2
60	950714															
60	950907															
SITE:		SMALL FLOW INTO CHRISTAL CREEK PARRELLEL TO KENO HIGHWAY, NEAREST THE ROAD														
61	950711	0.02	< 0.02	< 0.02	< 0.0005	125	< 0.001	0.024	0.044	< 0.01	13	0.169	< 0.001	< 0.001		0.012
61	950905															

United Keno Hill Mines Limited - Water Samples by LES

Site #	Date	Flow m ³ /s	Total Alk.	In-situ Conduct.	lab Conduct.	uS/cm	In-situ pH	lab pH	Sulphate	TDS
SITE:		SMALL FLOW INTO CHRISTAL CREEK PARALLEL TO KENO HIGHWAY, FURTHEST FROM THE ROAD								
62	950711		126	491			8.81	8.2	147	431
62	950905	0.012	89	383		400	7.51	8.1	110.0	326.00
SITE:		SANDY CREEK @ KENO HIGHWAY								
63	950711	0.0012	71	425			7.91	7.9	169	350
63	950711	0.0012	73	425			7.91	7.9	168	358
63	950904	0.0207	56	416		430	7.64	7.5	170.0	357.00
63	950904	0.0207	52	416		430	7.64	7.6	160.0	347.00
SITE:		UNNAMED CREEK 60m TOWARDS ELSA ON KENO HWY FROM HANSON TURNOFF								
64	950711	0.0025	98	351			8.32	8.1	97.6	293
64	950904	0.008	94	281		290	7.82	8.0	66.0	268.00
SITE:		GALKENO 300 SEEP								
65	950712	0.00045	173	1438			7.33	7.9	979	1610
65	950905	0.0003	155	1554		1550	7.40	7.6	890.0	1490.00
SITE:		SPRING ALONG DUNCAN CREEK ROAD								
66	950712	0.003	84	471			6.97	7.8	174	366
66	950904	0.0015	89	471		470	6.93	7.3	170.0	370.00
SITE:		PORCUPINE GULCH @ CALUMET ROAD CROSSING								
67	950712	0.006	88	392			7.94	8.2	134	319
67	950904	0.0104	82	428		440	7.74	8.1	150.0	449.00

United Keno Hill Mines Limited - Water Samples by LES

Site #	Date	Dissolved Metal Values in mg/L															
		Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mn	Ni	Ag	Na	Zn
SITE:		SMALL FLOW INTO CHRISTAL CREEK PARALLEL TO KENO HIGHWAY, FURTHEST FROM THE ROAD															
62	950711	0.02	< 0.02	< 0.02	0.0352	< 0.0005	104	< 0.001	0.015	0.026	< 0.01	5.93	0.041	0.003	< 0.001	1.36	0.007
62	950905	0.02	< 0.02	< 0.02	0.022	< 0.0005	75.3	< 0.001	0.003	0.015	< 0.005	5.46	0.011	< 0.002	< 0.001	1.18	0.004
SITE:		SANDY CREEK @ KENO HIGHWAY															
63	950711	0.01	< 0.02	< 0.02	0.0229	0.0012	69.4	< 0.001	0.013	0.009	< 0.01	14.8	0.006	0.004	< 0.001	2.19	0.536
63	950711	0.01	< 0.02	< 0.02	0.0228	0.0011	69.4	< 0.001	0.012	0.008	< 0.01	14.8	0.006	0.003	< 0.001	2.16	0.535
63	950904	0.03	< 0.02	< 0.02	0.0235	0.0029	61.3	< 0.001	0.003	0.023	< 0.005	14.4	0.0812	0.004	< 0.001	2.37	1
63	950904	0.03	< 0.02	< 0.02	0.0242	0.0032	61.8	< 0.001	0.004	0.03	< 0.005	14.5	0.0824	0.004	< 0.001	2.42	1.02
SITE:		UNNAMED CREEK 60m TOWARDS ELSA ON KENO HWY FROM HANSON TURNOFF															
64	950711	0.02	< 0.02	< 0.02	0.0479	< 0.0005	53.3	< 0.001	0.012	0.015	< 0.01	15	0.003	0.002	< 0.001	1.63	0.042
64	950904	0.03	< 0.02	< 0.02	0.0395	< 0.0005	42.2	< 0.001	0.003	0.009	< 0.005	12	0.0017	< 0.002	< 0.001	1.34	0.035
SITE:		GALKENO 300 SEEP															
65	950712	0.02	< 0.02	< 0.02	0.0142	< 0.0005	283	< 0.001	0.02	0.007	< 0.01	63.8	0.008	0.002	< 0.001	3.69	0.022
65	950905	0.03	< 0.02	< 0.02	0.0162	< 0.0005	281	< 0.001	< 0.002	0.007	< 0.005	64.5	0.0219	< 0.002	< 0.001	3.53	0.01
SITE:		SPRING ALONG DUNCAN CREEK ROAD															
66	950712	0.01	< 0.02	< 0.02	0.0168	0.0012	83.1	< 0.001	0.01	0.418	< 0.01	13.7	0.252	0.005	< 0.001	1.76	0.112
66	950904	0.02	< 0.02	< 0.02	0.025	0.001	76.8	0.002	0.003	1.71	< 0.005	13.4	0.724	0.006	< 0.001	1.71	0.116
SITE:		PORCUPINE GULCH @ CALUMET ROAD CROSSING															
67	950712	0.02	< 0.02	< 0.02	0.0521	0.0005	69.5	< 0.001	0.012	0.015	< 0.01	11.7	0.005	0.002	< 0.001	1.33	0.006
67	950904	0.03	< 0.02	< 0.02	0.0499	< 0.0005	74.2	< 0.001	0.002	0.022	< 0.005	12.3	0.0034	< 0.002	< 0.001	1.31	0.001

United Keno Hill Mines Limited - Water Samples by LES

		Total Metal Values in mg/L													
Site #	Date	Al	Sb	As	Sd	Ca	Co	Cu	Fe	Pb	Mg	Mn	Ni	Ag	Zn
SITE:		SMALL FLOW INTO CHRISTAL CREEK PARALLEL TO KENO HIGHWAY, FURTHEST FROM THE ROAD													
62	950711	0.03	< 0.02	< 0.02	< 0.0005	105	< 0.001	0.016	0.056	< 0.01	5.98	0.042	0.003	< 0.001	0.008
62	950905														
SITE:		SANDY CREEK @ KENO HIGHWAY													
63	950711	0.03	< 0.02	< 0.02	0.0012	69.9	< 0.001	0.014	0.02	< 0.01	14.9	0.008	0.004	< 0.001	0.536
63	950711	0.02	< 0.02	< 0.02	0.0012	69.7	< 0.001	0.014	0.02	< 0.01	14.8	0.009	0.004	< 0.001	0.535
63	950904														
63	950904														
SITE:		UNNAMED CREEK 60m TOWARDS ELSA ON KENO HWY FROM HANSON TURNOFF													
64	950711	0.05	< 0.02	< 0.02	< 0.0005	54.8	< 0.001	0.014	0.039	< 0.01	15.7	0.003	0.003	0.01	0.044
64	950904														
SITE:		GALKENO 300 SEEP													
65	950712	0.48	< 0.02	< 0.02	< 0.0005	299	< 0.001	0.027	1.67	< 0.01	68.6	0.052	0.005	< 0.001	0.023
65	950905														
SITE:		SPRING ALONG DUNCAN CREEK ROAD													
66	950712	0.51	< 0.02	0.05	0.001	86.1	0.003	0.014	4.7	< 0.01	13.8	0.323	0.008	< 0.001	0.118
66	950904														
SITE:		PORCUPINE GULCH @ CALUMET ROAD CROSSING													
67	950712	0.03	< 0.02	< 0.02	< 0.0005	70.1	< 0.001	0.013	0.039	< 0.01	11.8	0.005	0.002	< 0.001	0.007
67	950904														

United Keno Hill Mines Limited - Water Samples by LES									
Site #	Date	Flow m ³ /s	Total Alk.	In-situ Conduct.	lab Conduct.	uS/cm	In-situ pH	lab pH	Sulphate TDS
SITE:		FLAT CREEK @ BALLPARK ROAD CROSSING							
68	950712	0.004	151	315			8.27	8.2	29 228
68	950904	0.0141	131	259		290	7.59	8.0	23.0 254.00
SITE:		FLAT CREEK MIDWAY BETWEEN TAILINGS AND HUSKY S.W.							
69	950713	0.047	180					8.2	364 710
69	950907	0.0549	173			810		8.1	310.0 614.00
SITE:		FLAT CREEK BETWEEN HUSKY S.W. AND GALENA CREEK							
70	950713	0.1003	173					8.1	250 626
70	950907	0.1157	148			650		7.9	210.0 506.00
SITE:		FLAT CREEK DOWNSTREAM OF GALENA CREEK							
71	950713	0.2107	171					8.2	249 611
71	950713	0.2107	169					8.2	244 598
71	950907	0.2243	37			610		5.8	190.0 472.00
SITE:		SEEPAGE AT TOE OF #3 DAM							
73	950713		98	2860			6.73	7.5	2100 3810
SITE:		SEEPAGE ALONG ROAD BETWEEN GALKENO 300 & DUNCAN CREEK ROAD							
75	950904	0.0005	61	127		135	7.38	7.1	2.0 137.00
SITE:		STAR CREEK AT KENO HIGHWAY							
76	950904	0.0013	112	550		590	7.72	8.2	193.0 496.00
76	950904	0.0013	124	550		590	7.72	8.2	198.0 483.00

United Keno Hill Mines Limited - Water Samples by LES

		Dissolved Metal Values in mg/L															
Site #	Date	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mn	Ni	Ag	Na	Zn
SITE:		FLAT CREEK @ BALLPARK ROAD CROSSING															
68	950712	0.02 <	0.02	< 0.02	0.0576 <	0.0005	61.2 <	0.001	0.01	0.01 <	0.01	8	0.002	0.001 <	0.001	1	0.04
68	950904	0.05 <	0.02	< 0.02	0.0443 <	0.0005	48.7 <	0.001	0.008	0.054 <	0.005	6.52	0.005 <	0.002 <	0.001	0.88	0.005
SITE:		FLAT CREEK MIDWAY BETWEEN TAILINGS AND HUSKY S.W.															
69	950713	0.02 <	0.02	< 0.02	0.0398	0.0023	146 <	0.001	0.014	0.01 <	0.01	33.1	2.1	0.004 <	0.001	5.03	0.327
69	950907	0.03 <	0.02	< 0.02	0.0363	0.0015	122 <	0.001	0.002	0.008 <	0.005	29.4	1.45 <	0.002 <	0.001	3.79	0.217
SITE:		FLAT CREEK BETWEEN HUSKY S.W. AND GALENA CREEK															
70	950713	< 0.01 <	0.02	< 0.02	0.0332	0.0007	120 <	0.001	0.014	0.01 <	0.01	28.1	0.279	0.004 <	0.001	4.51	0.121
70	950907	0.03 <	0.02	< 0.02	0.0303	0.0006	103 <	0.001	0.004	0.019 <	0.005	26.9	0.295 <	0.002 <	0.001	3.72	0.1
SITE:		FLAT CREEK DOWNSTREAM OF GALENA CREEK															
71	950713	< 0.01 <	0.02	< 0.02	0.0396	0.0008	116 <	0.001	0.014	0.02 <	0.01	28.5	0.228	0.004 <	0.001	3.86	0.1
71	950713	0.02 <	0.02	< 0.02	0.0396	0.0007	113 <	0.001	0.014	0.02 <	0.01	27.6	0.231	0.002 <	0.001	3.88	0.1
71	950907	0.03 <	0.02	< 0.02	0.0324	0.0007	92.1 <	0.001	0.003	0.027 <	0.005	25.1	0.21 <	0.002 <	0.001	3.05	0.084
SITE:		SEEPAGE AT TOE OF #3 DAM															
73	950713	0.04 <	0.02	< 0.02	0.0126	0.0069	472	0.006 <	0.002	0.524 <	0.01	234	26.4	0.078 <	0.001	22.3	2.36
SITE:		SEEPAGE ALONG ROAD BETWEEN GALKENO 300 & DUNCAN CREEK ROAD															
75	950904	0.04 <	0.02	< 0.02	0.0422 <	0.0005	24.9 <	0.001	0.006	0.021 <	0.005	2.93	0.0017 <	0.002 <	0.001	0.72	0.006
SITE:		STAR CREEK AT KENO HIGHWAY															
76	950904	0.03 <	0.02	< 0.02	0.045 <	0.0005	89.6 <	0.001	0.003	0.011 <	0.005	20.7	0.0016 <	0.002 <	0.001	2.25	0.019
76	950904	0.03 <	0.02	< 0.02	0.0475 <	0.0005	96.4 <	0.001	0.004	0.023 <	0.005	22.4	0.0017 <	0.002 <	0.001	2.43	0.021

United Keno Hill Mines Limited - Water Samples by LES															
Site # Date		Total Metal Values in mg/L													
		Al	Sb	As	Sd	Ca	Co	Cu	Fe	Pb	Mg	Mn	Ni	Ag	Zn
SITE:		FLAT CREEK @ BALLPARK ROAD CROSSING													
68	950712	0.02 <	0.02 <	0.02 <	0.0005	62.8 <	0.001	0.011	0.171 <	0.01	8.1	0.003	0.034 <	0.001	0.028
68	950904														
SITE:		FLAT CREEK MIDWAY BETWEEN TAILINGS AND HUSKY S.W.													
69	950713	0.02 <	0.02 <	0.02 <	0.0025	148 <	0.001	0.014	0.521 <	0.01	34.4	2.19	0.005 <	0.001	0.353
69	950907														
SITE:		FLAT CREEK BETWEEN HUSKY S.W. AND GALENA CREEK													
70	950713	0.02 <	0.02 <	0.02 <	0.0009	125 <	0.001	0.017	0.239 <	0.01	28.5	0.282	0.005 <	0.001	0.158
70	950907														
SITE:		FLAT CREEK DOWNSTREAM OF GALENA CREEK													
71	950713	0.04 <	0.02 <	0.02 <	0.0008	118 <	0.001	0.016	0.263 <	0.01	29	0.235	0.004 <	0.001	0.12
71	950713	0.04 <	0.02 <	0.02 <	0.0008	117 <	0.001	0.016	0.265 <	0.01	27.7	0.237	0.003 <	0.001	0.127
71	950907														
SITE:		SEEPAGE AT TOE OF #3 DAM													
73	950713														
SITE:		SEEPAGE ALONG ROAD BETWEEN GALKENO 300 & DUNCAN CREEK ROAD													
75	950904														
SITE:		STAR CREEK AT KENO HIGHWAY													
76	950904														
76	950904														

United Keno Hill Mines Limited - Water Samples by LES										
Site #	Date	Flow m ³ /s	Total Alk.	In-situ Conduct.	lab Conduct.	uS/cm	In-situ pH	lab pH	Sulphate	TDS
SITE:		HUSKY SHAFT								
77	950905		7			250		6.4	112.0	217.00
SITE:		TAILINGS POND DECANT (S-1)								
72	950713	0.0025	27	668			8.70	7.6	373	631
72	950907	0.39	52	776		800	7.89	8.1	418.0	758.00
SITE:		HUSKY S.W. FLOW 500 METRES DOWNSTREAM ADIT								
74	950713		120					8.2	762	1050
74	950905		134			1200		7.5	625.0	1020
SITE:		UN ADIT (S-2)								
30	940727	0.0002	181	510		550	7.73	7.9	120	364
30	950705		159					8.1	111	382
30	950905		194			530		7.9	113.0	388.00
SITE:		BERMINGHAM ADIT (S-3)								
18	940727	0.0004	108	292		320	7.22	7.7	53	216
18	950905		112			315		7.0	64.6	275.00
18	950905		110			315		6.9	62.7	303.00
SITE:		NO CASH 500 ADIT (S-4)								
20	940727	0.0042	130	1055		1100	7.56	7.6	598	978
20	941027	0.0039	175	1167			7.70	8.0		1100
20	941027	0.0039	174	1167			7.70	7.9		1090
20	950905	0.005	112	913		950	7.16	7.5	504.0	893.00

United Keno Hill Mines Limited - Water Samples by LES

		Dissolved Metal Values in mg/L															
Site #	Date	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mn	Ni	Ag	Na	Zn
SITE:		HUSKY SHAFT															
77	950905	0.01 <	0.02	< 0.02	0.008	0.0132	19.6	0.004	0.013	0.007	0.024	1.99	4.42	0.019 <	0.001	10	1.88
SITE:		TAILINGS POND DECANT (S-1)															
72	950713	0.02 <	0.02	< 0.02	0.016	0.0007	83.9 <	0.001	0.015	0.009 <	0.01	30.1	0.017	0.005	0.001	11.8	0.02
72	950907	0.03 <	0.02	< 0.02	0.0171 <	0.0005	96 <	0.001	0.005	0.013 <	0.005	43.9	0.0358 <	0.002 <	0.001	14.8	0.052
SITE:		HUSKY S.W. FLOW 500 METRES DOWNSTREAM ADIT															
74	950713	0.01 <	0.02	< 0.02	0.0567 <	0.0005	212	0.002	0.2	0.01 <	0.01	38.3	1.97	0.007 <	0.001	2.88	0.024
74	950905	0.04 <	0.02	< 0.02	0.0406 <	0.0005	198	0.002	0.004	0.01 <	0.005	37.8	1.51	0.003 <	0.001	3.15	0.051
SITE:		UN ADIT (S-2)															
30	940727	0.02 <	0.02	< 0.02	0.0116 <	0.0005	110 <	0.001 <	0.002	0.041 <	0.01	11.2	0.217	0.007 <	0.001	1.18	0.1
30	950705	0.01 <	0.02	< 0.02	0.0112 <	0.0005	102 <	0.001	0.01	0.018 <	0.01	8.65	0.272	0.004 <	0.001	1.29	0.086
30	950905	0.03 <	0.02	< 0.02	0.01	0.0009	99.1 <	0.001 <	0.002 <	0.6 <	0.005	10.4	0.232	0.003 <	0.001	1.29	0.06
SITE:		BERMINGHAM ADIT (S-3)															
18	940727	< 0.01 <	0.02	0.06	0.0034	0.147	49.5 <	0.001 <	0.002	0.019	0.002	8.78	1.68	0.005	0.0004	0.91	4.82
18	950905	0.03 <	0.02	0.06	0.0031	0.152	49.3 <	0.001	0.003 <	0.00 <	0.005	9.65	1.44	0.004 <	0.001	1.16	5.48
18	950905	0.03 <	0.02	0.06	0.0031	0.148	48 <	0.001	0.005	0.005 <	0.005	9.37	1.41	0.004 <	0.001	1.14	5.32
SITE:		NO CASH 500 ADIT (S-4)															
20	940727	0.05 <	0.02	< 0.02	0.0025	0.124	209	0.013 <	0.002	0.093	0.01	23.4	15.3	0.092	0.001	1.32	14.2
20	941027																
20	941027																
20	950905	0.04 <	0.02	< 0.02	0.0043	0.15	155	0.011	0.005	0.006	0.019	21.2	13.7	0.081 <	0.001	1.36	13.1

United Keno Hill Mines Limited - Water Samples by LES

Site #	Date	Total Metal Values in mg/L													
		Al	Sb	As	Sd	Ca	Co	Cu	Fe	Pb	Mg	Mn	Ni	Ag	Zn
SITE:		HUSKY SHAFT													
77	950905														
SITE:		TAILINGS POND DECANT (S-1)													
72	950713	0.03 <	0.02 <	0.02 <	0.0005	84	0.001	0.016	0.069 <	0.01	30.7	0.043	0.005 <	0.001	0.05
72	950907														
SITE:		HUSKY S.W. FLOW 500 METRES DOWNSTREAM ADIT													
74	950713	1.8 <	0.02 <	0.02 <	0.0005	217	0.005	0.023	4.3 <	0.01	38.4	2.02	0.012 <	0.001	0.071
74	950905														
SITE:		UN ADIT (S-2)													
30	940727	0.02 <	0.02 <	0.02 <	0.0005	113 <	0.001 <	0.002	0.071 <	0.01	11.3	0.225	0.008 <	0.001	0.1
30	950705	0.02 <	0.02 <	0.02 <	0.0005	103 <	0.001	0.012	0.117 <	0.01	8.67	0.273	0.004 <	0.001	0.096
30	950905														
SITE:		BERMINGHAM ADIT (S-3)													
18	940727	0.01 <	0.02	0.07	0.15	48.9 <	0.001 <	0.002	0.144	0.002	8.62	1.7	0.005	0.0004	4.88
18	950905														
18	950905														
SITE:		NO CASH 500 ADIT (S-4)													
20	940727	0.22 <	0.02	0.05	0.14	249	0.014 <	0.002	5.01	0.038	23.5	19.5	0.098	0.0012	18.5
20	941027	0.19 <	0.02	0.03	0.0784	263	0.012	0.019	4.69	0.02	25.6	14.1	0.097 <	0.001	10.9
20	941027	0.19 <	0.02	0.03	0.0764	261	0.012	0.019	4.77	0.03	25	14	0.097 <	0.001	10.8
20	950905														

United Keno Hill Mines Limited - Water Samples by LES

Site #	Date	Flow m ³ /s	Total Alk.	In-situ Conduct.	lab Conduct.	uS/cm	In-situ pH	lab pH	Sulphate	TDS
SITE:		GALKENO 900 ADIT (S-5)								
31	940727		174			2200		7.4	1400	2390
31	940727	0.005	176	2090		2200	6.91	7.5	1400	2300
31	950711	0.07238	151	1979			6.85	7.4	1380	2470
SITE:		KENO 700 ADIT (S-6)								
38	940727	0.0022	161	515		550	7.73	8.1	150	387
38	950712		173	546			7.85	8.1	147	397
38	950905		103			550		8.1	197.0	428.00
SITE:		SADIE LADUE ADIT (S-7)								
35	940728	0.0129	157	410		440	7.94	8.1	5.62	301
35	950712		139	458			8.04	8.2	118	325
35	950712		147	458			8.04	8.2	119	320
35	950905		138			470		8.0	112.0	341.00
SITE:		ONEK ADIT (S-8)								
40	940727	0.0005	131	1075		1100	7.90	7.4	470	945
40	950712		110	1041			7.39	7.3	564	948
40	950905		138			1100		7.2	543.0	1010.00
SITE:		BELLEKENO ADIT (S-12)								
39	940727	0.0013	171	1130		1200	8.08	8.1	540	1030

United Keno Hill Mines Limited - Water Samples by LES

		Dissolved Metal Values in mg/L															
Site #	Date	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mn	Ni	Ag	Na	Zn
SITE:		GALKENO 900 ADIT (S-5)															
31	940727	0.13	< 0.02	0.06	0.0081	0.0168	491	0.082	< 0.002	2.75	< 0.01	40.6	63	0.46	< 0.001	2.43	27.4
31	940727	0.13	< 0.02	0.05	0.0077	0.0162	497	0.079	< 0.002	2.78	< 0.01	41.1	63.8	0.449	< 0.001	2.4	27.6
31	950711	0.05	< 0.02	< 0.02	0.0068	0.01	447	0.056	< 0.002	0.689	0.02	36.3	49.9	0.344	< 0.001	2.32	21.4
SITE:		KENO 700 ADIT (S-6)															
38	940727	< 0.01	< 0.02	0.05	0.0124	0.0075	106	< 0.001	< 0.002	0.01	< 0.01	12.7	0.029	0.004	< 0.001	2.09	0.833
38	950712	0.02	< 0.02	0.04	0.0126	0.0078	107	< 0.001	0.014	0.005	< 0.01	14.2	0.02	0.004	< 0.001	2.28	0.869
38	950905	0.02	< 0.02	0.03	0.0149	0.054	94.7	< 0.001	0.003	< 0.6	0.006	11	0.222	0.007	< 0.001	2.15	2.46
SITE:		SADIE LADUE ADIT (S-7)															
35	940728	0.02	< 0.02	< 0.02	0.0127	0.0024	66	< 0.001	< 0.002	0.025	< 0.01	21.2	0.011	0.008	< 0.001	2.06	0.33
35	950712	< 0.01	< 0.02	< 0.02	0.0132	0.0019	66.4	< 0.001	0.01	0.016	< 0.01	22.3	0.004	0.008	< 0.001	2.18	0.489
35	950712	< 0.01	< 0.02	< 0.02	0.0132	0.0019	67.3	< 0.001	0.013	0.008	< 0.01	22.5	0.007	0.009	< 0.001	2.18	0.48
35	950905	0.03	< 0.02	< 0.02	0.0138	0.0027	65.5	< 0.001	0.002	0.018	< 0.005	22.2	0.0453	0.01	< 0.001	2.18	0.349
SITE:		ONEK ADIT (S-8)															
40	940727	0.07	< 0.02	< 0.02	0.0061	0.924	219	0.01	< 0.002	0.029	< 0.01	20.6	6.43	0.025	< 0.001	1.63	56.4
40	950712	0.02	< 0.02	0.03	0.0066	1.29	202	0.009	0.015	0.005	0.05	19	5.31	0.03	< 0.001	1.68	63.3
40	950905	0.03	< 0.02	< 0.02	0.0069	0.807	176	0.009	< 0.002	0.005	0.035	18	4.88	0.028	< 0.001	1.71	43.2
SITE:		BELLEKENO ADIT (S-12)															
39	940727	0.04	< 0.02	< 0.02	0.0036	0.0276	225	< 0.001	< 0.002	0.033	< 0.01	48.2	0.562	0.034	< 0.001	1.95	4.37

United Keno Hill Mines Limited - Water Samples by LES															
Site #	Date	Total Metal Values in mg/L													
		Al	Sb	As	Sd	Ca	Co	Cu	Fe	Pb	Mg	Mn	Ni	Ag	Zn
SITE:		GALKENO 900 ADIT (S-5)													
31	940727	0.56 < 0.02		0.06	0.017	492	0.087 < 0.002		4.87 < 0.01		41.5	63.5	0.463 < 0.001		27.6
31	940727	0.57 < 0.02		0.06	0.0166	500	0.08 < 0.002		4.88 0.01		41.4	64.4	0.448 < 0.001		27.7
31	950711	0.19 < 0.02		< 0.02	0.0156	549	0.057 < 0.002		37 0.05		45.1	64.2	0.364 < 0.001		30.8
SITE:		KENO 700 ADIT (S-6)													
38	940727	0.02 < 0.02		0.05	0.0076	110 < 0.001	0.013	0.043 < 0.01		12.9	0.03	0.004 < 0.001		0.89	
38	950712	0.02 < 0.02		0.06	0.0083	108 < 0.001	0.014	0.019 < 0.01		14.9	0.021	0.006 < 0.001		0.868	
38	950905														
SITE:		SADIE LADUE ADIT (S-7)													
35	940728	0.02 < 0.02		< 0.02	0.0025	66.4 < 0.001 < 0.002		0.1 < 0.01		21.7	0.043	0.008 < 0.001		0.334	
35	950712	< 0.01 < 0.02		< 0.02	0.0026	87.6 < 0.001		0.012	0.024 < 0.01		23.1	0.012	0.009 < 0.001		0.489
35	950712	0.01 < 0.02		< 0.02	0.0025	91.1 < 0.001		0.013	0.033 < 0.01		23	0.012	0.009 < 0.001		0.483
35	950905														
SITE:		ONEK ADIT (S-8)													
40	940727	0.07 < 0.02		< 0.02	0.93	227	0.01 < 0.002		0.745 < 0.01		20.7	6.43	0.027 < 0.001		59.6
40	950712	0.02 < 0.02		0.12	1.66	245	0.009 0.017		1.07 0.07		20.5	7.12	0.033 < 0.001		84.1
40	950905														
SITE:		BELLEKENO ADIT (S-12)													
39	940727	0.04 < 0.02		< 0.02	0.0275	233 < 0.001 < 0.002		0.068 < 0.01		49.2	0.563	0.035 < 0.001		4.4	

United Keno Hill Mines Limited - Water Samples by LES									
Site #	Date	Flow m ³ /s	Total Alk.	In-situ Conduct.	lab Conduct.	uS/cm	In-situ pH	lab pH	Sulphate TDS
SITE:		SILVER KING ADIT (S-13)							
12	940727	0.004	69	863		870	6.86	6.9	438 722
12	941027	0.0069	55	884				6.6	775
12	950905		45			1100		7.3	562.0 981.00
SITE:		RUBY ADIT (S-15)							
19	940727	0.001	110	448		480	7.83	8.0	138 347
19	950905		119			450		7.7	135.0 249.00
SITE:		HUSKY SOUTH WEST ADIT (S-17)							
14	940727	0.002	126	1279		1300	7.04	6.9	693 1160
14	950712		135	1216			6.94	7.3	611 1100
14	950905		148			1250		6.8	685.0 1080.00
SITE:		SEEP ALONG ROAD TO GALKENO 900, 80 METRES FROM ADIT CLEARING							
78	950905	0.0005	110	502		510	7.58	7.9	171.0 425.00

United Keno Hill Mines Limited - Water Samples by LES																	
Site #	Date	Dissolved Metal Values in mg/L															
		Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mn	Ni	Ag	Na	Zn
SITE:		SILVER KING ADIT (S-13)															
12	940727	0.04	< 0.02	0.05	0.0168	0.0146	131	0.023	< 0.002	16.3	< 0.001	31.9	3.66	0.077	0.0002	2.25	2.04
12	941027	0.03	0.02	0.04	0.0167	0.0209	120	0.024	0.085	18.5	< 0.01	31.3	3.78	0.089	< 0.001	2.54	1.65
12	950905	0.03	< 0.02	< 0.02	0.0064	0.0179	160	0.032	0.004	0.089	< 0.005	38.3	2.91	0.119	< 0.001	3.38	0.938
SITE:		RUBY ADIT (S-15)															
19	940727	0.03	< 0.02	< 0.02	0.0075	0.0126	81.8	0.005	< 0.002	0.04	0.007	11.4	3.75	0.032	0.0002	1.11	1.36
19	950905	0.04	< 0.02	< 0.02	0.0079	0.0099	76.9	0.005	< 0.002	0.008	< 0.005	11.6	3.53	0.03	< 0.001	1.33	1.14
SITE:		HUSKY SOUTH WEST ADIT (S-17)															
14	940727	0.07	< 0.02	0.12	0.0077	< 0.0005	238	0.035	< 0.002	28	0.006	34.2	18.9	0.1	0.0002	2.36	0.846
14	950712	0.02	< 0.02	< 0.02	0.0084	< 0.0005	231	0.025	< 0.002	9.68	< 0.01	32.9	16.9	0.074	< 0.001	2.39	0.45
14	950905	0.04	< 0.02	< 0.02	0.008	< 0.0005	210	0.024	0.004	7.49	< 0.005	32.1	15.4	0.077	< 0.001	2.79	0.397
SITE:		SEEP ALONG ROAD TO GALKENO 900, 80 METRES FROM ADIT CLEARING															
78	950905	0.02	< 0.02	< 0.02	0.0446	< 0.0005	87.4	< 0.001	0.003	0.092	< 0.005	12.9	0.0584	< 0.002	< 0.001	1.21	0.015

United Keno Hill Mines Limited - Water Samples by LES

		Total Metal Values in mg/L														
Site #	Date	Al	Sb	As	Sd	Ca	Co	Cu	Fe	Pb	Mg	Mn	Ni	Ag	Zn	
SITE:		SILVER KING ADIT (S-13)														
12	940727	0.28	< 0.02	0.1	0.0158	149	0.023	0.029	24	< 0.001	35	3.78	0.08	0.0002	2.15	
12	941027	1.8	0.03	0.2	0.0253	152	0.029	0.562	38	< 0.01	35.3	4.22	0.097	< 0.001	1.99	
12	950905															
SITE:		RUBY ADIT (S-15)														
19	940727	0.2	< 0.02	0.04	0.0164	82.4	0.006	< 0.002	2.8	0.007	11.5	3.86	0.035	0.0002	1.69	
19	950905															
SITE:		HUSKY SOUTH WEST ADIT (S-17)														
14	940727	0.08	< 0.02	0.15	0.0007	317	0.035	< 0.002	45	0.006	44.3	27.2	0.1	0.0002	0.89	
14	950712	0.03	< 0.02	0.08	0.0015	240	0.025	< 0.002	16.3	0.01	34.3	17.6	0.075	< 0.001	0.555	
14	950905															
SITE:		SEEP ALONG ROAD TO GALKENO 900, 80 METRES FROM ADIT CLEARING														
78	950905															

STATION NUMBER:		LES 3					
STATION DESCRIPTION:		South McQuesten River upstream of confluence with Flat Cre					
Sampled by:		LES	LES	LES	LES	LES	LES
Date		94-7-28	94-7-28	94-9-6	94-10-26	94-10-26	95-4-26
Flow	L/s	3333.9		1953.1	1099	1099	
Water	Temp oC			8.0	0.3	0.3	0.2
Dissoived	oxygen mg/L	8.6		12.0	11.2	11.2	
Hydroxide	CaCO ₃				< 5.	< 5.	< 5.
Carbonate	CaCO ₃				< 5.	< 5.	< 5.
Bicarb.	CaCO ₃				129	126	94
Total Alk.	CaCO ₃	108	106	105	129	126	94
Colour	TCU	5	5				
Conduct.	uS/cm						
	In-situ	278		303	320	320	322
	lab	305	310				
pH	In-situ	8.26		8.06	7.92	7.92	7.89
pH	lab	8.1	8.1	8.0	8.1	8.1	7.7
TURBIDITY	(FTU)	< 1.	< 1.				
NFR		< 5.	< 5.	< 5.	< 5.	< 5.	< 5.
TDS		199	197	231	231	236	245
Chloride	Cl	< 1.	< 1.				
Fluoride	F	< 1.	< 1.				
Nitrate	NO ₃ -N	< 0.5	< 0.5				
Nitrite	NO ₂ -N	< 1.	< 1.				
Sulfate	SO ₄	51.6	52.5				
Ammonia	NH ₃ -N	< 0.05	< 0.05				
Total CN		< 0.005	-				

STATION NUMBER:			LES 3				
STATION DESCRIPTION:			South McQuesten River upstream of confluence with Flat Cre				
Sampled by:			LES	LES	LES	LES	LES
Date			94-7-28	94-7-28	94-9-6	94-10-26	95-4-26
Aluminum	Al	Dissolved	0.05	0.05	0.02		< 0.01
Antimony	Sb	Dissolved	< 0.02	< 0.02	<0.02		< 0.02
Arsenic	As	Dissolved	< 0.02	< 0.02	<0.02		< 0.02
Barium	Ba	Dissolved	0.0598	0.0605	0.0591		0.0553
Beryllium	Be	Dissolved	< 0.0002	< 0.0002	<0.0002		< 0.0002
Bismuth	Bi	Dissolved	< 0.02	< 0.02	<0.02		< 0.02
Cadmium	Cd	Dissolved	< 0.0005	< 0.0005	<0.0005		< 0.0005
Calcium	Ca	Dissolved	44.7	45.5	45.2		43.3
Chromium	Cr	Dissolved	< 0.001	< 0.001	<0.001		< 0.001
Cobalt	Co	Dissolved	< 0.001	< 0.001	<0.001		< 0.001
Copper	Cu	Dissolved	< 0.002	< 0.002	0.003		0.01
Iron	Fe	Dissolved	0.065	0.066	0.08		0.114
Lead	Pb	Dissolved	< 0.001	< 0.001	<0.01		< 0.01
Lithium	Li	Dissolved	< 0.002	< 0.002	<0.002		< 0.002
Magnesium	Mg	Dissolved	12.6	12.9	13.7		12.1
Manganese	Mn	Dissolved	0.037	0.038			0.079
Molybdenum	Mo	Dissolved	< 0.005	< 0.005	<0.005		< 0.005
Nickel	Ni	Dissolved	0.003	0.004	0.006		0.003
Phosphorus	P	Dissolved	< 0.06	< 0.06	<0.06		< 0.06
Potassium	K	Dissolved	0.3	0.4	0.3		0.9
Selenium	Se	Dissolved	< 0.001	< 0.001	<0.02		< 0.02
Silicon	Si	Dissolved	1.64	1.66	1.74		2.54
Silver	Ag	Dissolved	< 0.0001	< 0.0001	<0.001		< 0.001
Sodium	Na	Dissolved	1.42	1.43	1.67		1.74
Strontium	Sr	Dissolved	0.17	0.18	0.17		0.16
Sulfur	S	Dissolved	17.8	18.2	20		19.6
Tin	Sn	Dissolved	< 0.01	< 0.01	<0.01		< 0.01
Titanium	Ti	Dissolved	< 0.001	< 0.001	<0.001		< 0.01
Thorium	Th	Dissolved	< 0.01	< 0.01	<0.01		0.002
Uranium	U	Dissolved	< 0.07	< 0.07	<0.07		< 0.07
Vanadium	V	Dissolved	< 0.002	< 0.002	<0.002		0.003
Zinc	Zn	Dissolved	0.016	0.016	0.011		0.072
Zirconium	Zr	Dissolved	< 0.001	< 0.001	<0.001		< 0.001

STATION NUMBER:			LES 3					
STATION DESCRIPTION:			South McQuesten River upstream of confluence with Flat Cre					
Sampled by:			LES	LES	LES	LES	LES	LES
Date			94-7-28	94-7-28	94-9-6	94-10-26	94-10-26	95-4-26
Aluminum	Al	Total	0.06	0.05	0.04	0.03	0.03	0.03
Antimony	Sb	Total	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Arsenic	As	Total	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Barium	Ba	Total	0.0668	0.0609	0.063	0.0612	0.0619	0.0557
Beryllium	Be	Total	< 0.0002	< 0.0002	< 0.0002	0.0002	0.0002	< 0.0002
Bismuth	Bi	Total	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Cadmium	Cd	Total	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Calcium	Ca	Total	49.1	46.2	45.6	49.7	50.1	43.3
Chromium	Cr	Total	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Cobalt	Co	Total	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Copper	Cu	Total	0.008	< 0.002	0.003	0.005	0.007	0.017
Iron	Fe	Total	0.199	0.133	0.213	0.234	0.195	0.28
Lead	Pb	Total	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.01
Lithium	Li	Total	< 0.002	< 0.002	< 0.002	0.002	0.004	< 0.002
Magnesium	Mg	Total	13.9	12.9	13.7	14.3	14.4	12.5
Manganese	Mn	Total	0.047	0.041		0.072	0.072	0.08
Molybdenum	Mo	Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Nickel	Ni	Total	0.003	0.004	0.006	0.004	0.003	0.004
Phosphorus	P	Total	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Potassium	K	Total	0.3	0.4	0.4	0.3	0.3	1
Selenium	Se	Total	< 0.001	< 0.001	< 0.02	< 0.02	< 0.02	< 0.02
Silicon	Si	Total	1.88	1.67	1.86	2.06	2.09	2.58
Silver	Ag	Total	< 0.0001	< 0.0001	< 0.001	< 0.001	< 0.001	< 0.001
Sodium	Na	Total	1.61	1.45	1.71	1.85	1.79	1.8
Strontium	Sr	Total	0.19	0.17	0.17	0.18	0.18	0.15
Sulfur	S	Total	20.5	18.2	20.9	19.8	20	19.7
Tin	Sn	Total	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Titanium	Ti	Total	< 0.001	< 0.001	< 0.001	0.002	0.002	< 0.01
Thorium	Th	Total	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.002
Uranium	U	Total	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07
Vanadium	V	Total	0.004	0.003	< 0.002	0.003	0.004	0.003
Zinc	Zn	Total	0.018	0.018	0.016	0.023	0.025	0.075
Zirconium	Zr	Total	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

STATION NUMBER:		LES 3		
STATION DESCRIPTION:		South McQuesten River upstream of Flat Creek		
Sampled by:		LES	LES	LES
Date		95-7-12	95-9-6	95-9-6
Flow	L/s		4400	4400
Water	Temp oC	17.7	10.0	10.0
Dissolved	oxygen mg/L	9.1		
Hydroxide	CaCO ₃	< 1.	< 5.	< 5.
Carbonate	CaCO ₃	< 1.	< 5.	< 5.
Bicarb.	CaCO ₃	94	96	89
Total Alk.	CaCO ₃	94	96	89
Colour	TCU			
Conduct.	uS/cm	272	275	275
	In-situ			
	lab		290	290
pH	In-situ	8.10	7.63	7.63
pH	lab	8.2	8.0	8.0
TURBIDITY	(FTU)			
NFR		< 5.	< 5.	< 5.
TDS		209	219.00	213.00
Chloride	Cl			
Fluoride	F			
Nitrate	NO ₃ -N			
Nitrite	NO ₂ -N			
Sulfate	SO ₄	56.8	61.6	61.3
Ammonia	NH ₃ -N			
Total CN				

STATION NUMBER:			LES 3		
STATION DESCRIPTION:			South McQuesten River upstream of Flat Creek		
Sampled by:			LES	LES	LES
Date			95-7-12	95-9-6	95-9-6
Aluminum	Al	Dissolved	0.05	0.05	0.06
Antimony	Sb	Dissolved	< 0.02	< 0.02	< 0.02
Arsenic	As	Dissolved	< 0.02	< 0.02	< 0.02
Barium	Ba	Dissolved	0.0536	0.0519	0.0522
Beryllium	Be	Dissolved	< 0.0002	< 0.0002	< 0.0002
Bismuth	Bi	Dissolved	< 0.02	< 0.02	< 0.02
Cadmium	Cd	Dissolved	< 0.0005	< 0.0005	< 0.0005
Calcium	Ca	Dissolved	39.5	44.3	44.8
Chromium	Cr	Dissolved	< 0.001	< 0.001	< 0.001
Cobalt	Co	Dissolved	< 0.001	0.001	< 0.001
Copper	Cu	Dissolved	0.015	0.003	0.004
Iron	Fe	Dissolved	0.031	0.052	0.068
Lead	Pb	Dissolved	< 0.01	< 0.005	< 0.005
Lithium	Li	Dissolved	0.004	0.004	0.003
Magnesium	Mg	Dissolved	12	13.6	13.7
Manganese	Mn	Dissolved	0.034	0.0458	0.0459
Molybdenum	Mo	Dissolved	< 0.005	< 0.005	< 0.005
Nickel	Ni	Dissolved	0.004	0.007	0.007
Phosphorus	P	Dissolved	< 0.06	0.22	0.21
Potassium	K	Dissolved	0.3	0.4	0.3
Selenium	Se	Dissolved	< 0.02	< 0.02	< 0.02
Silicon	Si	Dissolved	1.62	2.05	2.14
Silver	Ag	Dissolved	< 0.001	< 0.001	< 0.001
Sodium	Na	Dissolved	1.61	1.63	1.64
Strontium	Sr	Dissolved	0.16	0.161	0.165
Sulfur	S	Dissolved	17.2	19.3	19.8
Tin	Sn	Dissolved	< 0.01	< 0.005	< 0.005
Titanium	Ti	Dissolved	< 0.001	< 0.001	< 0.001
Thorium	Th	Dissolved	< 0.01	< 0.005	< 0.005
Uranium	U	Dissolved	< 0.07	< 0.06	< 0.06
Vanadium	V	Dissolved	< 0.002	0.002	0.002
Zinc	Zn	Dissolved	0.016	0.034	0.035
Zirconium	Zr	Dissolved	< 0.001	< 0.001	< 0.001

STATION NUMBER:			LES 3		
STATION DESCRIPTION:			South McQuesten River upstream of Flat Creek		
Sampled by:			LES	LES	LES
Date			95-7-12	95-9-6	95-9-6
Aluminum	Al	Total	0.07		
Antimony	Sb	Total	< 0.02		
Arsenic	As	Total	< 0.02		
Barium	Ba	Total	0.0556		
Beryllium	Be	Total	< 0.0002		
Bismuth	Bi	Total	< 0.02		
Cadmium	Cd	Total	< 0.0005		
Calcium	Ca	Total	39.8		
Chromium	Cr	Total	< 0.001		
Cobalt	Co	Total	< 0.001		
Copper	Cu	Total	0.016		
Iron	Fe	Total	0.16		
Lead	Pb	Total	< 0.01		
Lithium	Li	Total	0.003		
Magnesium	Mg	Total	12.2		
Manganese	Mn	Total	0.051		
Molybdenum	Mo	Total	< 0.005		
Nickel	Ni	Total	0.004		
Phosphorus	P	Total	< 0.06		
Potassium	K	Total	0.3		
Selenium	Se	Total	< 0.02		
Silicon	Si	Total	1.68		
Silver	Ag	Total	< 0.001		
Sodium	Na	Total	1.75		
Strontium	Sr	Total	0.16		
Sulfur	S	Total	17.3		
Tin	Sn	Total	< 0.01		
Titanium	Ti	Total	0.001		
Thorium	Th	Total	< 0.01		
Uranium	U	Total	< 0.07		
Vanadium	V	Total	< 0.002		
Zinc	Zn	Total	0.019		
Zirconium	Zr	Total	< 0.001		

STATION NUMBER:		LES 3							
STATION DESCRIPTION:		South McQuesten River upstream of the confluence with Flat Creek							
Sampled by:		DIAND	EPS	EPS	EPS	DIAND	EPS	EPS	EPS
DATE		610920	740715	750606	750706	780714	800805	800806	800807
DATE		61/9/20	74/7/15	75/6/6	75/7/6	78/7/14	80/8/5	80/8/6	80/8/7
FLOW	L/s								
TEMP	(oC)		17.0	9.0	18.2	14.0			
PH	insitu		8.1	8.1	8.1	7.7	8.1	8	8.2
	lab				8.0		7.7	7.8	7.9
COND	insitu		175	95	170	260			
(umhos/cm)	lab						245	248	250
DISSOLVED	OXYGEN		10.70	9.50	7.95	7.34	10.00	9.78	9.85
COLOUR	(FTU)		10		26		20	15	15
TURBIDITY	(FTU)		0.5		0.01		1.9	1.9	1.5
T. Alkalinity	CaCO ₃	64.6			78.2		83.5	85.3	87.6
T. Hardness	CaCO ₃		110		110		128	124	127
Sulphate							40.8	38.2	38.8
Cl							0.88	0.88	0.80
PO ₄							0.0087	0.0088	0.0090
NO ₂							<0.0050	<0.0050	<0.0050
NO ₃							0.0192	0.0187	0.0152
NH ₃							0.0075	0.0069	0.0064
NFR			7		23		<5	<5	<5
Ag	Ext	0.0021			<0.03				
As	Ext						0.0010	0.0006	0.0009
B	Ext								
Ba	Ext						0.046	0.0447	0.0465
Be	Ext								
Ca	Ext	6.1	27.0		30.0		35.5	34.5	35.3
Cd	Ext		<0.01		<0.01		<0.01	<0.01	<0.01
Co	Ext						<0.015	<0.015	<0.015
Cr	Ext						<0.015	<0.015	<0.015
Cu	Ext		<0.01		<0.01		<0.01	<0.01	<0.01
Fe	Ext				0.34		0.157	0.132	0.136
Mg	Ext		9.1		8.1		9.61	9.27	9.52
Mn	Ext		0.0500				0.0457	0.0370	0.0366
Mo	Ext		<0.1		<0.3		<0.15	<0.15	<0.15
Na	Ext						1.04	0.966	0.991
Ni	Ext				<0.1		<0.08	<0.08	<0.08
P	Ext								
Pb	Ext	0.002	<0.02		0.03		<0.08	<0.08	<0.08
Sb	Ext				<0.3		<0.0005	<0.0005	<0.0005
Se	Ext						<0.0005	<0.0005	<0.0005
Si	Ext						1.44	1.71	1.63
Sn	Ext						<0.2	<0.2	<0.2
Sr	Ext						0.124	0.123	0.129
Ti	Ext						<0.0085	<0.0085	<0.0085
V	Ext						<0.05	<0.05	<0.05
Zn	Ext		0.02		0.07		0.051	0.04	0.065

STATION NUMBER:		LES 3							
STATION DESCRIPTION:		South McQuesten River upstream of the confluence with Flat Creek							
Sampled by:		DIAND	EPS	EPS	EPS	DIAND	EPS	EPS	EPS
DATE		810920	740715	750606	750706	780714	800805	800806	800807
DATE		61/9/20	74/7/15	75/6/6	75/7/6	78/7/14	80/8/5	80/8/6	80/8/7
Ag	Diss								
As	Diss								
B	Diss								
Ba	Diss								
Be	Diss								
Ca	Diss								
Cd	Diss								
Co	Diss								
Cr	Diss								
Cu	Diss								
Fe	Diss								
Mg	Diss								
Mn	Diss								
Mo	Diss								
Na	Diss								
Ni	Diss								
P	Diss								
Pb	Diss								
Sb	Diss								
Se	Diss								
Si	Diss								
Sn	Diss								
Sr	Diss								
Ti	Diss								
V	Diss								
Zn	Diss								
Ag	Total								
Cd	Total								
Cu	Total								
Fe	Total								
Pb	Total								
Zn	Total								
CN							<0.03	<0.03	<0.03

STATION NUMBER:		LES 3					
STATION DESCRIPTION:		South McQuesten River upstream of the confluence wi					
Sampled by:		EPS	EPS	EPS	PC-B	EPS	EPS
DATE		850709	850821	900724	900831	900919	950412
DATE		85/7/9	85/8/21	90/7/24	90/8/31	90/9/19	95/4/12
FLOW	L/s	8200.0	3000.0				
TEMP	(oC)	16.0	9.3	17.5	8.0	6.2	
PH	insitu	8.1		8.22	7.9		
	lab	8.1	7.6			8.1	7.8
COND	insitu	170	195	239	270	185	
(umhos/cm)	lab	255	285	306		305	491
DISSOLVED	OXYGEN	8.50	22.00	n/a	9.60	10.7	
COLOUR	(FTU)	20	10	10		20	
TURBIDITY	(FTU)	0.95	0.19	0.3		0.3	
T. Alkalinity	CaCO ₃	89.7	100.6	109		95	166
T. Hardness	CaCO ₃	140	156	152		144	244
Sulphate		37	43	53.6		55.7	85.2
Cl		0.70	0.70	0.7		0.6	2.47
PO ₄		0.0080	0.0210	0.002		0.004	
NO ₂		<0.005	<0.005	<0.002		<0.002	<0.005
NO ₃		0.014	0.026	0.01		0.037	0.098
NH ₃		0.011	0.026	0.002		0.007	0.005
NFR		<5	<5	<10	<5	<9	<10
Ag	Ext	<0.0005	<0.0005	0.0005		0.0012	
As	Ext	<0.05	<0.05	<0.05		<0.05	
B	Ext	0.011	0.013	<0.01		<0.01	
Ba	Ext	0.050	0.054	0.062		0.049	
Be	Ext	<0.001	<0.001	<0.001		<0.001	
Ca	Ext	38.9	43.0	40.5		38.7	
Cd	Ext	0.0019	<0.0005	0.0003		0.0003	
Co	Ext	<0.005	<0.005	<0.005		<0.005	
Cr	Ext	<0.005	<0.005	<0.005		<0.005	
Cu	Ext	0.003	<0.006	0.0011		0.0018	
Fe	Ext	0.211	0.126	0.151		0.131	
Mg	Ext	10.2	11.6	12.2		11.4	
Mn	Ext	0.0500	0.0410	0.05		0.043	
Mo	Ext	<0.007	<0.005	<0.01		<0.01	
Na	Ext	1.1	1.3	1.6		1.2	
Ni	Ext	<0.02	<0.02	<0.02		<0.02	
P	Ext	<0.05	0.06	<0.1		<0.1	
Pb	Ext	0.026	<0.001	0.0027		0.0041	
Sb	Ext	<0.05	<0.05	<0.05		<0.05	
Se	Ext	<0.05	<0.05	<0.05		<0.05	
Si	Ext	1.2	1.6	1.81		2.04	
Sn	Ext	<0.01	<0.01	<0.05		<0.05	
Sr	Ext	0.146	0.157	0.167		0.150	
Ti	Ext	<0.002	<0.002	<0.002		<0.002	
V	Ext	<0.005	<0.005	<0.01		<0.01	
Zn	Ext	0.019	0.028	0.015		0.050	

STATION NUMBER:		LES 3					
STATION DESCRIPTION:		South McQuesten River upstream of the confluence wi					
Sampled by:		EPS	EPS	EPS	PC-B	EPS	EPS
DATE		850709	850821	900724	900831	900919	950412
DATE		85/7/9	85/8/21	90/7/24	90/8/31	90/9/19	95/4/12
Ag	Diss						<0.01
As	Diss						<0.05
B	Diss						<0.01
Ba	Diss						0.094
Be	Diss						<0.001
Ca	Diss						64.4
Cd	Diss						0.0004
Co	Diss						<0.005
Cr	Diss						<0.005
Cu	Diss						0.0009
Fe	Diss						0.065
Mg	Diss						20.1
Mn	Diss						0.08
Mo	Diss						<0.01
Na	Diss						3
Ni	Diss						<0.02
P	Diss						<0.1
Pb	Diss						<0.05
Sb	Diss						<0.05
Se	Diss						<0.05
Si	Diss						3.52
Sn	Diss						<0.05
Sr	Diss						0.224
Ti	Diss						0.002
V	Diss						<0.01
Zn	Diss						0.031
Ag	Total			0.0006	<0.005	0.0010	<0.01
Cd	Total						0.0003
Cu	Total			0.0019	<0.002	0.0016	0.001
Fe	Total			0.18	0.154	0.164	0.245
Pb	Total			0.0025	<0.005	0.0038	<0.06
Zn	Total			0.013	0.019	0.063	0.036
CN							

STATION NUMBER:		LES 5			
STATION DESCRIPTION:		South McQuesten River 9 km downstream of Flat Creek			
	Sampled by	LES	LES	LES	LES
Date		94-7-29	94-9-6	94-10-26	95-7-12
Flow	L/s	3683.2	2208.1		4027.1
Water	Temp oC	16.8	9.3	0.2	17.7
Dissolved	oxygen mg/l	10.4	13.9	10.7	8.6
Hydroxide	CaCO ₃			< 5.	< 1.
Carbonate	CaCO ₃			< 5.	< 1.
Bicarb.	CaCO ₃			135	110
Total Alk.	CaCO ₃	114	120	135	110
Colour	TCU	5			
Conduct.	uS/cm				
	In-situ	292	331	318	295
	lab	320			
pH	In-situ	8.23	8.18	7.40	8.34
pH	lab	8.1	8.1	8.0	8.2
TURBIDITY	(FTU)	< 1.			
NFR		< 5.	<5	< 5.	< 5.
TDS		214	295	248	243
Chloride	Cl	< 1.			
Fluoride	F	< 1.			
Nitrate	NO ₃ -N	< 0.5			
Nitrite	NO ₂ -N	< 1.			
Sulfate	SO ₄	53.8			60.4
Ammonia	NH ₃ -N	< 0.05			
Total CN		-			

STATION NUMBER: LES 5			STATION DESCRIPTION: South McQuesten River 9 km downstream of Flat Creek			
Sampled by			LES	LES	LES	LES
Date			94-7-29	94-9-6	94-10-26	95-7-12
Aluminum	Al	Dissolved	0.04	0.02		0.04
Antimony	Sb	Dissolved	< 0.02	<0.02		< 0.02
Arsenic	As	Dissolved	< 0.02	<0.02		< 0.02
Barium	Ba	Dissolved	0.0636	0.0643		0.0597
Beryllium	Be	Dissolved	< 0.0002	<0.0002		< 0.0002
Bismuth	Bi	Dissolved	< 0.02	<0.02		< 0.02
Cadmium	Cd	Dissolved	0.0005	0.0005		0.0005
Cadmium	Cd	Dissolved	< 0.0005	<0.0005		< 0.0005
Calcium	Ca	Dissolved	47	49.9		44.4
Chromium	Cr	Dissolved	< 0.001	<0.001		< 0.001
Cobalt	Co	Dissolved	< 0.001	<0.001		< 0.001
Copper	Cu	Dissolved	0.002	0.002		0.011
Copper	Cu	Dissolved	< 0.002	<0.002		0.011
Iron	Fe	Dissolved	0.078	0.084		0.025
Lead	Pb	Dissolved	0.001	0.01		0.01
Lead	Pb	Dissolved	< 0.001	<0.01		< 0.01
Lithium	Li	Dissolved	0.003	<0.002		< 0.002
Magnesium	Mg	Dissolved	13	14.8		13.3
Manganese	Mn	Dissolved	0.033			0.041
Molybdenum	Mo	Dissolved	< 0.005	<0.005		< 0.005
Nickel	Ni	Dissolved	0.003	0.003		0.003
Phosphorus	P	Dissolved	< 0.06	<0.06		< 0.06
Potassium	K	Dissolved	0.3	0.4		0.4
Selenium	Se	Dissolved	< 0.001	<0.02		< 0.02
Silicon	Si	Dissolved	1.71	1.9		1.8
Silver	Ag	Dissolved	< 0.0001	<0.001		< 0.001
Sodium	Na	Dissolved	1.63	2.03		1.82
Strontium	Sr	Dissolved	0.18	0.18		0.18
Sulfur	S	Dissolved	18	21.3		18.3
Tin	Sn	Dissolved	< 0.01	<0.01		< 0.01
Titanium	Ti	Dissolved	< 0.001	<0.001		< 0.001
Thorium	Th	Dissolved	< 0.01	<0.01		< 0.01
Uranium	U	Dissolved	< 0.07	<0.07		< 0.07
Vanadium	V	Dissolved	< 0.002	<0.002		< 0.002
Zinc	Zn	Dissolved	0.01	0.008		0.006
Zirconium	Zr	Dissolved	< 0.001	<0.001		< 0.001

STATION NUMBER: LES 5			STATION DESCRIPTION: South McQuesten River 9 km downstream of Flat Creek			
Sampled by			LES	LES	LES	LES
Date			94-7-29	94-9-6	94-10-26	95-7-12
Aluminum	Al	Total	0.05	0.03	0.02	0.04
Antimony	Sb	Total	< 0.02	<0.02	< 0.02	< 0.02
Arsenic	As	Total	< 0.02	<0.02	< 0.02	< 0.02
Barium	Ba	Total	0.0638	0.0671	0.0679	0.0601
Beryllium	Be	Total	< 0.0002	<0.0002	0.0002	< 0.0002
Bismuth	Bi	Total	< 0.02	<0.02	< 0.02	< 0.02
Cadmium	Cd	Total	0.0005	0.0005	0.0005	0.0005
Cadmium	Cd	Total	< 0.0005	<0.0005	< 0.0005	< 0.0005
Calcium	Ca	Total	47.7	49.9	52.8	44.7
Chromium	Cr	Total	< 0.001	<0.001	< 0.001	< 0.001
Cobalt	Co	Total	< 0.001	<0.001	< 0.001	< 0.001
Copper	Cu	Total	0.002	0.003	0.005	0.011
Copper	Cu	Total	< 0.002	0.003	0.005	0.011
Iron	Fe	Total	0.16	0.237	0.263	0.074
Lead	Pb	Total	0.001	0.01	0.01	0.01
Lead	Pb	Total	< 0.001	<0.01	< 0.01	< 0.01
Lithium	Li	Total	0.004	<0.002	0.003	< 0.002
Magnesium	Mg	Total	13.6	14.8	15	13.5
Manganese	Mn	Total	0.04		0.072	0.041
Molybdenum	Mo	Total	< 0.005	<0.005	< 0.005	< 0.005
Nickel	Ni	Total	0.003	0.003	0.004	0.003
Phosphorus	P	Total	< 0.06	<0.06	< 0.06	< 0.06
Potassium	K	Total	0.4	0.5	0.4	0.5
Selenium	Se	Total	< 0.001	<0.02	< 0.02	< 0.02
Silicon	Si	Total	1.75	1.98	2.4	1.82
Silver	Ag	Total	< 0.0001	<0.001	< 0.001	< 0.001
Sodium	Na	Total	1.64	2.04	2.09	1.87
Strontium	Sr	Total	0.18	0.18	0.19	0.18
Sulfur	S	Total	18.5	21.9	19.7	18.4
Tin	Sn	Total	< 0.01	<0.01	< 0.01	< 0.01
Titanium	Ti	Total	< 0.001	<0.001	0.002	< 0.001
Thorium	Th	Total	< 0.01	<0.01	< 0.01	< 0.01
Uranium	U	Total	< 0.07	<0.07	< 0.07	< 0.07
Vanadium	V	Total	0.004	<0.002	0.004	< 0.002
Zinc	Zn	Total	0.01	0.013	0.022	0.01
Zirconium	Zr	Total	< 0.001	<0.001	< 0.001	< 0.001

STATION NUMBER:		LES 5			
STATION DESCRIPTION:		South McQuesten River 9 km downstream of Flat Creek			
SAMPLER		EPS	EPS	EPS	EPS
DATE		85/7/9	85/8/21	90/7/24	90/9/19
FLOW	L/s	8100			
TEMP	(°C)	15.0	10.1	14.5	6.0
pH	insitu	7.95	8.00	8.21	
	lab	8.1	7.9		8.1
COND.	insitu	190	210	242	180
	umhos/cm lab	270	310	321	31
DISSOLVED	OXYGEN	9.3	10.5	9.3	10.6
COLOUR	(FTU)	20	10	10	20
TURBIDITY	(FTU)	0.51	0.23	0.2	0.3
T. Alkalinity	CaCO ₃	93.0	106.0	117	103
T. Hardness	CaCO ₃	148	170	158	148
Sulphate		33	47	54.7	54.7
Cl		0.8	0.7	0.7	0.6
PO ₄		0.008	0.004	0.002	0.004
NO ₂		<0.005	<0.005	<0.002	<0.002
NO ₃		0.015	0.009	0.011	0.036
NH ₃		0.012	0.009	0.01	0.008
NFR		<5	<7	<10	<9
Ag	Ext	<0.0005	<0.0005	0.0006	0.0013
As	Ext	<0.05	<0.05	<0.05	<0.05
B	Ext	0.016	0.012	<0.01	<0.01
Ba	Ext	0.052	0.058	0.064	0.049
Be	Ext	<0.001	<0.001	<0.001	<0.001
Ca	Ext	41.3	47.0	42.4	39.8
Cd	Ext	0.0019	0.0005	0.0003	0.0003
Cd	Ext	0.0019	<0.0005	0.0003	0.0003
Co	Ext	<0.005	<0.005	<0.005	<0.005
Cr	Ext	<0.005	<0.005	<0.005	0.005
Cu	Ext	0.002	0.001	0.0007	0.0013
Fe	Ext	0.202	0.162	0.163	0.176
Mg	Ext	10.9	12.6	12.6	11.6
Mn	Ext	0.066	0.048	0.044	0.046
Mo	Ext	<0.009	<0.005	<0.01	<0.01
Na	Ext	1.3	1.7	1.8	1.3
Ni	Ext	<0.02	<0.02	<0.02	<0.02
P	Ext	<0.05	<0.05	<0.1	<0.1
Pb	Ext	0.021	0.001	0.0019	0.0044
Sb	Ext	<0.05	<0.05	<0.05	<0.05
Sb	Ext	<0.05	<0.05	<0.05	<0.05
Se	Ext	<0.05	<0.05	<0.05	<0.05
Si	Ext	1.4	1.7	1.89	2.18
Sn	Ext	<0.01	<0.02	<0.05	<0.05
Sr	Ext	0.152	0.168	0.173	0.155
Ti	Ext	<0.002	<0.002	<0.002	<0.002
V	Ext	<0.005	<0.005	<0.01	<0.01
Zn	Ext	0.022	0.027	0.011	0.042
CN					

STATION: UN ADIT (S2)

SAMPLED BY: UKHM

STATION	DATE	TEMP	FLOW	pH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
			L/s				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2DD-S02	90/3/26											
2DD-S02	90/4/27											
2DD-S02	90/5/29	8.0	0.01	7.7	325	16	0.01	0.01	0.22	0.13	0.05	0.10
2DD-S02	90/6/28	4.0	0.10	7.9	385	12	0.01	0.01	0.15	0.25	0.05	
2DD-S02	90/7/29	7.0	0.17	7.4	460	12	0.01	0.01	0.14	0.13	0.09	
2DD-S02	90/8/27	7.0	0.17	7.8	100	28	0.01	0.02	0.06	0.15	0.01	0.10
2DD-S02	90/9/27	1.0	0.13	7.6	450	12	0.01	0.01	ND	0.12	0.43	
2DD-S02	90/10/29	0.0	0.13	7.6	285	28	0.02	0.02	1.90	0.47	0.04	1.10
2DD-S02	90/11/30											
2DD-S02	90/12/20											
2DD-S02	91/1/29											
2DD-S02	91/2/26											
2DD-S02	91/3/28											
2DD-S02	91/4/26											
2DD-S02	91/5/20											
2DD-S02	91/6/1	3.0	0.03	8.4	260	4	0.03		1.10	0.07		0.07
2DD-S02	91/7/1	4.0	0.88	7.7	280	8	0.22		3.90	0.43		
2DD-S02	91/8/1	4.0	0.01	7.7	260	4	0.10		0.24	0.50		
2DD-S02	91/9/1	1.0	0.02	7.5	260	4	0.06	0.06	0.15	0.38		
2DD-S02	91/10/1											
2DD-S02	91/11/1	0.0				0			0.00	0.00		
2DD-S02	91/12/1	0.0				0			0.00	0.00		
2DD-S02	92/1/1											
2DD-S02	92/2/1											
2DD-S02	92/3/1											
2DD-S02	92/4/1											
2DD-S02	92/5/1											
2DD-S02	92/6/1	1.0	0.10	7.8	290	8	0.01	0.01	0.03	0.07	0.05	0.45
2DD-S02	92/7/1	1.5	0.20	7.7	360	4	0.01		0.01	0.15		0.27
2DD-S02	92/8/1	1.0	0.20	7.6	360	8		0.01	0.02	0.02		0.23
2DD-S02	92/9/1											
2DD-S02	92/10/1											
2DD-S02	92/11/1											

STATION: UN ADIT (S2)												
SAMPLED BY: UKHM												
STATION	DATE	TEMP	FLOW	pH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
			L/s				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2DD-S02	92/12/1											
2DD-S02	93/1/1											
2DD-S02	93/2/1											
2DD-S02	93/3/1											
2DD-S02	93/4/1											
2DD-S02	93/5/1											
2DD-S02	93/6/1	2.0	0.80	7.1	400		0.01	0.03	0.11	0.20	0.01	0.03
2DD-S02	93/7/1	2.3	0.50	7.8	562	8			0.14	0.30	0.01	0.02
2DD-S02	93/8/1	2.0	0.50	7.8	470	8	0.01	0.01	0.01	0.02	0.01	0.31
2DD-S02	93/9/1	2.0	0.50	7.7	350	12	0.02	0.01	1.38	0.81	0.01	0.31
2DD-S02	93/10/1											
2DD-S02	93/11/1											
2DD-S02	93/12/1											
2DD-S02	94/1/1											
2DD-S02	94/2/1											
2DD-S02	94/3/1											
2DD-S02	94/4/24											
2DD-S02	94/5/10											
2DD-S02	94/5/31	1.5	0.2	6.9	240	4			0.48	0.19	0.18	0.05
2DD-S02	94/6/28	1.8	0.2	8.4	410	4		0.03	0.05	0.00	0.01	0.05
2DD-S02	94/7/29	2.8	0.2	7.7	510	4		0.01	0.46	0.44	0.08	0.22
2DD-S02	94/10/31											
2DD-S02	11/29/94											
2DD-S02	1/5/95											
2DD-S02	2/6/95											
2DD-S02	3/29/95											
2DD-S02	4/27/95											
2DD-S02	5/3/95											
2DD-S02	6/6/95	3.0	0.1	7.6	360	24	0.04	0.02	0.42	0.26	0.01	0.17
2DD-S02	8/11/95	0.0	0.3	7.4	280	4	0.03	0.03	0.13	0.51	0.04	0.24
2DD-S02	9/3/95	2.0	0.8	7.6	260	0	0.05	0.00	0.10	0.32	0.02	0.12

STATION: BIRMINGHAM ADIT (S3)

SAMPLED BY: UKHM

STATION	DATE	TEMP	FLOW	pH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
			L/s				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2DD-S03	90/3/26											
2DD-S03	90/4/27											
2DD-S03	90/5/29	2.0	0.60	6.5	136	12	0.49	0.05	0.30	3.60	0.06	11.80
2DD-S03	90/6/28	5.0	0.80	7.1	220	16	0.28	0.01	0.14	2.00	0.12	6.30
2DD-S03	90/7/29	7.0	0.50	7.9	260	16	0.18	0.01	0.06	1.50	0.06	5.10
2DD-S03	90/8/27	5.0	0.67	7.2	220	24	0.16	0.02	0.06	0.13	0.02	5.10
2DD-S03	90/9/27	2.0	0.67	6.8	280	12	0.11	0.08	0.08	1.30	0.51	4.90
2DD-S03	90/10/29	0.0	1.00	6.9	180	20	0.35	0.01	0.13	2.60	0.48	8.10
2DD-S03	90/11/30	0.0	0.50	7.0	160	24	0.24	0.01	0.12	2.40	0.09	6.80
2DD-S03	90/12/20											
2DD-S03	91/1/29											
2DD-S03	91/2/26											
2DD-S03	91/3/28											
2DD-S03	91/4/26											
2DD-S03	91/5/20	6.5	10.00	6.3	70	4	0.52	0.06	0.08	0.01	0.01	5.39
2DD-S03	91/6/1	4.0	1.00	7.2	150	4	0.25		0.07	2.66		3.51
2DD-S03	91/7/1	5.0	1.00	6.8	180	12	1.40		2.10	3.99	0.07	0.06
2DD-S03	91/8/1	2.0	1.00	6.9	150	12	0.18	0.04	0.13	3.40		4.01
2DD-S03	91/9/1	2.0	1.00	6.5	160	12	0.04		0.44	1.37		1.26
2DD-S03	91/10/1	1.0	1.00	6.5	160	12	0.16	0.02	0.93	0.31	0.09	5.18
2DD-S03	91/11/1	0.0	1.00	7.9	180	8	0.11	0.01	1.06	0.19	0.01	4.00
2DD-S03	91/12/1	0.0	1.50	7.2	170	8	0.08	0.01	0.26	1.14		2.72
2DD-S03	92/1/1	0.0	1.50	7.3	180	8	0.08	0.01	0.28	1.31		3.01
2DD-S03	92/2/1	0.0	1.50	7.1	180	8	0.01	0.01	0.83	1.23	0.01	2.01
2DD-S03	92/3/1	0.0	1.50	7.6	170	8		0.01	1.00	0.02	0.01	3.10
2DD-S03	92/4/1	0.0	1.50	7.5	171	8		0.01	1.09	0.03	0.01	3.41
2DD-S03	92/5/1											
2DD-S03	92/6/1	1.0	2.50	6.7	130	12	0.15	0.03	0.16	2.06	0.02	6.27
2DD-S03	92/7/1	2.0	2.50	6.7	180	8	0.31	0.02	0.02	3.18	0.04	6.37
2DD-S03	92/8/1	2.0	3.00	6.8	180	4	0.23	0.02	0.02	2.32	0.01	7.63
2DD-S03	92/9/1	2.0	2.00	6.7	180	4	0.40	0.04	0.76	2.75	0.04	1.55
2DD-S03	92/10/1	1.5	2.00	7.2	315	8	0.27	0.02	0.27	0.10	0.06	0.22
2DD-S03	92/11/1	1.0	2.00	7.0	220	8	0.10	0.01	0.06	0.96	0.09	0.44

STATION: BIRMINGHAM ADIT (S3)

SAMPLED BY: UKHM

STATION	DATE	TEMP	FLOW	pH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
			L/s				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2DD-S03	92/12/1	0.1	1.50	7.1	180	8	0.02	0.03	0.93	0.39	0.03	0.17
2DD-S03	93/1/1	0.1	1.00	6.8	160	12	0.03	0.02	1.33	0.13	0.03	1.20
2DD-S03	93/2/1	1.0	0.50	7.3	180	12	0.09	0.03	3.35	0.05	0.03	0.69
2DD-S03	93/3/1	0.1	0.50	7.1	210	12	0.11	0.02	1.04	0.03	0.03	2.79
2DD-S03	93/4/1	1.0	1.00	7.2	260	12	0.19	0.01	1.36	0.04	0.02	2.01
2DD-S03	93/5/1	1.0	2.50	6.4	170		0.41	0.02	0.22	1.56	0.18	6.19
2DD-S03	93/6/1	1.0	2.50	6.2	180		0.41	0.02	0.14	2.63	0.02	4.13
2DD-S03	93/7/1	3.1	3.00	7.1	277	4	0.46	0.02	0.08	2.98	0.01	4.49
2DD-S03	93/8/1	2.9	3.00	7.0	210	8	0.17	0.01	0.01	0.17	0.02	4.77
2DD-S03	93/9/1	3.0	3.00	7.6	200	4	0.10	0.01	0.38	1.32	0.02	4.15
2DD-S03	93/10/1	1.5	2.50	7.3	180		0.07	0.01	0.21	0.32	0.03	4.29
2DD-S03	93/11/1	1.0	2.00	7.7	180	4	0.07	0.02	0.17	1.02	0.03	4.43
2DD-S03	93/12/1	1.0	2.00	7.7	200	4	0.08	0.01	0.09	0.93	0.03	4.21
2DD-S03	94/1/1	1.0	2.00	7.7	190	4	0.08	0.01	0.28	0.95		3.32
2DD-S03	94/2/1	1.0	2.00	7.6	180	4	0.06	0.01	0.26	0.93	0.02	3.37
2DD-S03	94/3/1	1.0	0.50	7.6	240	4	0.05	0.01	0.38	1.11	0.03	3.27
2DD-S03	94/4/24	2.0	1.0	7.6	250	8	0.06	0.01	0.38	1.12	0.02	2.46
2DD-S03	94/5/10											
2DD-S03	94/5/31	1.5	12.0	6.5	120	4	0.44	0.03	0.38	1.81	0.15	7.39
2DD-S03	94/6/28	3.3	1.5	7.5	230	4	0.21	0.01	0.14	1.92	0.02	7.38
2DD-S03	94/7/29	2.3	0.4	7.2	292	4	0.22	0.01	0.40	2.65	0.02	6.45
2DD-S03	94/10/31	0.7	0.5	7.3	230	0	0.35	0	0.09	1.39	0.12	5.13
2DD-S03	94/11/29	0.7	0.5	6.7	260	0	0.16	0.02	0.42	1.19	0.1	4.26
2DD-S03	95/1/5	0.5	0.5	4.4	310	0	0.04	0.00	0.58	1.30	0.10	3.58
2DD-S03	95/2/6	2.0	0.5	7.2	330	0	0.08	0.00	0.35	0.86	0.00	3.06
2DD-S03	95/3/29	1.0	0.2	7.1	280	4	0.19	0.04	4.03	2.11	0.00	3.63
2DD-S03	95/4/27	1.0	0.5	7.8	290	8	0.02	0.01	0.76	0.79	0.00	2.74
2DD-S03	95/5/3	1.0	1.5	7.1	255	8	0.99	0.00	0.78	3.17	0.00	11.69
2DD-S03	95/6/6	3.0	0.7	7.0	230	24	0.41	0.02	0.21	2.62	0.00	7.13
2DD-S03	95/8/11	2.0	2.0	6.9	190	44	0.22	0.02	0.18	1.57	0.02	5.35
2DD-S03	95/9/3	1.0	0.2	7.1	170	0	0.22	0.00	0.22	1.35	0.01	4.99

STATION: NO CASH 500 ADIT (S4)

SAMPLED BY: UKHM

STATION	DATE	TEMP	FLOW	pH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
			L/s				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2DD-S04	90/3/26	1.0	0.01	7.8	900	28	0.01	0.03		0.35	0.08	0.01
2DD-S04	90/4/27	3.0		7.5	580	32	0.01	0.04	1.06	ND		
2DD-S04	90/5/29	2.0	0.01	7.0	790	40	0.96	0.19	3.72	17.20	0.20	31.60
2DD-S04	90/6/28	2.0	1.67	7.0	850	12	0.39	0.17	4.80	28.40	0.20	33.60
2DD-S04	90/7/29	6.0	2.67	7.1	950	24	0.20	0.10	4.40	21.20	0.13	20.00
2DD-S04	90/8/27	3.0	2.67	7.2	800	56	0.23	0.07	4.80	22.40	0.10	21.00
2DD-S04	90/9/27	1.0	6.67	6.6	760	48	0.56	0.36	16.80	30.00	0.51	18.40
2DD-S04	90/10/29	0.0		6.8	775	32	0.68	0.20	18.70	28.00	0.51	20.20
2DD-S04	90/11/30	0.0	0.50	6.9	740	16	0.80	0.16	18.00	29.00	0.98	19.40
2DD-S04	90/12/20	0.0	0.50	6.8	665	12	0.67	0.08	14.70	26.00	1.40	18.10
2DD-S04	91/1/29	20.0		7.3	200	0	0.03	0.17		3.02		0.01
2DD-S04	91/2/26	10.0		7.8	800	16	0.09	0.01	ND	1.22	0.02	0.42
2DD-S04	91/3/28	0.0	7.96	7.9	480	4	0.02	0.01	0.75	0.98	0.01	0.08
2DD-S04	91/4/26	8.0	3.26	7.8	480	8	0.03	0.05	0.92	0.04	0.01	0.08
2DD-S04	91/5/20	2.3	3.80	6.8	690	12	0.41	0.13	2.22	17.27	0.09	45.69
2DD-S04	91/6/1	3.0	3.80	7.5	740	24	0.13	0.11	13.83	19.82		55.08
2DD-S04	91/7/1	4.0	4.00	7.4	740	24	0.85	0.82	9.20	18.57		30.24
2DD-S04	91/8/1	2.0	4.00	7.1	760	24	0.10	0.19	1.30	3.20	0.01	15.34
2DD-S04	91/9/1	2.0	4.00	6.8	520	28	0.02	0.06	3.90	11.34	0.02	17.53
2DD-S04	91/10/1	1.0	4.00	7.3	540	40	0.17	0.09	20.69	8.06	0.10	14.75
2DD-S04	91/11/1	0.0	3.50	7.8	580	28	0.12	0.05	9.24	17.00	0.11	16.57
2DD-S04	91/12/1	0.0	3.50	7.8	720	24	0.10	0.03	6.13	13.64	0.04	13.98
2DD-S04	92/1/1	0.0	3.50	7.8	740	20	0.10	0.02	6.45	13.68	0.04	14.82
2DD-S04	92/2/1	1.0	3.50	7.5	660	16		0.01	1.56	8.24	0.05	8.28
2DD-S04	92/3/1	0.0	3.00	8.0	700	8		0.01		5.47	0.02	6.86
2DD-S04	92/4/1	1.0	3.00	7.8	790	8		0.01	1.53	5.32	0.01	6.75
2DD-S04	92/5/1	1.0	3.50	6.3	760	12	0.59	0.32	9.04	21.59	0.04	7.12
2DD-S04	92/6/1	1.0	4.50	7.0	580	20	0.37	0.10	4.18	17.69	0.12	9.30
2DD-S04	92/7/1	2.0	4.50	7.0	610	12	0.14	0.05	0.41	26.54	0.03	10.22
2DD-S04	92/8/1	2.0	4.50	6.9	620	16	0.14	0.05	1.71	23.07	0.06	12.60
2DD-S04	92/9/1	2.0	4.50	7.5	660	16	0.45	0.09	5.24	22.75	0.15	10.01
2DD-S04	92/10/1	0.1	4.50	8.0	1211	16	0.33	0.06	6.45	20.75	0.08	14.60
2DD-S04	92/11/1	0.1	4.50	7.8	900	16	0.11	0.03	4.45	13.41	0.10	17.44

STATION: NO CASH 500 ADIT (S4)

SAMPLED BY: UKHM

STATION	DATE	TEMP	FLOW	pH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
			L/s				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2DD-S04	92/12/1	0.1	4.00	7.9	810	16	0.01	0.05	6.14	8.20	0.05	13.25
2DD-S04	93/1/1	0.1	4.00	8.0	765	10	0.03	0.04	5.78	9.44	0.03	3.99
2DD-S04	93/2/1	1.0	4.00	8.1	840	16	0.05	0.04	4.80	7.16	0.03	2.30
2DD-S04	93/3/1	1.0	4.00	8.0	840	16	0.04	0.03	1.66	0.78	0.04	4.22
2DD-S04	93/4/1	1.0	4.00	7.5	840	20	0.07	0.02	1.66	0.78	0.03	4.33
2DD-S04	93/5/1	1.0	4.50	6.6	620		0.39	0.07	6.55	20.25	0.10	12.05
2DD-S04	93/6/1	1.0	4.50	7.1	580		0.21	0.09	5.28	17.50	0.09	16.01
2DD-S04	93/7/1	3.4	9.50	7.0	987	16	0.24	0.04	2.10	17.98	0.04	17.07
2DD-S04	93/8/1	3.2	9.00	7.1	840	20	0.16	0.04	1.72	17.59	0.04	13.23
2DD-S04	93/9/1	2.3	9.00	7.4	760	8	0.12	0.02	1.98	14.37	0.04	11.15
2DD-S04	93/10/1	2.0	8.00	7.6	760	8	0.10	0.02	2.49	13.32	0.06	12.25
2DD-S04	93/11/1	2.0	6.00	7.6	750	12	0.09	0.03	2.69	12.55	0.06	11.25
2DD-S04	93/12/1	2.0	6.00	7.6	730	12	0.10	0.02	1.95	11.06	0.05	11.20
2DD-S04	94/1/1	2.0	5.00	8.1	760	12	0.03	0.02	1.83	8.91	0.06	9.86
2DD-S04	94/2/1	0.5	5.00	8.2	940	12	0.03	0.01	1.81	8.79	0.06	10.09
2DD-S04	94/3/1	2.0	5.00	8.3	860	12	0.02	0.01	1.79	7.62	0.06	7.31
2DD-S04	94/4/24	4.0	5.00	7.4	860	12	0.03	0.02	1.87	7.54	0.03	5.32
2DD-S04	94/5/10											
2DD-S04	94/5/31	2.1	6.00	6.9	870	12	0.23	0.04	3.47	17.03	0.10	22.76
2DD-S04	94/6/28	3.6	6.50	4.9	690	0	0.13	0.09	3.08	15.64	0.06	11.54
2DD-S04	94/7/29	2.4	4.20	7.7	1054	12	0.20	0.03	5.69	35.00	0.08	18.06
2DD-S04	94/10/31	0.8	4.00	7.4	790	20	0.44	0.05	5.25	16.00	0.34	11.80
2DD-S04	94/11/29	0.8	4.00	6.7	990	0	0.13	0.04	4.01	12.00	0.24	9.28
2DD-S04	95/1/5	1.0	3.00	7.5	1120	0	0.06	0.02	2.70	10.35	0.14	6.39
2DD-S04	95/2/6	1.0	3.00	7.3	1220	6.8	0.05	0.03	5.24	8.66	0.03	6.04
2DD-S04	95/3/29	0.5	3.00	7.3	1075	12	0.02	0.02	2.35	6.41	0.00	4.39
2DD-S04	95/4/27	1.0	2.50	7.6	1020	36	0.00	0.02	2.98	4.83	0.02	4.10
2DD-S04	95/5/3	1.0	3.00	6.3	780	68	0.89	0.38	61.00	41.00	0.00	61.00
2DD-S04	95/6/6	2.0	4.00	7.0	800	40	0.39	0.06	3.80	22.00	0.20	26.00
2DD-S04	95/8/11	2.0	5.00	7.3	660	16	0.29	0.11	19.00	20.00	0.05	14.00
2DD-S04	95/9/3	2.0	3.50	7.4	395	4	0.28	0.08	17.00	22.00	0.06	15.40

STATION: Galkeno 900 adit 2DD-S5 - Before Treatment

Sampled by:		DIAND	DIAND	DIAND	DIAND	DIAND	LES	LES	EPS	LES
				+UKHM	+UKHM	+UKHM				
DATE		85/7/17	86/7/6	91/5/22	92/10/28	93/7/21	94/7/27	94/7/27	95/4/11	95/7/11
FLOW	(m ³ /s)	0.0062	113.5igpm	0.005	0.009	0.012	0.005			0.07238
TEMP	(oC)	6		6.8	3.4	6.9	3.1			9.5
pH	insitu	7.4		6.6	7.6	8.1	6.91			6.85
	lab	7.2	6.9	7.3		7.59	7.5	7.4	6.94	7.4
COND	insitu	1500		1038	2260	2150	2090			1979
(umhos/cm)	lab	2200	2100	2480		2156	2200	2200	2250	
DISSOLVED OXYGEN							10.3			6.9
COLOUR	(FTU)						20	20		
TURBIDITY	(FTU)		18			8	36	36		
T. Alkalinity	CaCO ₃		148			177	176	174	184	151
T. Hardness	CaCO ₃	1390	1380			1640			1620	
Sulphate			1100			1090	1400	1400	1313	1380
Cl			1.4			0.8	<10	<10	3.23	
PO ₄										
NO ₂			<0.005			<0.002	<10	<10	<0.005	
NO ₃							<2	<2	<0.002	
NH ₃		0.108	0.134			0.133	<0.05	<0.05	0.081	
NFR		30	<5	10		30	11	10	<10	46

STATION: Galkeno 900 adit 2DD-S5 - Before Treatment

Sampled by:		DIAND	DIAND	DIAND	DIAND	DIAND	LES	LES	EPS	LES
				+UKHM	+UKHM	+UKHM				
DATE		85/7/17	86/7/6	91/5/22	92/10/28	93/7/21	94/7/27	94/7/27	95/4/11	95/7/11
Ag	Ext					<0.5				
As	Ext		0.4			<3				
B	Ext		0.033			1				
Ba	Ext		0.02			<0.05				
Be	Ext		<0.001			<0.05				
Ca	Ext		447			520				
Cd	Ext		0.022	0.03		<0.3				
Co	Ext		0.124			<0.3				
Cr	Ext		0.043			<0.3				
Cu	Ext		<0.005	<0.01		<0.3				
Fe	Ext		6.8	5.44		0.84				
Mg	Ext		43.4			30				
Mn	Ext		17.5	45.4		89.4				
Mo	Ext		0.064			<0.5				
Na	Ext		2.5			30				
Ni	Ext		0.47			<1				
P	Ext		0.22			<5				
Pb	Ext		0.05	<0.05		<3				
Sb	Ext		0.09			<3				
Se	Ext		0.23			<3				
Si	Ext		4.4			4				
Sn	Ext		0.04			<3				
Sr	Ext		0.522			0.5				
Ti	Ext		0.002			<0.1				
V	Ext		0.04			<0.5				
Zn	Ext		28.5	36		34.3				

STATION: Galkeno 900 adit 2DD-S5 - Before Treatment

Sampled by:		DIAND	DIAND	DIAND	DIAND	DIAND	LES	LES	EPS	LES
				+UKHM	+UKHM	+UKHM				
DATE		85/7/17	86/7/6	91/5/22	92/10/28	93/7/21	94/7/27	94/7/27	95/4/11	95/7/11
Ag	Total					0.0021	< 0.001	< 0.001	<0.01	< 0.001
As	Total	0.29	0.4			<3	0.06	0.06	0.07	< 0.02
B	Total	0.006	<0.001			0.9			<0.01	
Ba	Total	0.018	0.021			<0.06	0.017	0.0176	0.014	0.01
Be	Total		<0.001			<0.06	< 0.0002	< 0.0002	0.002	< 0.0002
Ca	Total	456	468			520	500	492	556	549
Cd	Total	0.012	0.024			<0.3	0.0166	0.017	0.015	0.0156
Co	Total	0.077	0.128			<0.3	0.08	0.087	0.087	0.057
Cr	Total	0.009	0.045			0.84	< 0.001	< 0.001	0.025	0.006
Cu	Total	<0.005	0.006			<0.3	< 0.002	< 0.002	0.0021	< 0.002
Fe	Total	7.12	7.07			1.3	4.88	4.87	2.59	37
Mg	Total	42.1	45.8			30	41.4	41.5	43.1	45.1
Mn	Total	13.5	20.8			89.7	64.4	63.5	66.4	64.2
Mo	Total	<0.005	0.069			<0.6	< 0.005	< 0.005	<0.01	< 0.005
Na	Total	2.2	2.7			30	2.42	2.49	1.9	2.37
Ni	Total	0.38	0.49			<1	0.448	0.463	0.84	0.364
P	Total		0.24			<6	< 0.06	< 0.06	0.3	< 0.06
Pb	Total	<0.02	0.06			<3	0.01	< 0.01	0.08	0.05
Sb	Total	<0.05	0.14			<3	< 0.02	< 0.02	0.07	< 0.02
Se	Total	<0.05	0.32			<3	< 0.02	< 0.02	0.26	< 0.02
Si	Total	3	4.4			8	4.72	4.66	4.59	5.79
Sn	Total	<0.01	0.07			<3	< 0.01	< 0.01	<0.06	< 0.01
Sr	Total	0.427	0.527			0.5	0.48	0.48	0.544	0.41
Ti	Total	<0.002	0.018			<0.1	0.015	0.015	0.007	0.003
V	Total	<0.005	0.042			<0.6	0.004	0.003	<0.01	< 0.002
Zn	Total	25.8	29.8			34.3	27.7	27.6	25.6	30.8

STATION: Galkeno 900 adit 2DD-S5 - Before Treatment

Sampled by:		DIAND	DIAND	DIAND	DIAND	DIAND	LES	LES	EPS	LES
				+UKHM	+UKHM	+UKHM				
DATE		85/7/17	86/7/6	91/5/22	92/10/28	93/7/21	94/7/27	94/7/27	95/4/11	95/7/11
Ag	Diss						< 0.001	< 0.001	<0.01	< 0.001
As	Diss						0.05	0.06	0.07	< 0.02
B	Diss								<0.01	
Ba	Diss						0.0077	0.0081	0.009	0.0068
Be	Diss						< 0.0002	< 0.0002	0.001	< 0.0002
Ca	Diss						497	491	529	447
Cd	Diss						0.0162	0.0168	0.015	0.01
Co	Diss						0.079	0.082	0.079	0.056
Cr	Diss						< 0.001	< 0.001	0.022	0.003
Cu	Diss						< 0.002	< 0.002	0.0034	< 0.002
Fe	Diss						2.78	2.75	2.2	0.689
Mg	Diss						41.1	40.6	39.8	36.3
Mn	Diss						63.8	63	56.7	49.9
Mo	Diss						< 0.005	< 0.005	<0.01	< 0.005
Na	Diss						2.4	2.43	1.6	2.32
Ni	Diss						0.449	0.46	0.77	0.344
P	Diss						< 0.06	< 0.06	0.3	< 0.06
Pb	Diss						< 0.01	< 0.01	<0.05	0.02
Sb	Diss						< 0.02	< 0.02	0.09	< 0.02
Se	Diss						< 0.02	< 0.02	0.21	< 0.02
Si	Diss						4.07	4.21	4.24	4.61
Sn	Diss						< 0.01	< 0.01	<0.05	< 0.01
Sr	Diss						0.46	0.47	0.501	0.41
Ti	Diss						< 0.001	< 0.001	<0.002	0.002
V	Diss						0.005	0.003	<0.01	< 0.002
Zn	Diss						27.6	27.4	23.8	21.4

STATION: Effluent from Galkeno 900 Treatment System					
	Sampled by:	DIAND	LES	DIAND	LES
DATE		95/5/16	95/7/11	95/8/3	95/9/5
FLOW	(m ³ /s)	0.0008	0.0034	0.0043	0.0064
TEMP	(°C)	4.0	13.5	7.0	3.9
pH	insitu	9.4	9.03	9.0	8.10
	lab	7.8	7.8	7.9	7.9
COND	insitu	2140	1881	2270	2020
(µmhos/cm)	lab	1850		2000	2000
DISSOLVED OXYGEN			7.4		
COLOUR	(FTU)				
TURBIDITY	(FTU)	23		20	
T. Alkalinity	CaCO ₃	57	88	145	134
T. Hardness	CaCO ₃	1360		1330	
Sulphate		1330	1400	1050	1260.0
Cl		<5		<5	
PO ₄					
NO ₂		<10		<10	
NO ₃		<1		<1	
NH ₃		<0.05		<0.05	
NFR		38	< 5.	49	38

STATION: Effluent from Galkeno 900 Treatment System					
Sampled by:		DIAND	LES	DIAND	LES
DATE		95/5/16	95/7/11	95/8/3	95/9/5
Ag	Total	<0.001	< 0.001	<0.001	
As	Total	<0.02	< 0.02	<0.02	
B	Total				
Ba	Total	0.011	0.012	0.0079	
Be	Total	<0.0002	< 0.0002	<0.0002	
Ca	Total	475	476	457	
Cd	Total	<0.0005	< 0.0005	0.0009	
Co	Total	0.01	0.018	0.018	
Cr	Total	0.005	0.002	0.002	
Cu	Total	0.01	0.01	<0.002	
Fe	Total	0.045	0.019	0.084	
Mg	Total	33	35.1	31.7	
Mn	Total	17.9	23.5	30	
Mo	Total	<0.005	< 0.005	<0.005	
Na	Total	2.28	2.29	1.69	
Ni	Total	0.093	0.13	0.127	
P	Total	<0.06	< 0.06	<0.05	
Pb	Total	<0.01	< 0.01	<0.01	
Sb	Total	<0.02	< 0.02	<0.02	
Se	Total	<0.02	0.02	<0.02	
Si	Total	1.6	2.34	1.98	
Sn	Total	<0.01	< 0.01	<0.01	
Sr	Total	0.42	0.47	0.33	
Ti	Total	0.003	0.002	<0.001	
V	Total	<0.002	< 0.002	<0.002	
Zn	Total	0.160	0.05	1.190	

STATION: Effluent from Galkeno 900 Treatment System					
	Sampled by:	DIAND	LES	DIAND	LES
DATE		95/5/16	95/7/11	95/8/3	95/9/5
Ag	Diss		< 0.001		< 0.001
As	Diss		< 0.02		< 0.02
B	Diss				
Ba	Diss		0.01		0.0125
Be	Diss		< 0.0002		< 0.0002
Ca	Diss		460		426
Cd	Diss		< 0.0005		0.001
Co	Diss		0.018		0.033
Cr	Diss		0.002		< 0.001
Cu	Diss		0.006		0.003
Fe	Diss		0.013		< 0.6
Mg	Diss		33.7		31.3
Mn	Diss		21.8		36.7
Mo	Diss		< 0.005		< 0.005
Na	Diss		2.3		2.36
Ni	Diss		0.128		0.195
P	Diss		< 0.06		0.24
Pb	Diss		< 0.01		< 0.005
Sb	Diss		< 0.02		< 0.02
Se	Diss		< 0.02		< 0.02
Si	Diss		2.29		2.7
Sn	Diss		< 0.01		< 0.005
Sr	Diss		0.47		0.51
Ti	Diss		0.001		0.002
V	Diss		< 0.002		0.009
Zn	Diss		0.032		0.776

STATION: 2DD-S5, GALKENO 900 ADIT														
SAMPLED BY: UKHM														
STATION	DATE	TEMP	FLOW	NOTES	pH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E	
			L/s					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
2DD-S5	75/6/30	4	0.03		7.10		13	0.01	0.01	0.17		<0.10	1.20	
2DD-S5	75/7/16	4	0.03		6.80		12	0.04	0.01	0.24		<0.10	4.00	
2DD-S5	75/8/15	4	0.03		7.00		17	0.06	0.01	0.60		<0.10	8.90	
2DD-S5	75/9/16	5	0.03		6.80		9	0.03	<0.01	0.60		<0.10	11.15	
2DD-S5	75/10/15	4	0.03		7.10		10	0.04	<0.01	2.00		<0.10	15.14	
2DD-S5	76/6/16	5	0.030		6.80		12	<0.01	<0.01	0.60		<0.1	13.59	
2DD-S5	76/7/15	4	0.300		6.90		11	<0.01	<0.01	0.80		<0.1	16.93	
2DD-S5	76/8/17	4	0.357		6.80		9	<0.01	<0.01	0.40		<0.1	16.95	
2DD-S5	76/9/16	2	0.259		6.80		9	<0.01	<0.01	0.40		<0.1	23.90	
2DD-S5	76/10/14	1	0.050		6.70		7	<0.01	<0.01	<0.10		<0.1	21.10	
2DD-S5	77/5/17	4	0.400		6.70		20	0.01	0.01	2.04		0.04	24.50	
2DD-S5	77/6/15	4	0.650		6.80		5	<0.01	<0.01	2.79		<0.01	14.26	
2DD-S5	77/7/18	9	0.311		6.80		13	<0.01	<0.01	4.23		0.14	18.40	
2DD-S5	77/8/18	9	0.495		7.20		46	0.01	0.01	5.62		0.15	21.50	
2DD-S5	77/9/15	4	0.546		7.10		20	0.01	0.01	5.18		0.01	20.00	
2DD-S5	77/10/17	3.5	0.495		6.80		24	0.01	0.01	3.23		0.01	23.10	
2DD-S5	77/11/16	3	0.330		7.10		7	0.01	0.01	3.60		0.01	24.40	
2DD-S5	77/12/15	2	0.260		7.10		24	0.01	0.01	14.04		0.01	25.80	
2DD-S5	78/1/16	4	0.6		7.00		3	0.13	0.07	5.54		0.07	17.20	
2DD-S5	78/2/15	3			7.00		12	0.01	0.01	1.97		0.18	16.60	
2DD-S5	78/3/13	3			6.80		13	0.03	0.01	3.08		0.06	18.30	
2DD-S5	78/4/17	4	2.4		7.20		5	0.01	0.01	6.72		0.01	26.80	
2DD-S5	78/5/16	4	0.33		7.30		18	0.01	0.01	0.30		0.01	12.89	
2DD-S5	78/6/15	4	0.513		8.20		18	0.01	0.01	2.44		0.01	12.98	
2DD-S5	78/7/13	5	0.558		7.40		19	0.01	0.01	0.23		0.11	1.88	
2DD-S5	78/8/16	4	0.292		7.40		16	0.01	0.01	3.76		0.08	18.36	
2DD-S5	78/9/19	4	0.29		7.60		13	0.01	0.01	5.30		0.01	28.70	
2DD-S5	78/10/16	3	0.58		7.20		34	0.01	0.01	7.83		0.01	19.80	
2DD-S5	79/5/17	7	0.88		6.63		13	0.01	0.01	4.87		0.01	5.51	
2DD-S5	79/6/18	3	0.24		6.79		10	0.01	0.01	3.84		0.11	14.16	
2DD-S5	79/7/17	5	0.24		6.67		12	0.01	0.01	4.28		0.15	14.13	
2DD-S5	79/8/15	3	0.2		6.74		10	0.01	0.01	7.08		0.01	12.38	
2DD-S5	79/9/19	3	0.2		6.84		36	0.01	0.01	7.34		0.01	22.40	

STATION: 2DD-S5, GALKENO 900 ADIT

SAMPLED BY: UKHM

STATION	DATE	TEMP	FLOW	NOTES	pH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
			L/s					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2DD-S5	79/10/21	4	0.15		6.93		12	0.01	0.01	5.92		0.01	14.00
2DD-S5	80/5/16	5	0.18		6.93		13	0.02	0.01	5.10		0.01	31.8
2DD-S5	80/6/18	4	0.54		6.72		18	0.02	0.01	4.90		0.01	23.00
2DD-S5	80/7/11	6	0.32		6.92		5	0.02	0.02	5.06		0.08	16.90
2DD-S5	80/8/29	12			6.76		15	0.01	0.01	5.90		0.01	19.30
2DD-S5	80/9/29	10	0.2		6.80		16	0.04	0.03	7.50		0.29	8.87
2DD-S5	80/10/30	2	0.15		7.24		5	0.01	0.01	6.84		0.24	25.10
2DD-S5	80/11/24	2			7.12		12	0.01	0.01	7.30		0.01	33.70
2DD-S5	80/12/16	4			7.40		7	0.01	0.01	4.90		0.01	25.00
2DD-S5	81/10/19	2.0	0.0		6.65	0	6	0.040	0.010	0.010	0.000	0.01	18.000
2DD-S5	81/11/16	0.0	-0.1		0.00	0	0	0.000	0.000	0.000	0.000	0.00	0.000
2DD-S5	82/5/25	0.0	5.4		6.60	0	26	0.030	0.030	7.100	0.000	0.01	35.000
2DD-S5	82/6/17	10.0	0.0		7.02	0	8	0.010	0.010	4.400	0.000	0.01	21.000
2DD-S5	82/7/19	11.0	0.0		8.40	0	16	0.030	0.010	2.400	0.000	0.01	24.000
2DD-S5	82/8/11	0.0	0.0		6.77	0	7	0.050	0.030	3.940	0.000	0.01	20.200
2DD-S5	82/9/21	4.0	0.0		6.81	0	18	0.030	0.010	4.520	0.000	0.10	4.990
2DD-S5	82/10/20	3.0	0.0		7.18	0	2	0.040	0.020	3.660	0.000	0.01	4.490
2DD-S5	82/12/2	4.0	0.0		6.80	0	160	0.020	0.030	1.560	0.000	0.66	4.730
2DD-S5	83/3/28	0.0	0.0		6.72	0	90	0.020	0.020	0.270	0.000	0.45	7.550
2DD-S5	83/5/25	0.0	0.0		6.82	0	14	0.320	0.170	2.390	0.000	1.12	3.970
2DD-S5	83/6/22	0.0	0.0		7.50	0	0	0.070	0.010	0.050	0.000	0.45	0.810
2DD-S5	83/7/27	0.0	0.0		7.01	0	15	0.040	0.080	5.780	0.000	0.02	25.200
2DD-S5	83/8/25	5.0	0.0		6.94	0	16	0.010	-0.010	3.970	0.000	0.01	25.800
2DD-S5	83/9/22	0.0	0.0		6.84	0	7	0.010	-0.010	4.250	0.000	-0.01	19.200
2DD-S5	83/10/27	2.0	0.0		6.85	0	20	0.010	-0.010	3.730	0.000	-0.01	32.600
2DD-S5	84/1/3	0.0	0.0		6.81	1940	8	0.020	-0.010	5.320	0.000	-0.01	27.800
2DD-S5	84/6/4	0.0	0.0		6.74	0	4	0.030	-0.010	5.270	0.000	-0.01	24.600
2DD-S5	84/9/27	0.0	0.0		6.59	0	13	0.010	0.020	5.060	0.000	0.01	26.700
2DD-S5	85/5/29	0.0	0.0		7.50	0	7	0.010	0.010	4.570	0.000	-0.10	28.800
2DD-S5	85/7/31	0.0	0.0		6.96	0	5	0.040	-0.010	3.760	0.000	0.01	30.200
2DD-S5	85/9/5	4.0	0.0		7.01	0	14	0.020	0.020	5.370	0.000	-0.01	26.100
2DD-S5	85/10/17	0.0	0.0		7.00	0	10	-0.010	-0.010	5.840	0.000	-0.01	33.800
2DD-S5	85/11/28	1.0	0.0		7.07	1880	1	0.020	0.020	5.160	0.000	0.01	29.700

STATION: 2DD-S5, GALKENO 900 ADIT													
SAMPLED BY: UKHM													
STATION	DATE	TEMP	FLOW	NOTES	pH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
			L/s					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2DD-S5	86/2/4	2.0	0.0		6.92	1980	1	0.010	0.010	4.230	0.000	0.01	27.400
2DD-S5	86/5/28	0.0	0.0		7.01	2050	4	0.010	-0.010	5.750	0.000	-0.01	25.500
2DD-S5	86/7/1	0.0	0.0		6.88	1750	2	0.030	-0.010	4.040	0.000	-0.01	30.400
2DD-S5	86/7/30	0.0	0.0		6.92	1900	3	0.020	0.020	5.140	0.000	-0.01	29.800
2DD-S5	86/9/3	0.0	0.0		6.94	2080	6	0.020	0.010	4.080	0.000	-0.01	30.500
2DD-S5	86/10/12	0.0	0.0		7.24	2030	21	0.030	0.010	5.960	0.000	-0.50	30.100
2DD-S5	86/11/1	0.0	0.0		6.90	2000	-1	0.020	0.040	4.910	0.000	-0.50	31.600
2DD-S5	87/6/4	4.0	0.0		6.87	1710	1	0.010	0.010	4.620	0.000	0.01	25.600
2DD-S5	87/7/16	4.0	0.0		6.90	1650	8	0.010	-0.010	5.240	0.000	-0.01	31.800
2DD-S5	87/8/4	7.0	0.0		6.89	1940	13	0.030	-0.010	5.640	0.000	-0.01	32.500
2DD-S5	87/9/24	3.0	0.0		6.85	1362	8	0.030	-0.010	5.540	0.000	-0.01	28.200
2DD-S5	87/10/22	3.0	0.0		6.62	1925	10	0.020	0.010	4.080	0.000	0.17	27.600
2DD-S5	89/5/4	5.0	6.0		6.75	1800	6	0.030	0.020	3.180	53.260	0.10	1.270
2DD-S5	89/5/31	7.0	5.3		6.71	1640	40	0.050	0.000	4.400	23.170	0.06	41.360
2DD-S5	89/6/3	6.0	0.0		6.67	3000	6	0.050	0.000	3.790	69.400	0.27	39.200
2DD-S5	89/7/3	6.0	5.3		0.00	3000	8	0.050	0.000	3.790	89.400	0.27	39.200
2DD-S5	89/7/30	4.0	6.0		6.73	1800	14	0.030	0.020	4.030	63.900	0.22	39.500
2DD-S5	89/9/13	7.0	5.0		6.65	1850	10	0.030	0.020	4.110	83.000	0.00	42.000
2DD-S5	89/10/16	3.0	6.0		7.39	1525	6	0.030	0.010	1.730	107.400	0.06	49.300
2DD-S5	89/11/14	0.0	7.0		0.00	1360	38	0.020	0.010	3.530	83.300	0.02	39.200
2DD-S5	89/12/27	-1.0	6.0		0.00	1660	22	0.060	0.020	4.020	91.000	0.03	45.400
2DD-S5	90/2/2	0.0	6.0		6.90	1200	16	0.040	0.010	4.280	94.500	0.00	45.100
2DD-S5	90/4/1	2.0	5.0		6.71	1280	24	0.030	0.020	3.840	29.800	0.27	0.000
2DD-S5	90/4/28	3.0	1642.0		6.72	1410	32	0.000	0.000	3.800	0.070	0.00	6.850
2DD-S5	90/5/19	7.0	4.0		6.53	1510	8	0.030	0.010	4.000	78.000	0.10	40.000
2DD-S5	90/7/4	5.0	5.0		6.61	1600	12	0.030	0.010	3.600	82.000	0.26	36.000
2DD-S5	90/8/2	4.0	6.0		6.50	1450	24	0.030	0.010	3.400	82.000	0.14	36.000
2DD-S5	90/8/31	5.0	7.5		6.50	1500	28	0.030	0.060	3.500	83.000	0.07	36.000
2DD-S5	90/9/28	2.0	7.0		6.64	1650	28	-0.010	0.040	4.100	73.000	4.30	28.000
2DD-S5	90/10/30	0.5	8.0		6.49	1800	52	0.020	0.020	2.600	82.000	0.50	20.000
2DD-S5	90/11/30	0.5	0.4		6.80	1600	16	-0.010	0.010	2.000	48.000	0.19	21.500
2DD-S5	90/12/20	0.5	0.4		6.41	150	12	0.010	0.010	2.100	36.000	0.47	19.000
2DD-S5	91/3/19	2.0	2.0		7.10	1320	12	-0.010	0.410	8.310	#####	0.09	34.000

STATION: 2DD-S5, GALKENO 900 ADIT

SAMPLED BY: UKHM

STATION	DATE	TEMP	FLOW	NOTES	pH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
			L/s					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2DD-S5	91/4/29	9.0	4.6		6.95	870	16	0.070	0.030	22.100	27.220	0.05	23.430
2DD-S5	91/5/22	6.8	5.0		6.60	1038	4	0.180	-0.010	2.260	83.200	0.06	55.800
2DD-S5	91/6/22	7.0	4.5		7.15	1040	12	-0.010	-0.010	1.900	78.010	-0.01	64.640
2DD-S5	91/7/31	7.0	4.5		6.68	1040	8	0.010	-0.010	3.100	69.330	-0.01	67.510
2DD-S5	91/8/20	4.0	5.0		6.41	1040	12	0.010	0.030	3.120	3.500	-0.01	58.100
2DD-S5	91/9/16	4.0	5.0		6.10	1030	16	0.020	0.010	1.440	31.470	-0.01	36.550
2DD-S5	91/10/23	0.0	-0.1		0.00	0	0	0.000	0.000	0.000	0.000	0.00	0.000
2DD-S5	91/11/19	1.0	2.8		7.26	920	32	0.030	0.010	10.100	27.790	-0.01	32.000
2DD-S5	91/12/16	0.5	2.8		7.04	1100	28	0.010	0.010	6.430	56.120	0.02	39.860
2DD-S5	92/1/24	0.5	2.8		7.36	1100	32	0.010	-0.010	4.370	35.350	0.02	45.030
2DD-S5	92/2/27	1.0	2.8		6.87	1100	20	-0.010	0.010	5.120	20.310	0.06	43.020
2DD-S5	92/3/20	0.5	3.0		7.17	1100	28	-0.010	0.010	3.780	27.900	0.02	39.880
2DD-S5	92/4/23	1.0	3.0		6.32	1300	12	0.020	0.020	0.240	28.890	0.02	36.370
2DD-S5	92/5/27	2.0	7.0		8.10	1510	8	0.020	0.010	1.250	37.620	0.03	9.800
2DD-S5	92/6/25	2.0	6.0		8.52	1800	8	0.020	0.010	0.050	18.210	0.02	0.210
2DD-S5	92/7/29	7.0	6.0		9.64	1240	80	0.010	0.020	0.050	10.560	0.03	3.230
2DD-S5	92/8/28	5.0	6.0		8.31	1110	160	0.010	0.010	0.040	14.220	0.03	7.610
2DD-S5	92/10/5	4.5	6.0		9.01	1640	20	0.160	0.030	2.410	24.090	0.02	7.370
2DD-S5	92/10/30	2.5	9.0		9.09	1200	48	0.120	0.010	0.420	24.320	0.10	10.720
2DD-S5	92/11/18	2.5	9.0		9.07	1320	48	0.060	0.020	3.020	21.190	0.11	13.160
2DD-S5	92/12/14	2.5	9.0		10.87	1330	48	-0.010	0.030	2.020	11.280	0.13	11.440
2DD-S5	93/1/29	2.7	9.0		8.69	1300	52	0.020	0.020	1.370	26.800	0.06	5.920
2DD-S5	93/2/24	3.0	9.0		9.36	1400	48	0.030	0.020	4.130	27.920	0.05	6.710
2DD-S5	93/3/22	5.0	9.0		9.39	1320	32	0.020	0.030	0.890	26.460	0.03	2.790
2DD-S5	93/4/24	4.0	9.0		9.57	1210	28	0.020	0.030	0.640	0.350	0.06	0.400
2DD-S5	93/5/26	5.1	9.0		9.24	1360	0	0.020	0.010	0.140	35.280	0.21	0.690
2DD-S5	93/6/28	6.9	9.0		8.73	1520	0	0.010	0.020	0.020	42.130	-0.01	0.670
2DD-S5	93/7/21	6.9	12.0		8.10	2150	20	0.030	0.010	0.060	0.190	0.01	0.280
2DD-S5	93/8/28	4.7	12.0		8.90	1420	24	0.020	0.020	0.020	25.040	0.01	0.470
2DD-S5	93/9/29	3.5	12.0		8.90	1420	32	0.020	0.010	0.150	0.120	0.01	0.490
2DD-S5	93/10/26	3.0	11.0		8.60	1380	48	0.030	0.010	2.510	24.820	0.01	1.760
2DD-S5	93/11/25		-0.1	CONCRETE PLUG INSTALLED.									
2DD-S5	93/12/16	3.5	1.2		6.50	1450	12	0.070	0.020	1.150	21.560	0.02	23.180

STATION: 2DD-S5, GALKENO 900 ADIT

SAMPLED BY: UKHM

STATION	DATE	TEMP	FLOW	NOTES	pH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
			L/s					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2DD-S5	94/1/27	3.0	2.2		6.70	1300	16	0.030	-0.010	2.420	23.540	0.03	39.980
2DD-S5	94/2/24	3.0	2.3		6.70	1280	16	0.030	0.010	2.490	23.760	0.03	34.910
2DD-S5	94/3/28	2.0	2.4		6.90	1340	12	0.020	0.010	1.630	21.450	0.04	34.680
2DD-S5	94/4/23	5.0	24.0		6.90	1300	12	0.020	0.020	1.530	27.080	0.01	32.760
2DD-S5	94/5/10	3.2	3.0	Simultaneous	6.90	1400	12	0.030	0.030	1.510	24.100	0.03	36.400
				with Water Resources									
2DD-S5	94/10/31	2.8	4.4		6.50	1600	4	0.190	0.010	3.210	161.000	0.40	30.50
2DD-S5	94/11/29	2.8	4.4		6.39	1650	0	0.080	0.000	2.720	72.000	0.09	26.00
2DD-S5	95/01/05	2	4.5		6.86	1850	0	0.030	0.000	3.180	79.000	0.03	25.00
2DD-S5	95/02/06	2	4.5		7.70	2000	32	0.010	0.050	4.040	58.000	0.06	17.00
2DD-S5	95/03/29	0.2	4.5		7.00	1670	40	0.020	0.040	1.000	47.000	0.41	12.00
2DD-S5	95/04/27	7	1.1		7.22	1510	48	0.000	0.010	0.680	64.000	0.04	1.29
2DD-S5	95/05/03	7	1.6		8.66	1130	80	0.001	0.002	0.200	10.000	0.03	0.41
2DD-S5	95/06/06	8	2		7.80	1220	84	0.006	0.002	0.300	10.000	0.02	0.40
2DD-S5	95/08/11	9	4.75		8.21	750	8	0.004	0.002	0.200	10.000	0.01	5.70
2DD-S5	95/09/03	6	5		8.55	640	0	0.002	0.002	0.400	10.000	0.01	2.30

TATION: KENO 700 ADIT (S6)												
AMPLED BY: UKHM												
TATION	DATE	TEMP	FLOW L/s	pH	COND	NFR	CD_E mg/L	CU_E mg/L	FE_E mg/L	MN_E mg/L	PB_E mg/L	ZN_E mg/L
2DD-S06	90/3/26											
2DD-S06	90/4/27											
2DD-S06	90/5/29	1.0	0.01	7.2	430	32	0.01	0.02	1.50	2.80	0.24	2.00
2DD-S06	90/6/28	2.0	2.33	7.6	450	8	0.01	0.01	0.55	0.30	0.14	0.90
2DD-S06	90/7/29	4.0	2.33	7.7	450	28	0.01	0.04	0.80	0.38	0.88	1.00
2DD-S06	90/8/27	2.0	2.33	7.3	440	24	0.05	0.02	0.05	0.49	0.06	2.60
2DD-S06	90/9/27	0.0	6.33	7.8	490	24	0.01	0.04	0.02	0.24	0.50	2.80
2DD-S06	90/10/29											
2DD-S06	90/11/30											
2DD-S06	90/12/20											
2DD-S06	91/1/29											
2DD-S06	91/2/26											
2DD-S06	91/3/28											
2DD-S06	91/4/26											
2DD-S06	91/5/20	2.8	5.60	7.0	183	4	0.03		0.40	0.00	0.04	0.46
2DD-S06	91/6/1	3.0	4.50	7.7	220	4	0.03	0.01	0.38	0.00	0.05	0.24
2DD-S06	91/7/1	3.0	4.00	7.2	280	4	0.20		0.50	0.00	0.09	0.01
2DD-S06	91/8/1	2.0	5.00	7.7	260	4	0.01		0.01	0.00		0.06
2DD-S06	91/9/1	2.0	4.00	7.3	260	4	0.02		0.09	0.00		0.21
2DD-S06	91/10/1	1.0	4.00	7.8	260	12	0.01	0.02	0.08	0.01	0.06	0.09
2DD-S06	91/11/1	0.0	0.20	8.2	320	20	0.01	0.01	1.17	0.07		0.79
2DD-S06	91/12/1											
2DD-S06	92/1/1											
2DD-S06	92/2/1											
2DD-S06	92/3/1											
2DD-S06	92/4/1											
2DD-S06	92/5/1											
2DD-S06	92/6/1	1.0	2.00	7.8	400	8	0.01	0.01	0.40	0.41	0.02	0.43
2DD-S06	92/7/1	2.0	2.50	7.7	440	12	0.01	0.01	0.03	1.50	0.01	1.52
2DD-S06	92/8/1	2.0	3.00	7.5	320	24	0.01	0.01	0.04	0.11	0.01	0.36
2DD-S06	92/9/1	2.0	2.00	7.9	380	4	0.03	0.03	0.04	0.27	0.02	0.14
2DD-S06	92/10/1											
2DD-S06	92/11/1											

TATION: ONEK ADIT (S8)

AMPLED BY: UKHM

TATION	DATE	TEMP	FLOW L/s	pH	COND	NFR	CD_E mg/L	CU_E mg/L	FE_E mg/L	MN_E mg/L	PB_E mg/L	ZN_E mg/L
2DD-S08	92/12/1											
2DD-S08	93/1/1											
2DD-S08	93/2/1											
2DD-S08	93/3/1											
2DD-S08	93/4/1											
2DD-S08	93/5/1	6.0	0.33	7.0	1000		5.28	0.02	0.36	16.09	0.18	25.34
2DD-S08	93/6/1	8.0	0.33	6.9	980		1.70	0.02	0.57	4.23	0.03	40.04
2DD-S08	93/7/1	3.8	0.40	7.8	1280	44	1.07	0.02	0.63	6.65	0.01	61.39
2DD-S08	93/8/1	3.1	0.50	7.6	1080	60	0.91	0.05	2.66	0.98	0.02	37.83
2DD-S08	93/9/1											
2DD-S08	93/10/1											
2DD-S08	93/11/1											
2DD-S08	93/12/1											
2DD-S08	94/1/1											
2DD-S08	94/2/1	1.0	0.10	8.0	1040	8	0.01	0.01	0.26	7.00	0.03	27.85
2DD-S08	94/3/1	2.0	0.30	7.7	710	20	0.32	0.01	0.20	1.79	0.02	23.78
2DD-S08	94/4/24	4.0	0.30	7.6	700	8	0.54	0.01	0.27	1.88	0.01	28.24
2DD-S08	94/5/10	1.8	0.50	7.4	940	4	6.12	0.05	0.60	8.10	0.02	48.64
2DD-S08	94/5/31	8.6	0.30	7.4	920	12	2.96	0.03	0.97	7.09	0.03	63.00
2DD-S08	94/6/28	3.6	0.33	7.8	860	0	1.29	0.04	0.59	6.45	0.29	65.00
2DD-S08	94/7/29	4.0	0.50	7.8	1075	0	1.13	0.02	1.63	7.70		68.10
2DD-S08	94/10/31		0.00									
2DD-S08	94/11/29		0.00									
2DD-S08	95/1/5	0.5		7.2	1800	4.4	1.24	0.02	2.03	9.33	0.09	78.00
2DD-S08	95/2/6	0.5	0.20	7.3	940	2	0.67	0.01	0.73	2.87	0.06	37.00
2DD-S08	95/3/29	1.0	0.20	6.9	890	0	0.52	0.03	1.83	4.88	0.00	45.00
2DD-S08	95/4/27	1.0	0.30	6.6	800	0	0.84	0.01	0.70	6.30	0.00	42.00
2DD-S08	95/5/3	1.5	0.30	6.5	910	2.8	7.63	0.03	0.66	20.00	0.00	142.00
2DD-S08	95/6/6	2.0	0.30	7.0	740	4	2.90	0.00	0.40	8.10	0.01	>10.00
2DD-S08	95/8/11	2.0	0.30	7.5	550	16	1.01	0.00	0.40	4.20	0.02	>10.00
2DD-S08	95/9/3	3.0	0.30	7.4	540	1.2	0.82	0.00	0.40	4.10	0.01	>10.00

LOCATION: KENO 700 ADIT (S6)												
SAMPLED BY: UKHM												
LOCATION	DATE	TEMP	FLOW	pH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
			L/s				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2DD-S06	90/3/26											
2DD-S06	90/4/27											
2DD-S06	90/5/29	1.0	0.01	7.2	430	32	0.01	0.02	1.50	2.80	0.24	2.00
2DD-S06	90/6/28	2.0	2.33	7.6	450	8	0.01	0.01	0.55	0.30	0.14	0.90
2DD-S06	90/7/29	4.0	2.33	7.7	450	28	0.01	0.04	0.80	0.38	0.88	1.00
2DD-S06	90/8/27	2.0	2.33	7.3	440	24	0.05	0.02	0.05	0.49	0.06	2.60
2DD-S06	90/9/27	0.0	6.33	7.6	490	24	0.01	0.04	0.02	0.24	0.50	2.80
2DD-S06	90/10/29											
2DD-S06	90/11/30											
2DD-S06	90/12/20											
2DD-S06	91/1/29											
2DD-S06	91/2/26											
2DD-S06	91/3/28											
2DD-S06	91/4/26											
2DD-S06	91/5/20	2.8	5.60	7.0	183	4	0.03		0.40	0.00	0.04	0.46
2DD-S06	91/6/1	3.0	4.50	7.7	220	4	0.03	0.01	0.38	0.00	0.05	0.24
2DD-S06	91/7/1	3.0	4.00	7.2	280	4	0.20		0.50	0.00	0.09	0.01
2DD-S06	91/8/1	2.0	5.00	7.7	260	4	0.01		0.01	0.00		0.06
2DD-S06	91/9/1	2.0	4.00	7.3	260	4	0.02		0.09	0.00		0.21
2DD-S06	91/10/1	1.0	4.00	7.8	260	12	0.01	0.02	0.08	0.01	0.06	0.09
2DD-S06	91/11/1	0.0	0.20	8.2	320	20	0.01	0.01	1.17	0.07		0.79
2DD-S06	91/12/1											
2DD-S06	92/1/1											
2DD-S06	92/2/1											
2DD-S06	92/3/1											
2DD-S06	92/4/1											
2DD-S06	92/5/1											
2DD-S06	92/6/1	1.0	2.00	7.8	400	8	0.01	0.01	0.40	0.41	0.02	0.43
2DD-S06	92/7/1	2.0	2.50	7.7	440	12	0.01	0.01	0.03	1.50	0.01	1.52
2DD-S06	92/8/1	2.0	3.00	7.5	320	24	0.01	0.01	0.04	0.11	0.01	0.36
2DD-S06	92/9/1	2.0	2.00	7.9	380	4	0.03	0.03	0.04	0.27	0.02	0.14
2DD-S06	92/10/1											
2DD-S06	92/11/1											

LOCATION: KENO 700 ADIT (S6)

SAMPLED BY: UKHM

LOCATION	DATE	TEMP	FLOW	pH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
			L/s				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2DD-S06	92/12/1											
2DD-S06	93/1/1											
2DD-S06	93/2/1											
2DD-S06	93/3/1											
2DD-S06	93/4/1											
2DD-S06	93/5/1	1.0	1.50	7.1	150		0.01	0.01	0.23		0.15	0.52
2DD-S06	93/6/1	3.8	4.00	7.9	380		0.02	0.01	0.04	0.21	0.02	0.02
2DD-S06	93/7/1	2.8	2.00	7.7	580	8	0.01	0.01	0.07	0.03		0.07
2DD-S06	93/8/1	2.1	2.00	7.9	420	4	0.01			0.01	0.01	0.22
2DD-S06	93/9/1	1.6	2.00	8.1	460	4	0.01	0.06	0.05	0.04		0.17
2DD-S06	93/10/1	1.4	2.00	8.0	380	4	0.02	0.02	0.12	0.04	0.02	0.86
2DD-S06	93/11/1	0.1	0.30	8.1	400	4	0.02	0.02	0.04	0.09		0.21
2DD-S06	93/12/1											
2DD-S06	94/1/1											
2DD-S06	94/2/1											
2DD-S06	94/3/1											
2DD-S06	94/4/24											
2DD-S06	94/5/10											
2DD-S06	94/5/31	2.2	4.00	6.9	320	4	0.04	0.01	0.07	0.15	0.09	2.70
2DD-S06	94/6/28	2.8	4.00	6.8	310	4			0.04	0.04	0.01	1.90
2DD-S06	94/7/29	3.1	2.20	8.0	515	0		0.01	0.12	0.21	0.05	1.17
2DD-S06	94/10/31	0.9	2.00	8.2	400	0	0.03	0.03	0.00	0.04	0.25	1.70
2DD-S06	94/11/29											
2DD-S06	95/1/5											
2DD-S06	95/2/6											
2DD-S06	95/3/29											
2DD-S06	95/4/27											
2DD-S06	95/5/3											
2DD-S06	95/6/6	2.0	2.00	7.0	345	24	0.01	0.02	0.24	0.06	0.00	1.25
2DD-S06	95/8/11	2.0	0.30	7.9	350	0	0.05	0.04	0.02	0.20	0.21	1.84

STATION: SADIE LADUE ADIT (S7)												
SAMPLED BY: UKHM												
STATION	DATE	TEMP	FLOW	pH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
			L/s				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2DD-S07	90/3/26											
2DD-S07	90/4/27											
2DD-S07	90/5/29	7.0		7.2	310	28	0.01	0.02	0.17	0.10	0.01	2.20
2DD-S07	90/6/28	3.0	0.67	7.8	540	14	0.01	0.01	0.05	0.02	0.08	0.60
2DD-S07	90/7/29											
2DD-S07	90/8/27											
2DD-S07	90/9/27											
2DD-S07	90/10/29	0.0		7.7	1000	24	0.01	0.02	0.13	0.24	0.50	0.01
2DD-S07	90/11/30											
2DD-S07	90/12/20											
2DD-S07	91/1/29											
2DD-S07	91/2/26											
2DD-S07	91/3/28											
2DD-S07	91/4/26											
2DD-S07	91/5/20	2.9	9.00	7.6	390	4	0.09	0.01	0.05	0.00		1.65
2DD-S07	91/6/1	4.0	8.00	8.0	240	4	0.04	0.01	0.28	0.00		0.34
2DD-S07	91/7/1	5.0	8.00	8.6	290	8	0.06	0.01	0.19	0.00		0.41
2DD-S07	91/8/1	2.0	8.00	7.6	380	4	0.01		0.02	0.01		0.10
2DD-S07	91/9/1	2.0	8.00	7.4	370	4	0.01		0.02	0.01		0.10
2DD-S07	91/10/1	1.0	6.00	7.8	320	8	0.01		0.73	0.00	0.01	0.64
2DD-S07	91/11/1	1.0	4.00	8.3	260	4		0.01	0.00	0.00		0.12
2DD-S07	91/12/1	0.0	3.50	8.1	280	8		0.01	0.00	0.00	0.01	0.26
2DD-S07	92/1/1	0.0	3.50	8.2	300	8		0.01	0.01		0.01	0.28
2DD-S07	92/2/1	1.0	3.50	8.0	300	8		0.01	0.04		0.02	0.09
2DD-S07	92/3/1	0.0	3.50	7.9	280	4		0.01	0.03	0.01	0.01	0.09
2DD-S07	92/4/1	0.0	3.50	7.9	285	4		0.01	0.03	0.01	0.01	0.05
2DD-S07	92/5/1	2.0	30.00	7.0	250	12	0.01	0.01	0.11	1.17	0.02	1.20
2DD-S07	92/6/1	1.0	19.00	7.5	300	8	0.01	0.01	0.01	0.04	0.01	0.95
2DD-S07	92/7/1	2.0	10.00	7.9	360	12					0.01	0.51
2DD-S07	92/8/1	2.0	10.00	7.1	270	12		0.01	0.02	0.01	0.01	0.22
2DD-S07	92/9/1	2.0	10.00	7.9	300	8	0.02	0.02	0.13	0.02	0.01	0.04
2DD-S07	92/10/1	1.2	14.00	8.2	492	12	0.01	0.01	0.13	0.00	0.03	0.01
2DD-S07	92/11/1	1.0	14.00	8.2	340	8	0.01	0.02	0.17		0.03	0.04

STATION: SADIE LADUE ADIT (S7)

SAMPLED BY: UKHM

STATION	DATE	TEMP	FLOW	pH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
			L/s				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2DD-S07	92/12/1	0.1	12.00	8.2	440	8			0.02		0.01	0.01
2DD-S07	93/1/1	0.1	12.00	8.3	360	8	0.01	0.02	0.02		0.02	0.01
2DD-S07	93/2/1	0.1	10.00	8.0	380	8	0.01	0.01	0.01		0.02	0.02
2DD-S07	93/3/1	0.1	11.00	8.1	360	8	0.01	0.02	0.01		0.02	0.12
2DD-S07	93/4/1	1.0	11.00	7.5	420	8	0.01	0.01	0.01		0.02	0.12
2DD-S07	93/5/1	1.0	14.00	7.2	360		0.01	0.02	0.08	0.04		2.22
2DD-S07	93/6/1	2.0	16.00	8.0	420		0.01	0.03	0.02	0.02	0.01	0.09
2DD-S07	93/7/1	4.8	16.00	8.0	505	16		0.01	0.01	0.00	0.01	0.16
2DD-S07	93/8/1	3.2	16.00	7.8	280	4	0.01	0.02			0.01	0.22
2DD-S07	93/9/1	2.2	16.00	7.4	310	8	0.01	0.09	0.05	0.02	0.01	0.24
2DD-S07	93/10/1	2.2	16.00	8.2	260	4	0.01	0.03	0.04	0.01		0.47
2DD-S07	93/11/1	2.1	16.00	8.2	300	4	0.01	0.02	0.02	0.02	0.01	0.46
2DD-S07	93/12/1	2.5	16.00	7.8	320	4	0.01	0.01	0.01	0.01	0.01	0.37
2DD-S07	94/1/1	2.0	14.00	8.3	300	4	0.02	0.01	0.01	0.00	0.02	0.27
2DD-S07	94/2/1	2.0	14.00	8.3	340	4	0.01	0.01	0.14	0.02	0.02	0.39
2DD-S07	94/3/1	2.0	10.00	8.3	360	4		0.01	0.13	0.03	0.02	0.41
2DD-S07	94/4/24	2.0	12.00	8.2	320	4	0.01	0.01	0.02	ND	0.02	0.36
2DD-S07	94/5/10											
2DD-S07	94/5/31	3.4	16.00	7.7	400	4	0.01	0.03	0.18	0.04	0.04	1.09
2DD-S07	94/6/28	6.0	2.00	8.5	390	0	0.02	0.02	0.01	0.02	0.02	0.60
2DD-S07	94/7/29	1.0		7.9	410	8		0.01	0.23	0.05	0.10	0.49
2DD-S07	94/10/31	1.3	12.00	8.2	320	0	0.16	0.00	0.00	0.12	0.29	0.60
2DD-S07	94/11/29	1.3	12.00	8.2	410	0	0.00	0.00	0.00	0.01	0.15	0.75
2DD-S07	95/1/5	1.0	10.00	7.5	470	0	0.03	0.00	0.03	0.08	0.06	0.53
2DD-S07	95/2/6	0.5	10.00	7.2	500	0	0.02	0.00	0.30	0.08	0.04	0.60
2DD-S07	95/3/29	1.0	10.00	7.4	470	0	0.04	0.01	0.28	0.00	0.06	0.95
2DD-S07	95/4/27	1.5	3.00	7.5	465	8	0.04	0.00	0.59	0.08	0.00	0.54
2DD-S07	95/5/3	1.0	12.00	7.9	330	0	0.06	0.02	0.55	0.00	0.02	0.93
2DD-S07	95/6/6	2.0	11.00	7.0	345	24	0.04	0.03	0.33	0.13	0.00	1.75
2DD-S07	95/8/11	2.0	13.00	7.9	290	16	0.00	0.04	0.01	0.05	0.18	0.45
2DD-S07	95/9/3	1.0	13.00	7.7	270	4	0.04	0.03	0.18	0.01	0.00	0.41

United Keno Hill Mines Limited

STATION NUMBER:		2DD-S9					
STATION DESCRIPTION:		Flat Creek ~600m upstream of confluence with South McQuesten Rive					
	Sampled by:	DIAND	DIAND	DIAND	DIAND	DIAND	DIAND
		70/5/19	72/9/19	72/10/20	73/6/23	73/7/17	73/7/28
FLOW	(L/s)						
TEMP	(oC)		1.1	2.0	9.5		13.0
pH	insitu						
	lab	7.5	7.7	7.9	7.6	8	8.3
COND	insitu						
(umhos/cm)	lab	223	465	717	246	331	453
DISSOLVED	OXYGEN						
COLOUR	(FTU)						
TURBIDITY	(FTU)	15	21	38	7.2	8.4	5.7
T. Alkalinity	CaCO ₃	40	101	192	71.3	94.5	136
T. Hardness	CaCO ₃		252	522	128	193	248
Sulphate		68.6	149	317	50.5	76.7	1.1
Cl		0.70	1.10	2.90			
PO ₄							
NO ₂							
NO ₃							
NH ₃							
NFR			13.6		16	44	8
Ag	Ext			<0.008			
As	Ext				<0.005	<0.005	
B	Ext						
Ba	Ext						
Be	Ext						
Ca	Ext						
Cd	Ext						
Co	Ext						
Cr	Ext						
Cu	Ext	0.02	0.021	0.034	0.02	0.017	0.02
Fe	Ext	0.33	1.6	5.0	1.2	0.72	0.76
Mg	Ext						
Mn	Ext		3.7	5.6	1.2	1.3	0.18
Mo	Ext						
Na	Ext						
Ni	Ext						
P	Ext						
Pb	Ext		0.31	0.85	0.35	0.13	0.14
Sb	Ext						
Se	Ext						
Si	Ext						
Sn	Ext						
Sr	Ext						
Ti	Ext						
V	Ext						
Zn	Ext	1.0	3.1	3.2	0.88	0.72	0.7

United Keno Hill Mines Limited

STATION NUMBER:		2DD-S9					
STATION DESCRIPTION:		Flat Creek ~600m upstream of confluence with South McQuesten Rive					
	Sampled by:	DIAND	DIAND	DIAND	DIAND	DIAND	EPS
		73/8/6	73/8/14	73/9/5	74/6/11	74/7/3	74/7/15
FLOW	(L/s)						
TEMP	(oC)	12.5					14.5
pH	insitu						6.5
	lab	8.4	8	8.1	7.4	8.1	
COND	insitu						310
(umhos/cm)	lab	500	342	354	330	425	
DISSOLVED	OXYGEN						9.9
COLOUR	(FTU)						45
TURBIDITY	(FTU)	0.68	0.62	3.8	7.9	2.1	3.2
T. Alkalinity	CaCO ₃	140	112	103	76.4	110	
T. Hardness	CaCO ₃	278	197	188	172	225	240
Sulphate		131	70.4	79.6	91	107.5	
Cl							
PO ₄							
NO ₂							
NO ₃							
NH ₃							
NFR				8	20		<5
Ag	Ext						
As	Ext					0.011	
B	Ext						
Ba	Ext						
Be	Ext						
Ca	Ext						66.0
Cd	Ext						<0.01
Co	Ext						
Cr	Ext						
Cu	Ext	0.2	0.006	0.01	0.027	0.033	<0.02
Fe	Ext	1.1	0.46	1.2	1.6	0.76	
Mg	Ext						17.89
Mn	Ext	2.2	0.49	1.6	2.1	1.8	2.3
Mo	Ext						<0.1
Na	Ext						
Ni	Ext						
P	Ext						
Pb	Ext	0.15	0.12	0.15	0.31	0.15	<0.02
Sb	Ext						
Se	Ext						
Si	Ext						
Sn	Ext						
Sr	Ext						
Ti	Ext						
V	Ext						
Zn	Ext	8.6	0.80	0.82	0.80	0.72	0.73

STATION NUMBER:		2DD-S9					
STATION DESCRIPTION:		Flat Creek ~600m upstream of confluence with South McQuesten Rive					
Sampled by:		DIAND	DIAND	EPS	EPS	DIAND	DIAND
		74/8/14	74/9/5	75/6/6	75/7/9	75/8/12	78/5/30
FLOW	(L/s)						281
TEMP	(°C)			9.5	15.0	9.0	3.0
pH	insitu			8.3	8.05		7.45
	lab	7.9	8.1		8.0	8.6	7.8
COND	insitu			153	325		185
(umhos/cm)	lab	378	531			513	399
DISSOLVED	OXYGEN			10.2	8.85		
COLOUR	(FTU)				44		30
TURBIDITY	(FTU)	4.7	5.1		0.3	5.2	1.8
T. Alkalinity	CaCO ₃	108	141		117.8	130	81.6
T. Hardness	CaCO ₃	199	288		220	137	199
Sulphate		88	132			150	119
Cl							
PO ₄							0.017
NO ₂							
NO ₃							
NH ₃							
NFR		<10	<10		8	0.5	<5
Ag	Ext			<0.01	<0.03	0.006	<0.005
As	Ext	0.01	<0.005				0.0084
B	Ext						
Ba	Ext						
Be	Ext						
Ca	Ext				60.0		
Cd	Ext			0.01	<0.01		0.008
Co	Ext						
Cr	Ext						
Cu	Ext	0.019	0.028	0.20	<0.01	0.011	0.008
Fe	Ext	0.61	0.71		0.340	0.57	0.600
Mg	Ext				16.00		
Mn	Ext	1.6	2.5			3.1	0.56
Mo	Ext			<0.3	<0.3		
Na	Ext						
Ni	Ext			<0.1	<0.1		
P	Ext						
Pb	Ext	0.16	0.14	0.24	0.06	0.07	0.18
Sb	Ext			<0.3	<0.3		
Se	Ext						
Si	Ext						
Sn	Ext						
Sr	Ext						
Ti	Ext						
V	Ext						
Zn	Ext	0.7	0.7	0.77	0.60	0.68	0.61

United Keno Hill Mines Limited

STATION NUMBER:		2DD-S9					
STATION DESCRIPTION:		Flat Creek ~600m upstream of confluence with South McQuesten River					
	Sampled by:	DIAND	EPS	EPS	EPS	DIAND	EPS
		78/7/14	80/8/5	80/8/6	80/8/7	83/9/22	85/7/9
FLOW	(L/s)						70
TEMP	(°C)	8				3.7	12.5
pH	insitu	7.85	8	8.2	8	8.0	7.8
	lab		7.7	7.9	7.9	7.9	8.0
COND	insitu	540				360	600
(umhos/cm)	lab		680	650	640	613	880
DISSOLVED	OXYGEN	9.46	10	9.53	10.01		8.4
COLOUR	(FTU)		20	25	25	20	20
TURBIDITY	(FTU)		3.9	4.8	3.7	5.1	2.6
T. Alkalinity	CaCO ₃		128	129	134	148	143.3
T. Hardness	CaCO ₃		355	331	339	340	494
Sulphate			213	198	190	213	307
Cl			9.70	8.96	8.18		5.00
PO ₄			0.0123	0.0133	0.0109		0.005
NO ₂			0.023	0.026	0.025	0.13	<0.005
NO ₃			0.226	0.214	0.218		0.088
NH ₃			1.230	0.067	0.039	0.076	0.013
NFR			<5	6	<5	<5	<5
Ag	Ext					<0.0005	0.0007
As	Ext		0.0015	0.0018	0.0011	<0.05	<0.05
B	Ext						0.015
Ba	Ext		0.0487	0.0434	0.0438	0.037	0.032
Be	Ext					<0.001	0.001
Ca	Ext		113.0	105.0	107.0	94.3	140.3
Cd	Ext		<0.01	<0.01	<0.01	0.008	0.0043
Co	Ext		<0.015	<0.015	<0.015	<0.005	<0.005
Cr	Ext		<0.015	<0.015	<0.015	0.005	<0.005
Cu	Ext		<0.01	<0.01	<0.01	<0.010	0.006
Fe	Ext		0.633	0.513	0.486	0.602	0.300
Mg	Ext		17.6	16.6	17.4	24.4	33.7
Mn	Ext		1.31	0.936	0.847	2.67	2.097
Mo	Ext		<0.15	<0.15	<0.15	<0.005	<0.006
Na	Ext		9.0	8.1	7.9	6.1	12.1
Ni	Ext		<0.08	<0.08	<0.08	<0.02	<0.02
P	Ext						<0.05
Pb	Ext		<0.08	<0.08	<0.08	0.06	0.021
Sb	Ext		<0.0005	<0.0005	<0.0005	<0.05	<0.05
Se	Ext		<0.0005	<0.0005	<0.0005	<0.05	<0.05
Si	Ext		2.11	2.07	1.97	2.8	1.7
Sn	Ext		<0.2	<0.2	<0.2	<0.01	<0.01
Sr	Ext		0.226	0.211	0.215	0.194	0.259
Ti	Ext		<0.0085	<0.0085	<0.0085	<0.002	<0.002
V	Ext		<0.05	<0.05	<0.05	<0.01	<0.005
Zn	Ext		0.390	0.309	0.293	0.783	0.331

STATION NUMBER:		2DD-S9					
STATION DESCRIPTION:		Flat Creek ~600m upstream of confluence with South McQuesten Rive					
Sampled by:		EPS	DIAND	EPS	EPS	PC-B	EPS
		85/8/21	85/11/27	86/6/17	90/7/24	90/8/31	90/9/19
FLOW	(L/s)	60					
TEMP	(°C)	7.5			12.5	5.0	4.5
pH	insitu	7.9			8.11	8.2	
	lab	7.6	7.7	8.0			8.1
COND	insitu	580			480	620	270
(umhos/cm)	lab	900	750	411	658		473
DISSOLVED	OXYGEN	20.4			9.3	9.5	11.7
COLOUR	(FTU)	10	<5		10		25
TURBIDITY	(FTU)	1.93	0.25		0.4		0.4
T. Alkalinity	CaCO ₃	163	186		192		136
T. Hardness	CaCO ₃	509	398		347		232
Sulphate		297	210		153		110.0
Cl		6.80	3.90		2.9		2.5
PO ₄		<0.005			<0.002		0.003
NO ₂		<0.005	<0.005		<0.002		<0.002
NO ₃		0.160	0.210		0.055		0.036
NH ₃		0.160	<0.005		0.014		0.007
NFR		<10	<5		<10	<5	<10
Ag	Ext	<0.0005		<0.0005	0.0002		0.0013
As	Ext	<0.05	<0.05		<0.05		<0.05
B	Ext	0.005	0.011		<0.01		<0.01
Ba	Ext	0.027	0.103		0.03		0.023
Be	Ext	<0.001	<0.001		<0.001		<0.001
Ca	Ext	145.0	112.0		96.7		62.7
Cd	Ext	0.0018	<0.002	0.0014	0.0009		0.0015
Co	Ext	<0.005	<0.005		<0.005		<0.005
Cr	Ext	<0.005	<0.005		0.006		<0.005
Cu	Ext	0.005	<0.005		0.0025		0.0023
Fe	Ext	0.499	0.037	0.207	0.1		0.127
Mg	Ext	34.9	28.4	14.6	25.5		18.2
Mn	Ext	0.573	0.019	0.103	0.016		0.090
Mo	Ext	<0.005	<0.005		<0.01		<0.01
Na	Ext	17.0	7.1		5.7		2.4
Ni	Ext	<0.02	<0.02		<0.02		<0.02
P	Ext	0.08			<0.1		<0.1
Pb	Ext	0.003	<0.02	0.01	0.0119		0.0160
Sb	Ext	<0.05	<0.05		<0.05		<0.05
Se	Ext	<0.05	<0.05		<0.05		<0.05
Si	Ext	2.3	2.1		2.26		2.68
Sn	Ext	<0.01	<0.01	<0.01	<0.05		<0.05
Sr	Ext	0.291	0.167		0.219		0.148
Ti	Ext	<0.002	<0.002		<0.002		<0.002
V	Ext	<0.005	<0.005		<0.01		<0.01
Zn	Ext	0.215	0.075	0.228	0.076		0.217

United Keno Hill Mines Limited

STATION NUMBER:		2DD-S9					
STATION DESCRIPTION:		Flat Creek ~600m upstream of confluence with South McQuesten Rive					
Sampled by:		DIAND	DIAND	DIAND	DIAND	DIAND	DIAND
		70/5/19	72/9/19	72/10/20	73/6/23	73/7/17	73/7/28
Ag	Diss						
As	Diss						
B	Diss						
Ba	Diss						
Be	Diss						
Ca	Diss						
Cd	Diss						
Co	Diss						
Cr	Diss						
Cu	Diss						
Fe	Diss						
Mg	Diss						
Mn	Diss						
Mo	Diss						
Na	Diss						
Ni	Diss						
P	Diss						
Pb	Diss						
Sb	Diss						
Se	Diss						
Si	Diss						
Sn	Diss						
Sr	Diss						
Ti	Diss						
V	Diss						
Zn	Diss						

STATION NUMBER:		2DD-S9					
STATION DESCRIPTION:		Flat Creek ~600m upstream of confluence with South McQuesten Rive					
	Sampled by:	DIAND	DIAND	DIAND	DIAND	DIAND	EPS
		73/8/6	73/8/14	73/9/5	74/6/11	74/7/3	74/7/15
Ag	Diss						
As	Diss						
B	Diss						
Ba	Diss						
Be	Diss						
Ca	Diss						
Cd	Diss						
Co	Diss						
Cr	Diss						
Cu	Diss						
Fe	Diss						
Mg	Diss						
Mn	Diss						
Mo	Diss						
Na	Diss						
Ni	Diss						
P	Diss						
Pb	Diss						
Sb	Diss						
Se	Diss						
Si	Diss						
Sn	Diss						
Sr	Diss						
Ti	Diss						
V	Diss						
Zn	Diss						

United Keno Hill Mines Limited

STATION NUMBER:		2DD-S9					
STATION DESCRIPTION:		Flat Creek ~600m upstream of confluence with South McQuesten Rive					
Sampled by:		DIAND	DIAND	EPS	EPS	DIAND	DIAND
		74/8/14	74/9/5	75/6/6	75/7/9	75/8/12	78/5/30
Ag	Diss						
As	Diss						
B	Diss						
Ba	Diss						
Be	Diss						
Ca	Diss						
Cd	Diss						
Co	Diss						
Cr	Diss						
Cu	Diss						
Fe	Diss						
Mg	Diss						
Mn	Diss						
Mo	Diss						
Na	Diss						
Ni	Diss						
P	Diss						
Pb	Diss						
Sb	Diss						
Se	Diss						
Si	Diss						
Sn	Diss						
Sr	Diss						
Ti	Diss						
V	Diss						
Zn	Diss						

United Keno Hill Mines Limited

STATION NUMBER:		2DD-S9					
STATION DESCRIPTION:		Flat Creek ~600m upstream of confluence with South McQuesten Rive					
Sampled by:		DIAND	EPS	EPS	EPS	DIAND	EPS
		78/7/14	80/8/5	80/8/6	80/8/7	83/9/22	85/7/9
Ag	Diss						
As	Diss						
B	Diss						
Ba	Diss						
Be	Diss						
Ca	Diss						
Cd	Diss						
Co	Diss						
Cr	Diss						
Cu	Diss						
Fe	Diss						
Mg	Diss						
Mn	Diss						
Mo	Diss						
Na	Diss						
Ni	Diss						
P	Diss						
Pb	Diss						
Sb	Diss						
Se	Diss						
Si	Diss						
Sn	Diss						
Sr	Diss						
Ti	Diss						
V	Diss						
Zn	Diss						

STATION NUMBER:		2DD-S9					
STATION DESCRIPTION:		Flat Creek ~600m upstream of confluence with South McQuesten Rive					
	Sampled by:	EPS	DIAND	EPS	EPS	PC-B	EPS
		85/8/21	85/11/27	86/6/17	90/7/24	90/8/31	90/9/19
Ag	Diss						
As	Diss						
B	Diss						
Ba	Diss						
Be	Diss						
Ca	Diss						
Cd	Diss						
Co	Diss						
Cr	Diss						
Cu	Diss						
Fe	Diss						
Mg	Diss						
Mn	Diss						
Mo	Diss						
Na	Diss						
Ni	Diss						
P	Diss						
Pb	Diss						
Sb	Diss						
Se	Diss						
Si	Diss						
Sn	Diss						
Sr	Diss						
Ti	Diss						
V	Diss						
Zn	Diss						

United Keno Hill Mines Limited

STATION NUMBER:		2DD-S9		
STATION DESCRIPTION:		Flat Creek ~600m upstream of conf		
	Sampled by:	EPS	DIAND	DIAND
		95/4/12	95/5/16	95/8/3
Ag	Diss	<0.01		
As	Diss	<0.05		
B	Diss			
Ba	Diss	0.099		
Be	Diss	<0.001		
Ca	Diss	64.4		
Cd	Diss	<0.005		
Co	Diss	<0.005		
Cr	Diss	<0.005		
Cu	Diss	<0.006		
Fe	Diss	0.086		
Mg	Diss	19.9		
Mn	Diss	0.087		
Mo	Diss	<0.01		
Na	Diss	2.9		
Ni	Diss	<0.02		
P	Diss	<0.1		
Pb	Diss	<<0.05		
Sb	Diss	<0.05		
Se	Diss	<0.05		
Si	Diss	3.46		
Sn	Diss	<0.05		
Sr	Diss	0.221		
Ti	Diss	<0.002		
V	Diss	<0.01		
Zn	Diss	0.029		

United Keno Hill Mines Limited

STATION NUMBER:		2DD-S9					
STATION DESCRIPTION:		Flat Creek ~600m upstream of confluence with South McQuesten Rive					
	Sampled by:	DIAND	DIAND	DIAND	DIAND	DIAND	DIAND
		70/5/19	72/9/19	72/10/20	73/6/23	73/7/17	73/7/28
Ag	Total		0.004	<0.004			
Ag	Total						
As	Total						
B	Total						
Ba	Total						
Be	Total						
Ca	Total						
Cd	Total						
Co	Total						
Cr	Total						
Cu	Total						
Cu	Total						
Fe	Total						
Fe	Total						
Mg	Total						
Mn	Total						
Mo	Total						
Na	Total						
Ni	Total						
P	Total						
Pb	Total						
Pb	Total						
Sb	Total						
Se	Total						
Si	Total						
Sn	Total						
Sr	Total						
Ti	Total						
V	Total						
Zn	Total						
Zn	Total						
CN							

STATION NUMBER:		2DD-S9					
STATION DESCRIPTION:		Flat Creek ~600m upstream of confluence with South McQuesten Rive					
	Sampled by:	DIAND	DIAND	DIAND	DIAND	DIAND	EPS
		73/8/6	73/8/14	73/9/5	74/6/11	74/7/3	74/7/15
Ag	Total						
Ag	Total						
As	Total						
B	Total						
Ba	Total						
Be	Total						
Ca	Total						
Cd	Total						
Co	Total						
Cr	Total						
Cu	Total						
Cu	Total						
Fe	Total						
Fe	Total						
Mg	Total						
Mn	Total						
Mo	Total						
Na	Total						
Ni	Total						
P	Total						
Pb	Total						
Pb	Total						
Sb	Total						
Se	Total						
Si	Total						
Sn	Total						
Sr	Total						
Ti	Total						
V	Total						
Zn	Total						
Zn	Total						
CN							

STATION NUMBER:		2DD-S9					
STATION DESCRIPTION:		Flat Creek ~600m upstream of confluence with South McQuesten Rive					
Sampled by:		DIAND	DIAND	EPS	EPS	DIAND	DIAND
		74/8/14	74/9/5	75/6/6	75/7/9	75/8/12	78/5/30
Ag	Total						
Ag	Total						
As	Total						
B	Total						
Ba	Total						
Be	Total						
Ca	Total						
Cd	Total						
Co	Total						
Cr	Total						
Cu	Total						
Cu	Total						
Fe	Total						
Fe	Total						
Mg	Total						
Mn	Total						
Mo	Total						
Na	Total						
Ni	Total						
P	Total						
Pb	Total						
Pb	Total						
Sb	Total						
Se	Total						
Si	Total						
Sn	Total						
Sr	Total						
Ti	Total						
V	Total						
Zn	Total						
Zn	Total						
CN							

STATION NUMBER:		2DD-S9					
STATION DESCRIPTION:		Flat Creek ~600m upstream of confluence with South McQuesten Rive					
	Sampled by:	DIAND	EPS	EPS	EPS	DIAND	EPS
		78/7/14	80/8/5	80/8/6	80/8/7	83/9/22	85/7/9
Ag	Total						
Ag	Total						
As	Total						
B	Total						
Ba	Total						
Be	Total						
Ca	Total						
Cd	Total						
Co	Total						
Cr	Total						
Cu	Total						
Cu	Total						
Fe	Total						
Fe	Total						
Mg	Total						
Mn	Total						
Mo	Total						
Na	Total						
Ni	Total						
P	Total						
Pb	Total						
Pb	Total						
Sb	Total						
Se	Total						
Si	Total						
Sn	Total						
Sr	Total						
Ti	Total						
V	Total						
Zn	Total						
Zn	Total						
CN			<0.03	<0.03	<0.03		

United Keno Hill Mines Limited

STATION NUMBER:		2DD-S9					
STATION DESCRIPTION:		Flat Creek ~600m upstream of confluence with South McQuesten Rive					
	Sampled by:	EPS	DIAND	EPS	EPS	PC-B	EPS
		85/8/21	85/11/27	86/6/17	90/7/24	90/8/31	90/9/19
Ag	Total				0.0005	<0.005	0.0012
Ag	Total						
As	Total						
B	Total						
Ba	Total						
Be	Total						
Ca	Total						
Cd	Total						
Co	Total						
Cr	Total						
Cu	Total				0.0029	0.004	0.0022
Cu	Total						
Fe	Total				0.137	0.195	0.150
Fe	Total						
Mg	Total						
Mn	Total						
Mo	Total						
Na	Total						
Ni	Total						
P	Total						
Pb	Total				0.0126	0.012	0.0161
Pb	Total						
Sb	Total						
Se	Total						
Si	Total						
Sn	Total						
Sr	Total						
Ti	Total						
V	Total						
Zn	Total				0.087	0.112	0.254
Zn	Total						
CN							

United Keno Hill Mines Limited

STATION NUMBER:		2DD-S9		
STATION DESCRIPTION:		Flat Creek ~600m upstream of conf		
	Sampled by:	EPS	DIAND	DIAND
		95/4/12	95/5/16	95/8/3
Ag	Total	<0.01		
Ag	Total		<0.001	<0.001
As	Total		<0.02	<0.02
B	Total			
Ba	Total		0.0164	0.0251
Be	Total		<0.0002	<0.0002
Ca	Total		42.9	70.5
Cd	Total		0.0015	<0.0005
Co	Total		<0.001	<0.001
Cr	Total		<0.001	<0.001
Cu	Total	0.0015		
Cu	Total		0.017	0.015
Fe	Total	0.26		
Fe	Total		0.336	0.141
Mg	Total		11.5	19.8
Mn	Total		0.11	0.053
Mo	Total		<0.005	<0.005
Na	Total		1.24	2.15
Ni	Total		0.002	0.002
P	Total		<0.06	<0.05
Pb	Total	<0.06		
Pb	Total		0.04	<0.01
Sb	Total		<0.02	<0.02
Se	Total		<0.02	0.03
Si	Total		1.56	2.06
Sn	Total		<0.01	<0.01
Sr	Total		0.1	0.14
Ti	Total		0.002	<0.001
V	Total		<0.002	<0.002
Zn	Total	0.033	0.241	0.069
Zn	Total		0.241	0.069
CN				

ANALYSIS NUMBER: 2DD-S9																
ANALYSIS DESCRIPTION: Flat Creek approximately 600m upstream of the confluence with the South McQuesten River																
SAMPLER	DATE	FLOW (L/s)	TEMP (oC)	pH		COND (umhos/cm)		NFR	Ag	Cd	Cu	Fe	Mn	Pb	Zn	CN
				lab	insitu	lab	Ext									
HM	81/10/19		0.1		9.18			8	0.00	0.020	0.010	0.390	0.000	0.01	0.560	<0.01
HM	81/11/16		0.1		8.07			5	0.00	0.190	0.010	0.260	0.000	0.01	0.010	<0.01
HM	81/12/16		0.1		7.65			9	0.00	0.010	0.010	0.400	0.000	0.01	0.480	<0.01
HM	82/4/26		0.0		7.49			6	0.00	0.010	0.070	0.180	0.000	0.01	3.200	<0.01
HM	82/5/25		4.0		8.11			9	0.00	0.010	0.030	0.420	0.000	0.01	0.450	<0.01
HM	82/6/17		15.0		8.04			7	0.00	0.010	0.010	0.360	0.000	0.01	0.260	<0.01
HM	82/7/19		14.0		7.87			5	0.00	0.020	0.010	0.430	0.000	0.01	0.130	<0.01
HM	82/8/11		0.0		7.89			2	0.00	0.010	0.020	0.510	0.000	0.01	0.290	<0.01
HM	82/8/28		6.0		7.86			2	0.00	0.010	0.010	0.290	0.000	0.01	0.540	<0.01
HM	82/10/20		4.0		7.81			2	0.00	0.020	0.020	0.430	0.000	0.01	0.600	0.00
HM	82/12/14		2.0		7.70			46	0.00	<0.01	0.030	0.310	0.000	<0.01	0.290	<0.01
HM	83/6/22		0.0		7.30			0	0.00	0.090	0.020	0.120	0.000	0.02	0.210	0.00
HM	83/7/27		0.0		7.79			10	<0.01	0.010	0.030	0.160	0.000	0.01	<0.01	0.00
HM	83/8/25		12.0		8.02			8	<0.01	<0.01	0.010	0.410	0.000	0.01	0.500	0.00
HM	83/9/22		0.0		8.03			5	<0.01	0.010	<0.01	0.450	0.000	<0.01	2.020	0.00
HM	83/10/27		2.0		7.95			6	<0.01	0.010	<0.01	0.540	0.000	<0.01	1.100	0.00
HM	83/12/13		0.0		7.38			5	<0.01	<0.01	<0.01	0.140	0.000	<0.01	0.020	0.00
HM	84/1/4		0.0		7.40		660	<1	0.00	<0.01	<0.01	0.010	0.000	<0.01	0.010	0.00
HM	84/1/26		0.0		7.20			0	<0.01	<0.01	0.010	2.600	0.000	0.41	0.150	0.00
HM	84/3/28		0.0					0	0.00	0.000	0.000	0.000	0.000	0.00	0.000	0.00
HM	84/6/4		7.0		7.37			4	<0.01	0.010	<0.01	0.140	0.000	<0.01	0.200	0.00
HM	84/6/27		12.0		7.79			5	<0.01	<0.01	<0.01	0.340	0.000	<0.01	0.260	0.00
HM	84/7/25		0.0		7.05			4	<0.01	<0.01	<0.01	0.420	0.000	<0.01	0.220	0.00
HM	84/9/27		0.0		7.22			4	<0.01	0.020	0.010	0.490	0.000	<0.01	0.240	0.00
HM	84/11/3		0.0					0	0.00	0.000	0.000	0.000	0.000	<0.01	0.000	0.00
HM	85/5/29		0.0		8.15			5	<0.01	<0.01	0.010	0.700	0.000	<0.01	0.390	0.00
HM	85/6/26		0.0		7.79			<1	<0.01	0.010	0.010	0.500	0.000	0.01	0.320	0.00
HM	85/7/31		0.0		8.02			2	<0.01	0.020	<0.01	0.380	0.000	0.01	0.160	0.00
HM	85/9/6		3.0		8.01			<1	<0.01	0.010	<0.01	0.330	0.000	<0.01	0.160	0.00
HM	85/10/17		0.0		7.94			1	0.00	<0.01	<0.01	0.260	0.000	<0.01	0.420	0.00
HM	85/11/27		0.0		7.40		670	10	0.00	0.010	0.020	0.230	0.000	0.01	0.090	0.00
HM	86/2/4		0.0		7.69		665	<1	0.00	<0.01	<0.01	0.080	0.000	<0.01	0.020	0.00
HM	86/5/28		0.0		7.70		147	7	<0.01	0.010	<0.01	0.510	0.000	0.01	0.280	0.00
HM	86/7/1		0.0		8.03		620	<1	<0.01	0.020	<0.01	0.220	0.000	<0.01	0.060	0.00
HM	86/7/31		0.0		7.52		660	3	<0.01	0.010	<0.01	0.330	0.000	<0.01	0.090	0.00
HM	86/9/3		0.0		8.06		575	8	0.00	0.010	0.010	0.540	0.000	<0.01	0.320	0.00
HM	86/10/12		0.0		8.22		820	13	0.00	<0.01	0.010	0.550	0.000	<0.5	0.360	0.00

ATION NUMBER: 2DD-S9

ATION DESCRIPTI Flat Creek approximately 600m upstream of the confluence with the South McQuesten River

SAMPLER	DATE	FLOW (L/s)	TEMP (°C)	pH		COND (umhos/cm)		NFR	Ag	Cd	Cu	Fe	Mn	Pb	Zn	CN
				lab	insitu	lab	insitu									
HM	86/11/1		0.0	8.05		950		<1	0.00	0.010	0.030	0.350	0.000	<0.5	0.420	0.00
HM	87/6/4		6.0	7.66		213		13	0.00	0.010	0.010	1.380	0.000	0.13	0.530	0.00
HM	87/7/16		0.0	8.14		220		4	0.00	<0.01	<0.01	0.250	0.000	<0.01	0.230	0.00
HM	87/8/4		12.0	8.19		790		4	0.00	0.010	<0.01	30.000	0.000	<0.01	0.060	0.00
HM	87/9/24		2.0	7.99		475		4	0.00	0.010	<0.01	0.310	0.000	<0.01	0.330	0.00
HM	87/10/16		1.0	7.64		540		2	0.00	<0.01	<0.01	0.240	0.000	0.01	0.480	0.00
HM	89/5/4		5.0	7.87		140		0	0.00	0.000	0.010	0.120	0.340	0.00	0.470	0.00
HM	89/5/31		14.0	7.53		300		40	0.00	0.000	0.000	0.000	0.080	0.00	0.210	0.00
HM	89/7/3		14.0	8.00		650		20	0.00	0.010	0.000	0.100	0.110	0.39	0.140	0.00
HM	89/7/30		12.0	8.12		350		0	0.00	0.010	0.040	0.410	0.100	0.11	0.240	0.00
HM	89/9/13		9.0	8.38		560		6	0.00	0.000	0.010	0.410	0.010	0.00	0.250	0.00
HM	89/10/16		1.0	8.19		440		2	0.00	0.010	0.000	0.030	0.390	0.00	0.280	0.00
HM	89/11/14		0.0			620		56	0.00	0.000	0.080	0.400	0.330	0.01	0.510	0.00
HM	89/12/27		0.0			440		14	0.00	0.000	0.000	0.000	0.040	0.00	0.110	0.00
HM	90/2/2		0.0	7.67		360		4	0.00	0.010	0.000	0.010	0.010	0.00	0.040	0.00
HM	90/4/1		1.0	7.37		390		12	0.00	0.010	0.000	0.170	0.030	0.00	0.010	0.00
HM	90/4/28		3.0	7.43		540		28	0.00	0.000	0.040	0.190	0.030	0.00	0.010	0.00
HM	90/5/19		10.8	7.10		160		8	0.00	0.000	0.000	0.300	0.010	0.02	0.210	0.00
HM	90/7/4		11.0	7.87		345		24	0.00	0.010	0.010	0.110	0.060	0.08	0.000	0.00
HM	90/8/2		10.0	7.87		480		4	0.00	0.000	0.010	0.190	0.020	0.08	0.000	0.00
HM	90/8/31		10.0	8.01		386		32	0.00	0.010	0.010	0.240	0.020	0.06	0.030	0.00
HM	90/9/28		6.0	7.89		340		16	0.00	0.010	0.020	0.230	0.010	0.51	0.080	0.00
HM	90/10/30		0.5	7.94		610		24	0.00	<0.01	<0.01	0.140	0.110	0.50	<0.01	0.00
HM	90/11/30		0.5	7.80		880		20	0.00	<0.01	<0.01	0.260	0.140	0.01	<0.01	0.00
HM	90/12/20		0.5	7.60		580		16	0.00	<0.01	<0.01	0.240	0.080	0.01	<0.01	0.00
HM	91/4/29		10.0	7.93		160		12	0.00	0.020	0.050	0.090	0.070	<0.01	<0.01	0.00
HM	91/5/22		8.3	7.30		198		8	0.00	0.030	<0.01	0.330	<0.01	0.04	0.170	0.00
HM	91/6/22		14.0	8.16		240		8	0.00	0.030	0.020	0.750	<0.01	0.06	0.060	0.00
HM	91/7/31		10.0	7.77		260		4	0.00	0.180	0.020	0.220	0.010	<0.01	0.170	0.00
HM	91/8/20		9.0	8.01		260		8	0.00	0.010	0.010	0.140	0.020	<0.01	0.140	0.00
HM	91/9/16		7.0	7.74		320		8	0.00	0.040	<0.01	0.150	0.050	<0.01	0.020	0.00
HM	91/10/23		1.0	7.16		310		12	0.00	<0.01	0.020	0.880	<0.01	0.01	0.240	0.00
HM	91/11/19		1.0	7.52		300		8	0.00	<0.01	<0.01	1.060	<0.01	0.02	0.130	0.00
HM	91/12/16		0.5	7.54		300		12	0.00	0.020	0.010	0.070	0.030	<0.01	1.490	0.00
HM	92/1/24		0.5	7.36		300		8	0.00	<0.01	<0.01	0.100	0.010	0.01	0.360	0.00
HM	92/2/27		0.5	7.71		320		8	0.00	<0.01	<0.01	0.040	<0.01	0.02	0.020	0.00
HM	92/3/20		0.5	7.71		320		8	0.00	<0.01	<0.01	0.010	0.010	<0.01	0.020	0.00

STATION NUMBER: 2DD-S9																
STATION DESCRIPTI Flat Creek approximately 600m upstream of the confluence with the South McQuesten River																
SAMPLER	DATE	FLOW	TEMP	pH	COND (umhos/cm)		NFR	Ag	Cd	Cu	Fe	Mn	Pb	Zn	CN	
		(L/s)	(oC)	lab	insitu	lab		Ext	Ext	Ext	Ext	Ext	Ext			
UKHM	92/4/23		1.0	7.36		410	4	0.00	<0.01	0.010	0.010	<0.01	0.01	0.040	0.00	
UKHM	92/6/25		6.0	7.39		240	8	0.00	<0.01	0.010	0.060	<0.01	0.01	0.130	0.00	
UKHM	92/7/29		8.0	7.63		450	8	0.00	<0.01	0.020	0.020	<0.01	0.01	0.140	0.00	
UKHM	92/8/28		7.0	7.18		450	16	0.00	<0.01	0.020	0.020	<0.01	<0.01	0.180	0.00	
UKHM	92/10/5		2.0	7.58		400	12	0.00	0.020	0.020	0.080	0.240	0.03	0.030	0.00	
UKHM	92/10/28		1.0	7.80		813	8	0.00	0.020	0.020	0.100	0.010	0.05	0.010	0.00	
UKHM	92/11/18		0.1	7.48		460	4	0.00	0.010	<0.01	0.160	0.150	0.04	0.020	0.00	
UKHM	92/12/14		0.1	7.53		605	8	0.00	<0.01	0.020	0.020	0.030	0.02	<0.01	0.00	
UKHM	93/1/29		0.1	7.52		420	8	0.00	<0.01	0.020	0.790	0.010	0.01	0.010	0.00	
UKHM	93/2/24		1.0	7.64		380	8	0.00	<0.01	0.010	0.350	0.010	0.01	0.010	0.00	
UKHM	93/3/22		1.0	7.50		430	8	0.00	<0.01	0.020	0.110	<0.01	0.01	0.030	0.00	
UKHM	93/4/24		2.0	7.41		420	12	0.00	0.020	0.010	0.080	<0.01	0.01	0.020	0.00	
UKHM	93/5/26		5.0	7.45		220	0	0.00	0.010	0.010	0.070	<0.01	<0.01	0.130	0.00	
UKHM	93/6/28		6.0	7.40		500	0	0.00	0.010	<0.01	0.170	0.010	0.01	0.010	0.00	
UKHM	93/7/21		12.9	8.30		644	8	0.00	<0.01	0.010	0.120	0.010	0.01	0.010	0.00	
UKHM	93/8/25		5.0	8.20		580	4	0.00	0.010	0.020	0.010	<0.01	0.01	0.020	0.00	
UKHM	93/9/29		1.0	7.70		420	4	0.00	0.010	0.010	0.180	0.150	<0.01	0.060	0.00	
UKHM	93/10/26		1.0	7.60		410	8	0.00	0.010	0.010	0.130	0.020	0.01	0.090	0.00	
UKHM	93/11/25		1.0	7.50		410	4		0.010	0.010	0.060	0.020	0.01	0.090		
UKHM	93/12/16		1.0	7.60		410	4		0.010	0.010	0.040	0.040	0.01	0.090		
UKHM	94/1/27		1.0	7.80		360	4		<0.01	<0.01	0.050	0.040	<0.01	0.030		
UKHM	94/2/24		1.0	7.60		350	8		0.010	0.010	0.170	0.060	0.01	0.100		
UKHM	94/3/28		2.0	7.60		410	4		<0.01	0.010	0.070	0.040	0.02	0.070		
UKHM	94/4/23		3.0	7.90		390	8		0.010	0.010	0.150	0.040	0.02	0.040		
UKHM	94/6/1		6.2	7.80		270	12	0.00	<0.01	<0.01	0.160	0.240	0.08	0.070		
UKHM	94/6/27		9.0	7.80		480	4	0.00	0.040	0.060	0.110	0.040	0.18	0.060		
UKHM	94/7/29		14.2	8.20		660	8	0.00	<0.01	0.010	0.430	0.350	0.10	0.100		
UKHM	94/10/31	32.0	0.6	7.8		460	0		<0.001	<0.002	0.4	0.066	<0.005	0.078		
UKHM	94/11/29	32.0	0.6	7.48		520	0		0.001	<0.002	0.02	0.052	0.015	0.046		
UKHM	95/1/1	38.0	0.5	7.93		660	0		<0.001	<0.002	0.2	0.038	<0.005	0.038		
UKHM	95/2/6	38.0	1	7.2		640	0		<0.001	<0.002	0.2	0.05	0.01	0.12		
UKHM	95/3/29	38.0	2	5.3		920	0		0.014	0.002	0.6	0.1	0.015	0.034		
UKHM	95/4/27	38.0	2	8.24		330	0		0.004	0.002	0.2	0.39	0.03	0.46		
UKHM	95/5/3	38.0	2	8.3		740	12		0.002	0.006	0.4	0.14	0.07	0.29		
UKHM	95/6/6	35.0	9	7		460	20		<0.001	0.002	0.2	0.026	0.02	0.105		
UKHM	95/8/11	100.9	9	7.84		380	4		0.001	0.002	0.2	0.04	0.015	0.088		
UKHM	95/9/3	0.3	8	8.08		640	0		0.001	0.002	0.2	0.05	<0.005	0.1		

STATION NUMBER: 2DD-S10**STATION DESCRIPTION: South McQuesten River at the Freshwater Pump house**

Sampled by:			LES	LES	LES	LES	LES	LES
			94-7-28	94-9-6	94-10-28	95-7-14	95-7-14	95-9-7
Flow	L/s	1000	3264.2	1892.7	0	3329.6	3329.6	4434.5
Water	Temp oC		14.8	8.5	0.2	16.2	16.2	8.4
Dissolved	oxygen mg/L		10.0	13.3	11.8			
Hydroxide	CaCO ₃				< 5.	< 1.	< 1.	< 5.
Carbonate	CaCO ₃				< 5.	< 1.	< 1.	< 5.
Bicarb.	CaCO ₃				119	96	96	89
Total Alk.	CaCO ₃		109	102	119	96	96	89
Colour	TCU		5					
Conduct.	In-situ		274	299	341	270	270	273
	uS/cm lab		295					280
pH	In-situ		7.99	8.20	7.89	8.32	8.32	7.51
	lab		8.1	8.1	8.1	8.2	8.2	7.9
Turbidity	FTU		< 1.					
NFR			5	5	5	5	5	5
TDS			197	226	228	214	212	233.00
Chloride	Cl		< 1.					
Fluoride	F		< 1.					
Nitrate	NO ₃ -N		< 0.5					
Nitrite	NO ₂ -N		< 1.					
Sulfate	SO ₄		52.6			58	54.5	59.6
Ammonia	NH ₃ -N		< 0.05					
Total	CN		< 0.005					

STATION NUMBER: 2DD-S10			STATION DESCRIPTION: South McQuesten River at the Freshwater Pump house					
Sampled by:			LES	LES	LES	LES	LES	LES
			94-7-28	94-8-6	94-10-28	95-7-14	95-7-14	95-9-7
Aluminum	Al	Diss.	0.05	0.03	0.02	0.05	0.05	0.06
Antimony	Sb	Diss.	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	< 0.02
Arsenic	As	Diss.	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	< 0.02
Barium	Ba	Diss.	0.0569	0.0557	0.0542	0.0529	0.0523	0.0507
Beryllium	Be	Diss.	< 0.0002	<0.0002	0.0002	< 0.0002	< 0.0002	< 0.0002
Bismuth	Bi	Diss.	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	< 0.02
Cadmium	Cd	Diss.	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Calcium	Ca	Diss.	44.2	44.6	42.9	40.3	39.8	43.4
Chromium	Cr	Diss.	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001
Cobalt	Co	Diss.	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001
Copper	Cu	Diss.	0.002	0.002	0.005	0.01	0.01	0.003
Iron	Fe	Diss.	0.052	0.065	0.057	0.04	0.036	0.035
Lead	Pb	Diss.	0.001	0.01	0.01	0.01	0.01	0.005
Lithium	Li	Diss.	0.002	0.002	0.002	0.002	0.004	0.003
Magnesium	Mg	Diss.	12.4	13.5	12.5	12.2	12	13.2
Manganese	Mn	Diss.	0.034		0.042	0.032	0.031	0.0446
Molybdenum	Mo	Diss.	< 0.005	<0.005	< 0.005	< 0.005	< 0.005	< 0.005
Nickel	Ni	Diss.	0.003	0.004	0.003	0.004	0.006	0.008
Phosphorus	P	Diss.	< 0.06	<0.06	< 0.06	< 0.06	< 0.06	0.2
Potassium	K	Diss.	0.4	0.5	0.3	< 0.2	< 0.2	0.4
Selenium	Se	Diss.	< 0.001	<0.02	< 0.02	< 0.02	< 0.02	< 0.02
Silicon	Si	Diss.	1.68	1.78	1.91	1.64	1.63	2.08
Silver	Ag	Diss.	< 0.0001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001
Sodium	Na	Diss.	1.37	1.61	1.6	1.41	1.38	1.62
Strontium	Sr	Diss.	0.17	0.17	0.17	0.16	0.16	0.166
Sulfur	S	Diss.	17.7	20.1	16.8	17.7	17.6	19
Tin	Sn	Diss.	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.005
Titanium	Ti	Diss.	< 0.001	<0.001	0.002	< 0.001	< 0.001	< 0.001
Thorium	Th	Diss.	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.005
Uranium	U	Diss.	< 0.07	<0.07	< 0.07	< 0.07	< 0.07	< 0.06
Vanadium	V	Diss.	< 0.002	<0.002	0.002	< 0.002	< 0.002	< 0.002
Zinc	Zn	Diss.	0.025	0.014	0.022	0.019	0.019	0.038
Zirconium	Zr	Diss.	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001

STATION NUMBER: 2DD-S10

STATION DESCRIPTION: South McQuesten River at the Freshwater Pumphouse

Sampled by:

LES

LES

LES

LES

LES

LES

			94-7-28	94-9-6	94-10-28	95-7-14	95-7-14	95-9-7
Aluminum	Al	Total	0.06	0.04	0.02	0.06	0.07	
Antimony	Sb	Total	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	
Arsenic	As	Total	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	
Barium	Ba	Total	0.0569	0.0584	0.0562	0.0529	0.0554	
Beryllium	Be	Total	< 0.0002	<0.0002	0.0003	< 0.0002	< 0.0002	
Bismuth	Bi	Total	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	
Cadmium	Cd	Total	0.0005	<0.0005	< 0.0005	< 0.0005	< 0.0005	
Calcium	Ca	Total	44.4	44.8	46	40.5	40.6	
Chromium	Cr	Total	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	
Cobalt	Co	Total	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	
Copper	Cu	Total	0.004	0.003	0.009	0.011	0.012	
Iron	Fe	Total	0.124	0.157	0.157	0.195	0.118	
Lead	Pb	Total	0.001	0.01	0.01	0.01	0.01	
Lithium	Li	Total	< 0.002	<0.002	0.003	0.003	0.004	
Magnesium	Mg	Total	12.8	13.4	13.2	12.7	12.3	
Manganese	Mn	Total	0.038		0.045	0.041	0.043	
Molybdenum	Mo	Total	< 0.005	<0.005	< 0.005	< 0.005	< 0.005	
Nickel	Ni	Total	0.003	0.005	0.004	0.006	0.005	
Phosphorus	P	Total	< 0.06	<0.06	< 0.06	< 0.06	< 0.06	
Potassium	K	Total	0.4	0.5	0.6	< 0.2	< 0.2	
Selenium	Se	Total	< 0.001	<0.02	< 0.02	< 0.02	< 0.02	
Silicon	Si	Total	1.67	1.86	1.95	1.64	1.72	
Silver	Ag	Total	< 0.0001	<0.001	< 0.001	< 0.001	< 0.001	
Sodium	Na	Total	1.37	1.62	1.66	1.44	1.41	
Strontium	Sr	Total	0.17	0.17	0.17	0.17	0.16	
Sulfur	S	Total	17.5	20.7	18.6	17.9	18.1	
Tin	Sn	Total	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	
Titanium	Ti	Total	< 0.001	<0.001	0.002	< 0.001	< 0.001	
Thorium	Th	Total	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	
Uranium	U	Total	< 0.07	<0.07	< 0.07	< 0.07	< 0.07	
Vanadium	V	Total	0.003	<0.002	0.005	< 0.002	< 0.002	
Zinc	Zn	Total	0.027	0.017	0.027	0.021	0.024	
Zirconium	Zr	Total	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	

STATION NUMBER:		2DD-S10					
STATION DESCRIPTION:		South McQuesten River at the Freshwater Pumphouse					
Sampled by:		DIAND	DIAND	DIAND	DIAND	DIAND	DIAND
DATE		69/7/15	70/1/3	70/2/28	70/3/31	70/5/19	70/6/11
FLOW	(m ³ /s)						
TEMP	(°C)	14.0					
pH	insitu						
	lab	7.90	7.90	8.30	8.10	7.20	7.70
COND	insitu						
(umhos/cm)	lab						
DISSOLVED	OXYGEN						
COLOUR	(FTU)	5					
TURBIDITY	(FTU)	0.6	12.0		0.9	4.0	3.5
T. Alkalinity	CaCO ₃	91	102	149	163	45	74
T. Hardness	CaCO ₃	132	162	204			
Sulphate		40.0	62.0	58.5	57.9	43.0	28.0
Cl		0.4	2.0	1.5	1.2	0.5	0.4
PO ₄							
NO ₂							
NO ₃							
NH ₃							
NFR							
Ag	Ext						
As	Ext						
B	Ext						
Ba	Ext						
Be	Ext						
Ca	Ext						
Cd	Ext						
Co	Ext						
Cr	Ext						
Cu	Ext	0.001	<0.01	<0.01	0.02	0.01	<0.01
Fe	Ext	0.24	0.17	0.14	0.1	0.53	0.73
Mg	Ext						
Mn	Ext						
Mo	Ext						
Na	Ext						
Ni	Ext						
P	Ext						
Pb	Ext	0.01	<0.04	<0.03	0.01		0.04
Sb	Ext						
Se	Ext						
Si	Ext						
Sn	Ext						
Sr	Ext						
Ti	Ext						
V	Ext						
Zn	Ext	0.05	0.01	0.02	0.05	0.13	0.13

STATION NUMBER:		2DD-S10					
STATION DESCRIPTION:		South McQuesten River at the Freshwater Pumphouse					
Sampled by:		DIAND	DIAND	DIAND	DIAND	DIAND	DIAND
DATE		69/7/15	70/1/31	70/2/28	70/3/31	70/5/19	70/6/11
Ag	Diss						
As	Diss						
B	Diss						
Ba	Diss						
Be	Diss						
Ca	Diss						
Cd	Diss						
Co	Diss						
Cr	Diss						
Cu	Diss						
Fe	Diss						
Mg	Diss						
Mn	Diss						
Mn	Diss						
Mo	Diss						
Na	Diss						
Ni	Diss						
P	Diss						
Pb	Diss						
Sb	Diss						
Se	Diss						
Si	Diss						
Sn	Diss						
Sr	Diss						
Ti	Diss						
V	Diss						
Zn	Diss						
Zn	Diss						
Cd	Total						
Cu	Total						
Fe	Total						
Mn	Total						
Pb	Total						
Zn	Total						
CN							

STATION NUMBER: 2DD-S10		STATION DESCRIPTION: South McQuesten River at the Freshwater Pump house					
Sampled by:		DIAND	DIAND	DIAND	DIAND	DIAND	DIAND
DATE		70/7/16	71/2/26	71/3/26	73/6/23	73/7/17	73/7/28
FLOW	(m ³ /s)						
TEMP	(°C)				12.5		19.0
pH	insitu						
	lab	7.90	8.20		7.60	8.10	8.10
COND	insitu						
(umhos/cm)	lab				187	206	1000
DISSOLVED	OXYGEN						
COLOUR	(FTU)						
TURBIDITY	(FTU)	1.0	1.2		3.2	4.4	16.0
T. Alkalinity	CaCO ₃	93			70.8	78	79.4
T. Hardness	CaCO ₃	126			97.9	110	535
Sulphate		37.5			24.5	27.2	437.0
Cl		0.3					
PO ₄							
NO ₂							
NO ₃							
NH ₃							
NFR					15	41	6
Ag	Ext						
As	Ext				0.009	<0.005	
B	Ext						
Ba	Ext						
Be	Ext						
Ca	Ext						
Cd	Ext						
Co	Ext						
Cr	Ext						
Cu	Ext	<0.01	0.002		0.002	0.005	0.12
Fe	Ext	0.13	0.14	0.17	0.47	0.34	0.48
Mg	Ext						
Mn	Ext						
Mo	Ext						
Na	Ext						
Ni	Ext						
P	Ext						
Pb	Ext	0.01		0.02	0.008	<0.001	0.2
Sb	Ext						
Se	Ext						
Si	Ext						
Sn	Ext						
Sr	Ext						
Ti	Ext						
V	Ext						
Zn	Ext	0.06	0.04	0.57	0.06	0.04	1.08

STATION NUMBER:		2DD-S10					
STATION DESCRIPTION:		South McQuesten River at the Freshwater Pumphouse					
Sampled by:		DIAND	DIAND	DIAND	DIAND	DIAND	DIAND
DATE		70/7/16	71/2/26	71/3/26	73/6/23	73/7/17	73/7/28
Ag	Diss						
As	Diss						
B	Diss						
Ba	Diss						
Be	Diss						
Ca	Diss						
Cd	Diss						
Co	Diss						
Cr	Diss						
Cu	Diss						
Fe	Diss						
Mg	Diss						
Mn	Diss						
Mn	Diss						
Mo	Diss						
Na	Diss						
Ni	Diss						
P	Diss						
Pb	Diss						
Sb	Diss						
Se	Diss						
Si	Diss						
Sn	Diss						
Sr	Diss						
Ti	Diss						
V	Diss						
Zn	Diss						
Zn	Diss						
Cd	Total						
Cu	Total						
Fe	Total						
Mn	Total						
Pb	Total						
Zn	Total						
CN							

STATION NUMBER:		2DD-S10					
STATION DESCRIPTION:		South McQuesten River at the Freshwater Pumphouse					
Sampled by:		DIAND	DIAND	DIAND	DIAND	DIAND	DIAND
DATE		73/8/6	73/8/14	73/9/4	73/10/31	73/12/8	74/3/12
FLOW	(m ³ /s)						
TEMP	(°C)	6.5					
pH	insitu						
	lab	7.80	7.90	8.00	8.50	7.90	7.80
COND	insitu						
(umhos/cm)	lab	224	199	223	264	347	637
DISSOLVED	OXYGEN						
COLOUR	(FTU)						
TURBIDITY	(FTU)	0.2	1.4	0.5	1.3	3.0	0.6
T. Alkalinity	CaCO ₃	90.2	75	85.3	102	131	228
T. Hardness	CaCO ₃	125	107	118	149	181	549
Sulphate		31.5	29.2	29.4	35.3	48.9	129.0
Cl							
PO ₄							
NO ₂							
NO ₃							
NH ₃							
NFR							
Ag	Ext						
As	Ext					0.005	<0.005
B	Ext						
Ba	Ext						
Be	Ext						
Ca	Ext						
Cd	Ext						
Co	Ext						
Cr	Ext						
Cu	Ext	0.002	0.004	0.001	0.001	0.013	0.004
Fe	Ext	0.41	0.37	0.4	0.13	1.8	0.85
Mg	Ext						
Mn	Ext		0.11	0.05	0.03	0.32	0.21
Mo	Ext						
Na	Ext						
Ni	Ext						
P	Ext						
Pb	Ext	0.013	0.003	0.004	<0.001	0.12	0.001
Sb	Ext						
Se	Ext						
Si	Ext						
Sn	Ext						
Sr	Ext						
Ti	Ext						
V	Ext						
Zn	Ext	0.03	0.1	0.035	0.02	0.16	0.008

STATION NUMBER:		2DD-S10					
STATION DESCRIPTION:		South McQuesten River at the Freshwater Pumphouse					
Sampled by:		DIAND	DIAND	DIAND	DIAND	DIAND	DIAND
DATE		73/8/6	73/8/14	73/9/4	73/10/31	73/12/8	74/3/12
Ag	Diss						
As	Diss						
B	Diss						
Ba	Diss						
Be	Diss						
Ca	Diss						
Cd	Diss						
Co	Diss						
Cr	Diss						
Cu	Diss						
Fe	Diss						
Mg	Diss						
Mn	Diss						
Mn	Diss						
Mo	Diss						
Na	Diss						
Ni	Diss						
P	Diss						
Pb	Diss						
Sb	Diss						
Se	Diss						
Si	Diss						
Sn	Diss						
Sr	Diss						
Ti	Diss						
V	Diss						
Zn	Diss						
Zn	Diss						
Cd	Total						
Cu	Total						
Fe	Total						
Mn	Total						
Pb	Total						
Zn	Total						
CN							

STATION NUMBER:		2DD-S9		
STATION DESCRIPTION:		Flat Creek ~600m upstream of conf		
	Sampled by:	EPS	DIAND	DIAND
		95/4/12	95/5/16	95/8/3
FLOW	(L/s)			
TEMP	(°C)		4.7	9.6
pH	insitu		7.8	8.2
	lab	7.84	7.8	8.1
COND	insitu		320	626
(umhos/cm)	lab	494	280	590
DISSOLVED	OXYGEN			
COLOUR	(FTU)			
TURBIDITY	(FTU)		4	2
T. Alkalinity	CaCO ₃	167	69	164
T. Hardness	CaCO ₃	243	155	258
Sulphate		85.9	86	133
Cl		2.37	<1	<3
PO ₄		0.003		
NO ₂		<0.005	<2	<5
NO ₃		0.106	<0.2	<0.5
NH ₃		0.005	<0.05	<0.05
NFR		<10	<5	<5
Ag	Ext			
As	Ext			
B	Ext			
Ba	Ext			
Be	Ext			
Ca	Ext			
Cd	Ext			
Co	Ext			
Cr	Ext			
Cu	Ext			
Fe	Ext			
Mg	Ext			
Mn	Ext			
Mo	Ext			
Na	Ext			
Ni	Ext			
P	Ext			
Pb	Ext			
Sb	Ext			
Se	Ext			
Si	Ext			
Sn	Ext			
Sr	Ext			
Ti	Ext			
V	Ext			
Zn	Ext			

STATION NUMBER:		2DD-S10					
STATION DESCRIPTION:		South McQuesten River at the Freshwater Pumphouse					
	Sampled by:	DIAND	DIAND	DIAND	DIAND	DIAND	DIAND
DATE		74/4/4	74/6/11	74/7/3	74/8/14	74/9/5	74/12/4
FLOW	(m ³ /s)						
TEMP	(°C)	2.0					0.0
pH	insitu						
	lab	7.80	7.80	8.10	8.00	8.00	7.8
COND	insitu						
(umhos/cm)	lab	1340	212	227	217	255	664
DISSOLVED	OXYGEN						
COLOUR	(FTU)						
TURBIDITY	(FTU)	0.4	0.9	0.4	1.0	0.9	10
T. Alkalinity	CaCO ₃	502	82.8	86.3	83.5	95.5	132
T. Hardness	CaCO ₃	776	112	119	115	135	339
Sulphate		308.0	25.0	28.6	28.7	36.0	172
Cl							
PO ₄							
NO ₂							
NO ₃							
NH ₃							
NFR							
Ag	Ext						
As	Ext	<0.005					
B	Ext						
Ba	Ext						
Be	Ext						
Ca	Ext						
Cd	Ext						
Co	Ext						
Cr	Ext						
Cu	Ext	0.002	0.002	0.001	0.006	0.001	<0.001
Fe	Ext	0.44	0.28	0.15	0.15	0.13	1.2
Mg	Ext						
Mn	Ext	1.1	0.03	0.02	0.04	0.03	0.12
Mo	Ext						
Na	Ext						
Ni	Ext						
P	Ext						
Pb	Ext	0.001	0.004	<0.001	<0.001	0.001	0.001
Sb	Ext						
Se	Ext						
Si	Ext						
Sn	Ext						
Sr	Ext						
Ti	Ext						
V	Ext						
Zn	Ext	0.009	0.002	0.017	0.03	0.02	<0.001

STATION NUMBER: 2DD-S10		STATION DESCRIPTION: South McQuesten River at the Freshwater Pumphouse					
	Sampled by:	DIAND	DIAND	DIAND	DIAND	DIAND	DIAND
DATE		74/4/4	74/6/11	74/7/3	74/8/14	74/9/5	74/12/4
Ag	Diss						
As	Diss						
B	Diss						
Ba	Diss						
Be	Diss						
Ca	Diss						
Cd	Diss						
Co	Diss						
Cr	Diss						
Cu	Diss						
Fe	Diss						
Mg	Diss						
Mn	Diss						
Mn	Diss						
Mo	Diss						
Na	Diss						
Ni	Diss						
P	Diss						
Pb	Diss						
Sb	Diss						
Se	Diss						
Si	Diss						
Sn	Diss						
Sr	Diss						
Ti	Diss						
V	Diss						
Zn	Diss						
Zn	Diss						
Cd	Total						
Cu	Total						
Fe	Total						
Mn	Total						
Pb	Total						
Zn	Total						
CN							

STATION NUMBER: 2DD-S10		STATION DESCRIPTION: South McQuesten River at the Freshwater Pumpouse					
Sampled by:		DIAND	DIAND	DIAND	DIAND	DIAND	DIAND
DATE		75/1/22	75/5/8	75/6/19	75/7/16	78/5/30	78/7/11
FLOW	(m ³ /s)						
TEMP	(oC)			15.0		4.5	21.0
pH	insitu					7.6	8.6
	lab	8.00	7.90	7.90	8.10	7.70	
COND	insitu					110	285
(umhos/cm)	lab	411	205	184	204	210	
DISSOLVED	OXYGEN						
COLOUR	(FTU)				13	30	
TURBIDITY	(FTU)	1.1	1.6	1.0	1.5	1.9	
T. Alkalinity	CaCO ₃	163	68	69	80	76	
T. Hardness	CaCO ₃	217	99	100	111	104	
Sulphate		53.8	38.0	26.0		29.0	
Cl							
PO ₄						0.01	
NO ₂							
NO ₃							
NH ₃							
NFR					<5	<5	
Ag	Ext				<0.005	<0.005	
As	Ext				<0.0005	0.0010	
B	Ext						
Ba	Ext				0.13		
Be	Ext						
Ca	Ext					31.7	
Cd	Ext				0.0002	0.0005	
Co	Ext						
Cr	Ext						
Cu	Ext	<0.001	0.001	0.001	0.001	0.002	
Fe	Ext	0.18	0.39	0.29	0.13	0.47	
Mg	Ext					6.0	
Mn	Ext	0.05	0.09	0.02	0.03	0.07	
Mo	Ext				0.0006		
Na	Ext						
Ni	Ext				<0.001		
P	Ext						
Pb	Ext	0.001	0.016	0.006	0.002	0.006	
Sb	Ext						
Se	Ext				<0.0005		
Si	Ext						
Sn	Ext						
Sr	Ext						
Ti	Ext						
V	Ext						
Zn	Ext	0.02	0.06	0.02	0.021	0.05	

STATION NUMBER: 2DD-S10**STATION DESCRIPTION: South McQuesten River at the Freshwater Pumphouse**

DATE	Sampled by:	DIAND	DIAND	DIAND	DIAND	DIAND	DIAND
		75/1/22	75/5/8	75/6/19	75/7/16	78/5/30	78/7/11
Ag	Diss						
As	Diss						
B	Diss						
Ba	Diss						
Be	Diss						
Ca	Diss						
Cd	Diss						
Co	Diss						
Cr	Diss						
Cu	Diss						
Fe	Diss						
Mg	Diss						
Mn	Diss						
Mn	Diss						
Mo	Diss						
Na	Diss						
Ni	Diss						
P	Diss						
Pb	Diss						
Sb	Diss						
Se	Diss						
Si	Diss						
Sn	Diss						
Sr	Diss						
Ti	Diss						
V	Diss						
Zn	Diss						
Zn	Diss						
Cd	Total						
Cu	Total						
Fe	Total						
Mn	Total						
Pb	Total						
Zn	Total						
CN							

STATION NUMBER:		2DD-S10					
STATION DESCRIPTION:		South McQuesten River at the Freshwater Pumpouse					
Sampled by:		DIAND	DIAND	DIAND	EPS	EPS	EPS
DATE		83/9/22	85/5/23	85/11/27	86/4/25	86/7/24	86/9/19
FLOW	(m ³ /s)						
TEMP	(°C)	6.0			1.0	12.5	7.2
pH	insitu	8.1					
	lab	8.10	7.40	7.90			
COND	insitu	180					
(umhos/cm)	lab	291	155	415			
DISSOLVED	OXYGEN						
COLOUR	(FTU)	10	>100	10			
TURBIDITY	(FTU)	0.5	3.8	0.8			
T. Alkalinity	CaCO ₃	98	50	144			
T. Hardness	CaCO ₃	156	104	213	172	154	140
Sulphate		48.0	24.0	74.0	69.0	51.7	53.7
Cl				2.0			
PO ₄			0.060				
NO ₂		0.03	<0.005	<0.005			
NO ₃			0.015	0.149			
NH ₃		0.011	0.01	0.037			
NFR		<5	52	7			
Ag	Ext	<0.0005					
As	Ext	<0.05	<0.05	<0.05			
B	Ext		0.004	0.008			
Ba	Ext	0.052	0.05	0.068			
Be	Ext	<0.001	<0.001	<0.001			
Ca	Ext	42.8	24.1	55.1			
Cd	Ext	<0.002	<0.002	<0.002			
Co	Ext	<0.005	<0.005	<0.005			
Cr	Ext	0.005	<0.005	<0.005			
Cu	Ext	<0.005	<0.005	<0.005			
Fe	Ext	0.119	1.35	0.091			
Mg	Ext	11.8	6.3	18.1			
Mn	Ext	0.038	0.327	0.27			
Mo	Ext	<0.005	<0.005	<0.005			
Na	Ext	1.3	0.8	4.6			
Ni	Ext	<0.02	<0.02	<0.02			
P	Ext						
Pb	Ext	<0.02	0.06	<0.02			
Sb	Ext	<0.05	<0.05	<0.05			
Se	Ext	<0.05	<0.05	<0.05			
Si	Ext	2.1	0.2	2.5			
Sn	Ext	<0.01	<0.01	<0.01			
Sr	Ext	0.162	0.085	0.207			
Ti	Ext	<0.002	0.009	<0.002			
V	Ext	<0.0	<0.005	<0.005			
Zn	Ext	0.062	0.172	0.067			

STATION NUMBER:		2DD-S10					
STATION DESCRIPTION:		South McQuesten River at the Freshwater Pumphouse					
Sampled by:		DIAND	DIAND	DIAND	EPS	EPS	EPS
DATE		83/9/22	85/5/23	85/11/27	86/4/25	86/7/24	86/9/19
Ag	Diss						
As	Diss						
B	Diss						
Ba	Diss						
Be	Diss						
Ca	Diss						
Cd	Diss						
Co	Diss						
Cr	Diss						
Cu	Diss						
Fe	Diss						
Mg	Diss						
Mn	Diss				0.144	0.031	0.030
Mn	Diss						
Mo	Diss						
Na	Diss						
Ni	Diss						
P	Diss						
Pb	Diss						
Sb	Diss						
Se	Diss						
Si	Diss						
Sn	Diss						
Sr	Diss						
Ti	Diss						
V	Diss						
Zn	Diss						
Zn	Diss				0.116	0.021	0.038
Cd	Total		0.003				
Cu	Total		0.006				
Fe	Total		2.69				
Mn	Total		0.327		0.143	0.042	0.045
Pb	Total		0.07				
Zn	Total		0.178		0.121	0.040	0.061
CN							

STATION NUMBER:		2DD-S10					
STATION DESCRIPTION:		South McQuesten River at the Freshwater Pump house					
	Sampled by:	EPS	EPS	EPS	EPS	EPS	EPS
DATE		87/4/9	87/6/17	87/10/29	87/12/8	88/4/13	88/8/4
FLOW	(m ³ /s)						
TEMP	(°C)	2.9				1.0	
pH	insitu						
	lab						
COND	insitu						
(µmhos/cm)	lab						
DISSOLVED	OXYGEN						
COLOUR	(FTU)						
TURBIDITY	(FTU)						
T. Alkalinity	CaCO ₃						
T. Hardness	CaCO ₃	208				189	
Sulphate		88.0					
Cl							
PO ₄							
NO ₂							
NO ₃							
NH ₃							
NFR							
Ag	Ext						
As	Ext						
B	Ext						
Ba	Ext						
Be	Ext						
Ca	Ext						
Cd	Ext						
Co	Ext						
Cr	Ext						
Cu	Ext						
Fe	Ext						
Mg	Ext						
Mn	Ext						
Mo	Ext						
Na	Ext						
Ni	Ext						
P	Ext						
Pb	Ext						
Sb	Ext						
Se	Ext						
Si	Ext						
Sn	Ext						
Sr	Ext						
Ti	Ext						
V	Ext						
Zn	Ext						

STATION NUMBER:		2DD-S10					
STATION DESCRIPTION:		South McQuesten River at the Freshwater Pumphouse					
DATE	Sampled by:	EPS	EPS	EPS	EPS	EPS	EPS
		87/4/9	87/6/17	87/10/29	87/12/8	88/4/13	88/8/4
Ag	Diss						
As	Diss						
B	Diss						
Ba	Diss						
Be	Diss						
Ca	Diss						
Cd	Diss						
Co	Diss						
Cr	Diss						
Cu	Diss						
Fe	Diss						
Mg	Diss						
Mn	Diss	0.058				0.058	
Mn	Diss						
Mo	Diss						
Na	Diss						
Ni	Diss						
P	Diss						
Pb	Diss						
Sb	Diss						
Se	Diss						
Si	Diss						
Sn	Diss						
Sr	Diss						
Ti	Diss						
V	Diss						
Zn	Diss						
Zn	Diss	0.071				0.057	
Cd	Total						
Cu	Total						
Fe	Total						
Mn	Total	0.060				0.060	
Pb	Total						
Zn	Total	0.079				0.060	
CN							

STATION NUMBER:		2DD-S10			
STATION DESCRIPTION:		South McQuesten River at Pumphouse			
	Sampled by:	EPS	EPS	DIAND	EPS
DATE		90/7/24	90/9/20	94/5/10	95/4/12
FLOW	(m ³ /s)				
TEMP	(°C)	14.9	7.2	5.3	
pH	insitu	8.04		7.2	
	lab		8.1	7.70	7.86
COND	insitu	233	150	199	
(umhos/cm)	lab	319	298	190	482
DISSOLVED OXYGEN		8.93			
COLOUR	(FTU)	10	15		
TURBIDITY	(FTU)	0.2	0.3	6.0	
T. Alkalinity	CaCO ₃	106	95	75	164
T. Hardness	CaCO ₃	148	142	83.7	238
Sulphate		51.7	53.7	29.0	83.8
Cl		0.7	0.6	<0.5	2.8
PO ₄		0.002	0.004		
NO ₂		<0.002	<0.002	<1	<0.005
NO ₃		0.021	0.034	<0.1	0.094
NH ₃		0.013	0.014	<0.05	0.03
NFR		<10	<10	27	<10
Ag	Ext	0.0004	0.0012	<0.001	
As	Ext	<0.05	<0.05	<0.02	
B	Ext	<0.01	<0.01		
Ba	Ext	0.058	0.046	0.034	
Be	Ext	<0.001	<0.001	<0.0002	
Ca	Ext	39.6	38.2	23.0	
Cd	Ext	0.0004	0.0004	0.0095	
Co	Ext	<0.005	<0.005	<0.001	
Cr	Ext	<0.005	0.005	<0.001	
Cu	Ext	0.0013	0.0012	0.005	
Fe	Ext	0.114	0.122	0.536	
Mg	Ext	11.9	11.2	5.9	
Mn	Ext	0.041	0.043	0.141	
Mo	Ext	<0.01	<0.01	<0.005	
Na	Ext	1.5	1.2	0.67	
Ni	Ext	<0.02	<0.02	0.004	
P	Ext	<0.1	<0.1		
Pb	Ext	0.0036	0.0027	<0.01	
Sb	Ext	<0.05	<0.05	<0.02	
Se	Ext	<0.05	<0.05	<0.02	
Si	Ext	1.81	1.99	1.27	
Sn	Ext	<0.05	<0.05	<0.01	
Sr	Ext	0.161	0.147	0.09	
Ti	Ext	<0.002	<0.002	0.003	
V	Ext	<0.01	<0.01	<0.002	
Zn	Ext	0.019	0.048	0.282	

STATION NUMBER:		2DD-S10			
STATION DESCRIPTION:		South McQuesten River at Pumphouse			
Sampled by:		EPS	EPS	DIAND	EPS
DATE		90/7/24	90/9/20	94/5/10	95/4/12
Ag	Diss				<0.01
As	Diss				<0.05
B	Diss				<0.01
Ba	Diss				0.089
Be	Diss				<0.001
Ca	Diss				63.2
Cd	Diss				0.0007
Co	Diss				<0.005
Cr	Diss				<0.005
Cu	Diss				0.001
Fe	Diss				0.081
Mg	Diss				19.3
Mn	Diss				
Mn	Diss				0.092
Mo	Diss				<0.01
Na	Diss				3
Ni	Diss				<0.02
P	Diss				<0.1
Pb	Diss				<0.05
Sb	Diss				<0.05
Se	Diss				<0.05
Si	Diss				3.46
Sn	Diss				<0.05
Sr	Diss				0.216
Ti	Diss				<0.002
V	Diss				<0.01
Zn	Diss				0.041
Zn	Diss				0.041
Cd	Total		0.0004	0.0133	0.0004
Cu	Total	<0.005	0.0012	0.01	0.0128
Fe	Total	0.148	0.172	1.03	0.22
Mn	Total	0.042	0.045	0.176	0.1
Pb	Total	0.0034	0.0021	0.01	<0.06
Zn	Total	0.016	0.061	0.362	0.048
CN					

STATION NUMBER: 2DD-S10													
STATION DESCRIPTION: South McQuesten River at the Freshwater Pumphouse													
SAMPLER	DATE	FLOW	TEMP	pH	Cond.	NFR	As	Cd	Cu	Fe	Mn	Pb	Zn
		(cms)	(oC)	lab	umhos/cm		Ext	Ext	Ext	Ext	Ext	Ext	Ext
UKHM	75/1/7		1.0	7.05				<0.01	<0.01	0.13		<0.1	0.01
UKHM	75/2/18		1.0	7.10		<1	<0.002	<0.01	<0.01	0.24		<0.1	<0.01
UKHM	75/3/24		1.0	6.90		4	<0.002	0.01	0.01	0.32		<0.1	0.15
UKHM	75/4/21		2.0	6.90		31		<0.01	0.01	0.42		<0.1	0.01
UKHM	75/5/30		6.0	7.10		45	0.005	<0.01	0.01	0.30		<0.1	<0.01
UKHM	75/6/24		14.0	7.00		19	<0.002	<0.01	<0.01	0.25		<0.1	0.06
UKHM	75/7/16		18.0	7.55		3	<0.001	<0.01	0.01	0.07		<0.1	0.10
UKHM	75/8/15		13.0	7.60		4	<0.002	<0.01	0.02	0.03		<0.1	0.20
UKHM	75/9/16		8.0	7.70		1	<0.002	<0.01	<0.01	<0.1		<0.1	0.09
UKHM	75/10/15		2.0	8.00		5	<0.002	<0.01	<0.01	0.10		<0.1	0.04
UKHM	75/11/17		2.0	7.50		10	<0.002	<0.01	<0.01	0.10		<0.1	0.05
UKHM	76/4/20		1.0	7.00		5	<0.004	<0.01	<0.01	<0.1		<0.1	<0.01
UKHM	76/5/17		5.0	8.00		4	<0.02	<0.01	<0.01	<0.1		<0.1	0.06
UKHM	76/6/16		17.0	8.10		3	<0.004	<0.01	<0.01	<0.1		<0.1	0.03
UKHM	76/7/15		17.0	8.05		12	<0.004	<0.01	<0.01	<0.1		<0.1	<0.01
UKHM	76/8/17		11.0	8.05		8	<0.004	<0.01	<0.01	<0.1		<0.1	0.04
UKHM	76/9/16		7.0	8.00		4	<0.004	<0.01	<0.01	<0.1		<0.1	0.04
UKHM	76/10/14		2.0	7.70		3	<0.004	<0.01	<0.01	<0.1		<0.1	0.02
UKHM	76/11/16		6.0	7.80		5	<0.004	<0.01	<0.01	<0.1		<0.1	0.03
UKHM	76/12/21		4.0	7.70		2	<0.004	<0.01	<0.01	<0.1		<0.1	0.04
UKHM	79/1/1		4.0	7.60		15	<0.002	<0.01	<0.01	<0.01		<0.01	<0.01
UKHM	79/2/1		2.0	7.80		17	<0.002	0.01	0.01	0.01		0.01	0.01
UKHM	79/3/1		2.0	7.46		6	<0.002	<0.01	<0.01	<0.01		<0.01	<0.01
UKHM	79/4/1		3.0	7.40		4	0.008	<0.01	<0.01	<0.01		<0.01	<0.01
UKHM	79/5/1		9.0	7.28		32	0.008	<0.01	<0.01	<0.08		<0.01	<0.01
UKHM	79/6/1		15.0	7.82		4	0.005	0.01	0.01	0.21		0.13	0.01
UKHM	79/7/1		17.0	8.01		3	0.005	0.01	0.01	0.01		0.14	0.01
UKHM	79/8/1		12.0	7.87		4	<0.002	0.01	0.01	0.01		0.01	0.01
UKHM	79/9/1		8.0	8.01		7	<0.002	0.01	0.01	0.01		0.01	0.01
UKHM	79/10/1		4.0	7.77		6	<0.002	<0.01	<0.01	0.01		<0.01	0.02
UKHM	79/11/1		3.0	7.62		3		0.01	0.01	0.01		0.01	0.01
UKHM	79/12/1		4.0	7.99		7	0.002	0.01	0.01	0.01		0.01	0.01
UKHM	80/1/15		3.0	7.62		9	0.002	0.01	0.01	0.01		0.01	0.01

STATION NUMBER: 2DD-S10

STATION DESCRIPTION: South McQuesten River at the Freshwater Pumphouse

SAMPLER	DATE	FLOW (cms)	TEMP (oC)	pH Cond. lab umhos/cm	NFR	As Ext	Cd Ext	Cu Ext	Fe Ext	Mn Ext	Pb Ext	Zn Ext
UKHM	80/2/18		3.0	7.46	4	<0.002	<0.01	<0.01	0.01		<0.01	0.01
UKHM	80/3/18		3.0	7.71	4	0.002	0.01	0.01	0.01		<0.01	0.01
UKHM	80/4/16		3.0	7.35	5	0.002	0.01	0.01	0.01		0.01	0.01
UKHM	80/5/16		9.0	7.85	6	0.002	0.01	0.01	0.13		0.01	0.01
UKHM	80/6/18			7.80	11	0.002	0.01	0.01	0.07		0.01	0.01
UKHM	80/7/17		8.0	7.08	1	<0.002	0.01	0.01	0.03		0.01	0.01
UKHM	80/8/29		10.0	7.62	3	0.002	0.01	0.01	0.04		0.01	0.01
UKHM	80/9/29		4.0	7.79	5	<0.002	0.01	0.01	0.01		0.06	0.01
UKHM	80/10/30		13.0	7.99	8	<0.002	0.01	0.01	0.01		0.01	0.01
UKHM	80/11/24		4.0	7.96	5	0.002	0.01	0.01	0.01		0.01	0.01
UKHM	80/12/16		4.0	7.83	5	0.005	0.01	0.01	0.01		0.01	0.01
UKHM	81/10/19		0.1	7.30	4		0.010	0.010	0.020	0.000	0.01	0.010
UKHM	81/11/16		0.1	7.62	3		0.010	0.010	0.230	0.000	0.01	0.010
UKHM	82/4/12		3.0	7.71	6		0.010	0.010	0.010	0.000	0.01	0.010
UKHM	82/1/18		3.0	7.45	6		0.010	0.010	0.010	0.000	0.01	0.010
UKHM	82/2/17		0.1	7.73	7		0.020	0.010	0.310	0.000	0.01	0.010
UKHM	82/3/18		0.0	8.61	5		0.010	0.010	0.220	0.000	0.01	0.010
UKHM	82/4/26		0.0	7.69	3		0.010	0.010	0.040	0.000	0.01	0.010
UKHM	82/5/25		4.0	8.08	5		0.010	0.010	0.200	0.000	0.01	0.040
UKHM	82/6/17		10.0	7.75	5		0.010	0.010	0.060	0.000	0.01	0.010
UKHM	82/7/19		14.0	7.86	6		0.020	0.010	0.010	0.000	0.01	0.010
UKHM	82/8/11		0.0	7.98	2		0.010	0.010	0.120	0.000	0.01	0.020
UKHM	82/9/28		8.0	7.97	3		0.010	0.010	0.010	0.000	0.01	0.010
UKHM	82/10/20		5.0	8.01	2		0.010	0.010	0.010	0.000	0.01	0.010
UKHM	82/11/23		4.0	8.33	6		<0.01	<0.01	0.010	0.000	<0.01	<0.01
UKHM	82/12/6		6.0	8.33	5		<0.01	<0.01	0.040	0.000	<0.01	<0.01
UKHM	83/1/27		0.0	7.67	2		0.010	0.010	0.010	0.000	0.01	0.010
UKHM	83/2/7		1.0	7.71	3		<0.01	<0.01	0.070	0.000	<0.01	<0.01
UKHM	83/3/28		0.0	7.64	4		0.010	0.010	0.070	0.000	0.01	0.010
UKHM	83/4/11		2.0	7.61	3		<0.01	<0.01	<0.01	0.000	<0.01	<0.01
UKHM	83/5/27		0.0	7.54	6		0.010	0.010	0.100	0.000	0.01	0.010
UKHM	83/7/27		0.0	8.02	10		0.010	0.080	0.010	0.000	0.01	<0.01
UKHM	83/8/25		12.0	8.21	10		<0.01	<0.01	0.270	0.000	0.01	0.020

STATION NUMBER: 2DD-S10

STATION DESCRIPTION: South McQuesten River at the Freshwater Pumpouse

SAMPLER	DATE	FLOW	TEMP	pH	Cond.	NFR	As	Cd	Cu	Fe	Mn	Pb	Zn
		(cms)	(oC)	lab	umhos/cm		Ext	Ext	Ext	Ext	Ext	Ext	Ext
UKHM	83/9/22		0.0	8.13		4		<0.01	<0.01	0.020	0.000	<0.01	0.020
UKHM	83/10/27		1.0	7.89		6		<0.01	<0.01	0.030	0.000	<0.01	<0.01
UKHM	83/12/15		0.1			7		<0.01	0.020	0.600	0.000	<0.01	0.050
UKHM	84/1/6		0.0	7.66	370	11		<0.01	<0.01	0.420	0.000	<0.01	0.050
UKHM	84/1/26		0.0	7.63		0		<0.01	<0.01	0.080	0.000	<0.01	<0.01
UKHM	84/3/28		0.0	7.43		5		<0.01	<0.01	0.200	0.000	<0.01	0.030
UKHM	84/4/30		1.0	7.95		8		<0.01	<0.01	0.340	0.000	<0.01	0.040
UKHM	84/6/4		11.0	7.58		6		0.010	<0.01	0.080	0.000	<0.01	0.040
UKHM	84/6/27		17.0	7.68		4		<0.01	<0.01	0.250	0.000	<0.01	0.060
UKHM	84/7/25		0.0	7.03		4		<0.01	<0.01	0.000	0.000	<0.01	<0.01
UKHM	84/9/27		0.0	7.50		6		0.010	0.010	0.010	0.000	<0.01	0.020
UKHM	84/11/3		0.0	7.82		3		0.040	0.020	0.010	0.000	<0.01	0.130
UKHM	85/5/29		0.0	8.13		20		<0.01	<0.01	0.560	0.000	<0.01	0.070
UKHM	85/6/26		0.0	7.89		12		0.010	0.010	0.250	0.000	0.01	0.010
UKHM	85/7/31		0.0	8.16		<1		0.020	<0.01	0.130	0.000	0.01	0.010
UKHM	85/9/6		6.0	7.98		<1		0.010	<0.01	0.110	0.000	<0.01	0.010
UKHM	85/10/17		0.0	8.00		<1		<0.01	<0.01	0.010	0.000	<0.01	0.040
UKHM	85/11/27		0.0	7.60	340	<1		0.010	0.020	0.080	0.000	0.01	0.100
UKHM	86/2/4		0.0	7.67	390	<1		<0.01	<0.01	0.300	0.000	<0.01	0.080
UKHM	86/5/28		0.0	7.88	120	38		0.010	<0.01	0.970	0.000	0.01	0.120
UKHM	86/7/1		0.0	8.05	203	<1		0.010	<0.01	0.130	0.000	<0.01	0.010
UKHM	86/7/3		0.0	7.41	240	<1		0.010	<0.01	0.240	0.000	<0.01	0.010
UKHM	86/9/3		0.0	8.15	244	7		0.010	0.010	0.230	0.000	<0.01	0.030
UKHM	86/10/12		0.0	8.63	291	10		<0.01	0.010	0.140	0.000	<0.5	0.120
UKHM	86/11/1		0.0	8.00	322	1		<0.01	0.030	0.220	0.000	<0.5	0.090
UKHM	87/6/4		6.0	7.69	152	35		0.010	0.010	1.020	0.000	0.01	0.120
UKHM	87/7/16		14.0	8.10	202	4		0.010	0.010	0.120	0.000	<0.01	0.060
UKHM	87/8/4		15.0	7.95	210	3		0.010	<0.01	0.100	0.000	0.01	0.040
UKHM	87/9/24		6.0	8.06	210	2		0.010	<0.01	0.160	0.000	<0.01	0.040
UKHM	87/10/16		3.0	7.60	244	2		<0.01	<0.01	0.140	0.000	0.01	0.040
UKHM	89/5/4		2.0	7.51	130	12		0.000	0.000	2.800	0.250	0.17	0.180
UKHM	89/5/31		13.0	7.74	180	28		0.000	0.010	0.130	0.030	0.02	0.060
UKHM	89/7/3		16.0	8.11	250	20		0.000	0.000	0.010	0.050	0.28	0.040

STATION NUMBER: 2DD-S10													
STATION DESCRIPTION: South McQuesten River at the Freshwater Pumpouse													
SAMPLER	DATE	FLOW	TEMP	pH	Cond.	NFR	As	Cd	Cu	Fe	Mn	Pb	Zn
		(cms)	(oC)	lab	umhos/cm		Ext	Ext	Ext	Ext	Ext	Ext	Ext
UKHM	89/7/30		14.0	7.93	270	4		0.000	0.000	0.570	0.100	0.11	0.280
UKHM	89/9/13		10.0	8.24	270	4		0.010	0.010	0.230	0.000	0.06	0.310
UKHM	89/10/16		3.0	8.25	285	4		0.000	0.010	0.020	0.050	0.00	0.190
UKHM	89/11/14		0.0		310	22		0.000	0.020	0.060	0.070	0.00	0.260
UKHM	89/12/27		0.0		230	14		0.010	0.040	0.150	0.050	0.00	0.160
UKHM	90/2/2		0.0	7.69	285	12		0.010	0.000	0.040	0.250	0.03	0.210
UKHM	90/4/8		0.0	7.82	380	28		0.000	0.020	0.290	0.220	0.00	0.070
UKHM	90/4/28		3.0	7.57	200	28		0.000	0.030	0.220	0.010	0.00	0.020
UKHM	90/5/19		10.7	7.20	123	16		0.000	0.020	0.400	0.020	0.00	0.060
UKHM	90/7/4		13.0	7.77	330	14		0.010	0.010	0.160	0.070	0.04	0.000
UKHM	90/8/2		10.0	7.63	240	28		0.000	0.010	0.030	0.030	0.10	0.000
UKHM	90/8/31		8.0	8.17	180	20		<0.01	0.020	0.170	0.020	0.02	0.010
UKHM	90/9/28		7.0	8.04	200	16		0.020	0.020	0.490	0.050	0.27	0.050
UKHM	90/10/30		0.5	7.87	280	32		<0.01	<0.01	0.120	0.040	0.50	<0.01
UKHM	90/11/30		0.5	7.90	220	16		<0.01	<0.01	0.140	0.030	0.01	<0.01
UKHM	90/12/20		0.5	7.62	180	12		<0.01	<0.01	0.140	0.010	0.01	<0.01
UKHM	91/1/31		0.0	7.48	0	<1		<0.01	<0.01	0.000	<0.01	0.00	<0.01
UKHM	91/2/28		10.0	7.35	0	<1		0.020	0.030	<0.01	0.010	<0.01	<0.01
UKHM	91/3/19		0.5	7.42	205	<1		0.020	0.210	0.080	0.040	<0.01	<0.01
UKHM	91/4/29		4.0	7.92	150	8		<0.01	0.040	0.150	<0.01	<0.01	<0.01
UKHM	91/5/22		8.6	7.20	125	12		0.070	<0.01	0.210	<0.01	0.04	0.130
UKHM	91/6/22		12.0	8.10	160	8		0.010	0.010	0.710	<0.01	<0.01	0.030
UKHM	91/7/31		7.0	7.60	180	12		<0.01	<0.01	0.700	<0.01	0.01	<0.01
UKHM	91/8/20		8.0	8.07	140	12		0.010	0.010	0.110	0.040	<0.01	0.010
UKHM	91/9/16		8.0	7.61	160	8		0.010	<0.01	0.040	<0.01	<0.01	0.030
UKHM	91/10/10		1.0	8.01	180	8		0.010	0.010	0.500	<0.01	0.01	0.280
UKHM	91/11/19		1.0	7.69	210	12		<0.01	0.010	1.670	0.010	0.02	0.110
UKHM	91/12/16		0.5	7.45	190	8		<0.01	0.010	0.510	0.080	<0.01	0.490
UKHM	92/1/24		0.5	7.56	200	12		<0.01	0.010	0.230	0.060	<0.01	0.340
UKHM	92/2/27		0.5	7.54	220	4		<0.01	<0.01	0.140	<0.01	0.02	0.100
UKHM	92/3/20		0.5	7.58	230	8		<0.01	0.010	0.160	0.020	0.01	0.120
UKHM	92/3/20		0.5	7.90	220	4		<0.01	0.010	0.180	0.010	<0.01	0.120
UKHM	92/4/23		1.0	7.59	158	4		<0.01	0.010	0.010	0.060	0.01	<0.01

STATION NUMBER: 2DD-S10

STATION DESCRIPTION: South McQuesten River at the Freshwater Pumphouse

SAMPLER	DATE	FLOW (cms)	TEMP (oC)	pH	Cond. lab umhos/cm	NFR	As Ext	Cd Ext	Cu Ext	Fe Ext	Mn Ext	Pb Ext	Zn Ext
UKHM	92/5/27		5.0	7.22	90	16		0.010	<0.01	0.370	<0.01	0.01	0.190
UKHM	92/6/25		7.0	7.74	180	8		0.010	0.010	0.220	0.050	0.01	0.190
UKHM	92/7/29		10.0	8.01	200	8		<0.01	0.010	0.040	0.050	<0.01	0.130
UKHM	92/8/28		8.0	7.51	200	4		0.010	0.010	0.060	0.040	<0.01	0.110
UKHM	92/10/5		2.0	8.17	160	4		0.020	0.010	0.090	0.050	0.02	0.020
UKHM	92/10/28		0.1	7.91	351	8		<0.01	0.020	0.080	<0.01	0.05	<0.01
UKHM	92/11/18		0.1	8.42	240	4		<0.01	0.010	0.180	0.100	0.02	0.010
UKHM	92/12/14		0.1	7.62	320	8		<0.01	0.020	0.030	0.020	0.02	<0.01
UKHM	93/1/29		0.1	7.53	370	8		0.010	0.010	1.040	0.010	0.01	0.020
UKHM	93/2/24		0.1	7.85	320	8		0.010	0.020	0.770	0.010	0.01	0.020
UKHM	93/3/22		0.1	7.58	300	8		0.010	0.010	0.000	0.010	0.01	0.060
UKHM	93/4/24		2.0	8.04	260	12		0.020	0.010	0.260	<0.01	<0.01	0.030
UKHM	93/5/26		4.0	7.52	170	0		0.010	0.010	0.320	0.030	<0.01	0.080
UKHM	93/6/28		7.0	7.46	220	0		0.010	0.030	0.150	0.030	<0.01	0.010
UKHM	93/7/21		16.9	8.00	280	0		0.010	0.010	0.150	0.060	<0.01	0.010
UKHM	93/8/25		6.0	7.80	250	8		0.010	0.010	0.010	0.010	<0.01	0.020
UKHM	93/9/29		1.3	7.80	200	4		0.010	0.010	0.170	0.070	<0.01	0.030
UKHM	93/10/26		1.5	7.70	200	4		0.010	0.010	0.120	0.010	<0.01	0.060
UKHM	93/11/25		1.0	7.90	240	4		0.010	0.010	0.180	0.020	<0.01	0.080
UKHM	93/12/16		1.0	7.40	240	4		0.010	0.010	0.110	0.030	0.01	0.080
UKHM	94/1/27		1.0	7.60	260	4		0.010	0.010	0.140	0.080	0.03	0.060
UKHM	94/2/24		1.0	8.00	370	4		0.010	0.010	0.180	0.120	0.03	0.070
UKHM	94/3/28		2.0	8.00	310	4		0.010	0.010	0.120	0.130	0.03	0.090
UKHM	94/4/23		3.0	8.00	210	8		0.010	0.010	0.110	0.100	0.02	0.020
UKHM	94/5/10		6.0	7.10	160	4		0.020	0.010	0.250	0.100	0.01	0.110
UKHM	94/10/31		0.5	8.00	250	0		<0.001	<0.002	0.400	0.044	0.005	0.030
UKHM	94/11/29		0.5	7.56	320	4		0.001	0.002	0.300	0.140	0.030	0.078
UKHM	95/1/1		0.5	7.40	395	0		<0.001	<0.002	0.400	0.105	0.010	0.135
UKHM	95/2/6		0.5	7.50	420	16		0.001	0.002	1.200	0.210	0.400	0.160
UKHM	95/3/29		0.5	7.10	380	0		<0.001	0.002	0.200	0.088	<0.005	0.170
UKHM	95/4/27		0.5	8.35	280	4		<0.001	<0.002	0.200	0.088	0.015	0.088
UKHM	95/5/3		1.5	8.43	200	32		0.001	0.002	1.600	0.230	0.030	0.098
UKHM	95/6/6		4.0	7.10	230	20		<0.001	<0.002	0.200	0.040	0.010	0.050

STATION NUMBER: 2DD-S10													
STATION DESCRIPTION: South McQuesten River at the Freshwater Pumphouse													
SAMPLER	DATE	FLOW	TEMP	pH Cond.		NFR	As	Cd	Cu	Fe	Mn	Pb	Zn
		(cms)	(oC)	lab	umhos/cm		Ext	Ext	Ext	Ext	Ext	Ext	Ext
UKHM	95/8/11		14.0	8.24	170	0		<0.001	0.002	<0.2	0.044	0.005	0.042
UKHM	95/9/3		12.0	8.27	190	8		<0.001	<0.002	<0.2	0.036	<0.005	0.032

STATION NUMBER: 2DD-S11								
STATION DESCRIPTION: South McQuesten River downstream of the Flat Creek confluence								
Sampled by:		DIAND	DIAND	DIAND	DIAND	DIAND	DIAND	DIAND
DATE		70/5/19	70/7/16	72/10/19	73/6/23	73/7/17	73/7/28	73/8/6
FLOW	(L/s)							
TEMP	(oC)			2.0	12.5		15.0	12.0
pH	insitu							
	lab	7.7	8.1	7.9	7.6	8.1	8.2	8.3
COND	insitu							
(umhos/cm)	lab	151	268	321	188	224	243	257
DISSOLVED OXYGEN								
COLOUR	(FTU)							
TURBIDITY	(FTU)	12.0	1.8	1.9	3.7	4.0	4.8	49.0
T. Alkalinity	CaCO ₃	51	100	127	69.3	85	88.4	98.9
T. Hardness	CaCO ₃		136	173	98.5	140	130	116
Sulphate		26.8	35.9	43.4	26	30.3	119	37.6
Cl		0.7	0.4	0.8				
PO ₄								
NO ₂								
NO ₃								
NH ₃								
NFR								
Ag	Ext			<0.008				
As	Ext			<0.004	0.005	<0.005		
B	Ext							
Ba	Ext							
Be	Ext							
Ca	Ext							
Cd	Ext							
Co	Ext							
Cr	Ext							
Cu	Ext	<0.01	<0.01	0.001	0.004	0.002	0.003	0.005
Fe	Ext	0.140	0.220	0.330	0.610	0.380	0.500	1.700
Mg	Ext							
Mn	Ext			0.13	0.14	0.14	0.06	0.12
Mo	Ext							
Na	Ext							
Ni	Ext							
P	Ext							
Pb	Ext		0.04	<0.01	0.027	0.011	0.005	0.008
Sb	Ext							
Se	Ext							
Si	Ext							
Sn	Ext							
Sr	Ext							
Ti	Ext							
V	Ext							
Zn	Ext	0.18	0.08	0.056	0.15	0.09	0.026	0.04

STATION NUMBER: 2DD-S11**STATION DESCRIPTION: South McQuesten River downstream of the Flat Creek confluence**

Sampled by:		DIAND	DIAND	DIAND	DIAND	DIAND	DIAND	DIAND
DATE		70/5/19	70/7/16	72/10/19	73/6/23	73/7/17	73/7/28	73/8/6
Ag	Diss							
As	Diss							
B	Diss							
Ba	Diss							
Be	Diss							
Ca	Diss							
Cd	Diss							
Co	Diss							
Cr	Diss							
Cu	Diss							
Fe	Diss							
Mg	Diss							
Mn	Diss							
Mo	Diss							
Na	Diss							
Ni	Diss							
P	Diss							
Pb	Diss							
Sb	Diss							
Se	Diss							
Si	Diss							
Sn	Diss							
Sr	Diss							
Ti	Diss							
V	Diss							
Zn	Diss							

STATION NUMBER: 2DD-S11**STATION DESCRIPTION: South McQuesten River downstream of the Flat Creek confluence**

	Sampled by:	DIAND	DIAND	DIAND	DIAND	DIAND	DIAND	DIAND
DATE		70/5/19	70/7/16	72/10/19	73/6/23	73/7/17	73/7/28	73/8/6
Ag	Total							
Ag	Total							
As	Total							
B	Total							
Ba	Total							
Be	Total							
Ca	Total							
Cd	Total							
Cd	Total							
Co	Total							
Cr	Total							
Cu	Total							
Cu	Total							
Fe	Total							
Fe	Total							
Mg	Total							
Mn	Total							
Mo	Total							
Na	Total							
Ni	Total							
P	Total							
Pb	Total							
Pb	Total							
Sb	Total							
Se	Total							
Si	Total							
Sn	Total							
Sr	Total							
Ti	Total							
V	Total							
Zn	Total							
Zn	Total							
CYANIDE_T								

STATION NUMBER: 2DD-S11		STATION DESCRIPTION: South McQuesten River downstream of the Flat Creek confluence						
	Sampled by:	DIAND	DIAND	DIAND	EPS	DIAND	DIAND	EPS
DATE		73/9/5	74/6/11	74/7/3	74/7/15	74/8/14	75/5/29	75/6/8
FLOW	(L/s)							
TEMP	(oC)				10.5			9.0
pH	insitu				7.5			8.7
	lab	8	7.7	7.8		7.7	7.9	
COND	insitu				226			150
(umhos/cm)	lab	230	214	247		235	140	
DISSOLVED OXYGEN					7.90			10.00
COLOUR	(FTU)				40			
TURBIDITY	(FTU)	0.8	1.4	0.9	7.4	1.9	5.1	
T. Alkalinity	CaCO ₃	88.2	83.2	95.4		91	49.2	
T. Hardness	CaCO ₃	120	113	130	290	124	72.4	
Sulphate		12.8	26	30.5		30.4	18.8	
Cl								
PO ₄								
NO ₂								
NO ₃								
NH ₃								
NFR					<5		14.8	
Ag	Ext							<0.01
As	Ext							
B	Ext							
Ba	Ext							
Be	Ext							
Ca	Ext				59.0			
Cd	Ext				<0.01			<0.01
Co	Ext							
Cr	Ext							
Cu	Ext	0.002	0.004	0.007	<0.01	0.007	0.003	<0.01
Fe	Ext	0.570	1.200	1.600		0.250	0.560	
Mg	Ext				35			
Mn	Ext	0.08	0.18	0.38	1.7	0.08	0.17	
Mo	Ext				<0.1			<0.3
Na	Ext							
Ni	Ext							<0.1
P	Ext							
Pb	Ext	0.008	0.019	0.008	<0.02	0.007	0.031	<0.02
Sb	Ext							<0.3
Se	Ext							
Si	Ext							
Sn	Ext							
Sr	Ext							
Ti	Ext							
V	Ext							
Zn	Ext	0.06	0.058	0.034	0.59	0.06	0.1	0.74

STATION NUMBER: 2DD-S11**STATION DESCRIPTION: South McQuesten River downstream of the Flat Creek confluence**

	Sampled by:	DIAND	DIAND	DIAND	EPS	DIAND	DIAND	EPS
DATE		73/9/5	74/6/11	74/7/3	74/7/15	74/8/14	75/5/29	75/6/6
Ag	Diss							
As	Diss							
B	Diss							
Ba	Diss							
Be	Diss							
Ca	Diss							
Cd	Diss							
Co	Diss							
Cr	Diss							
Cu	Diss							
Fe	Diss							
Mg	Diss							
Mn	Diss							
Mo	Diss							
Na	Diss							
Ni	Diss							
P	Diss							
Pb	Diss							
Sb	Diss							
Se	Diss							
Si	Diss							
Sn	Diss							
Sr	Diss							
Ti	Diss							
V	Diss							
Zn	Diss							

STATION NUMBER: 2DD-S11**STATION DESCRIPTION: South McQuesten River downstream of the Flat Creek confluence**

Sampled by:		DIAND	DIAND	DIAND	EPS	DIAND	DIAND	EPS
DATE		73/9/5	74/6/11	74/7/3	74/7/15	74/8/14	75/5/29	75/6/6
Ag	Total							
Ag	Total							
As	Total							
B	Total							
Ba	Total							
Be	Total							
Ca	Total							
Cd	Total							
Cd	Total							
Co	Total							
Cr	Total							
Cu	Total							
Cu	Total							
Fe	Total							
Fe	Total							
Mg	Total							
Mn	Total							
Mo	Total							
Na	Total							
Ni	Total							
P	Total							
Pb	Total							
Pb	Total							
Sb	Total							
Se	Total							
Si	Total							
Sn	Total							
Sr	Total							
Ti	Total							
V	Total							
Zn	Total							
Zn	Total							
CYANIDE_T								

STATION NUMBER: 2DD-S11		STATION DESCRIPTION: South McQuesten River downstream of the Flat Creek confluence						
	Sampled by:	DIAND	DIAND	EPS	DIAND	DIAND	DIAND	EPS
DATE		75/6/19	75/7/5	75/7/9	75/7/16	78/5/30	78/7/13	80/8/5
FLOW	(L/s)					6050		
TEMP	(°C)	14.0		15.2		5.0	18.0	
pH	insitu			8.1		6.9	8.1	
	lab	7.7	8.0	8.1	8.0	7.7		7.70
COND	insitu			230		125	250	
(umhos/cm)	lab	196	276		233	230		560
DISSOLVED	OXYGEN						7.94	9.50
COLOUR	(FTU)			29	20	40		20
TURBIDITY	(FTU)	2.9	3.3	0.2	12.0	1.3		3.5
T. Alkalinity	CaCO ₃	77.5	80.4	86.1	92.5	81.4		118
T. Hardness	CaCO ₃	103	144	120	133	112		251
Sulphate		29	57			33		162
Cl								6.87
PO ₄						0.015		0.0109
NO ₂								0.019
NO ₃								0.150
NH ₃								0.0659
NFR				8	37	<5		<5
Ag	Ext			<0.03	<0.005	<0.005		
As	Ext				0.0024	0.0022		0.0012
B	Ext							
Ba	Ext				0.17			0.0508
Be	Ext							
Ca	Ext			32.0				77.1
Cd	Ext			<0.01	0.0002	0.001		<0.01
Co	Ext							<0.015
Cr	Ext							<0.015
Cu	Ext	0.001	0.006	<0.01	0.003	0.003		<0.01
Fe	Ext	0.340	0.510	0.210	0.640	0.420		0.369
Mg	Ext			9		7.1		14.2
Mn	Ext	0.07	0.29		0.07	0.08		0.662
Mo	Ext			<0.3	<0.0005			<0.15
Na	Ext							5.28
Ni	Ext			<0.1	<0.001			<0.08
P	Ext							
Pb	Ext	0.012	0.005	<0.02	0.008	0.025		<0.08
Sb	Ext			<0.3				<0.0005
Se	Ext							<0.0005
Si	Ext							2.01
Sn	Ext							<0.2
Sr	Ext							0.179
Ti	Ext							<0.0085
V	Ext							<0.05
Zn	Ext	0.04	0.11	0.09	0.023	0.05		0.223

STATION NUMBER: 2DD-S11**STATION DESCRIPTION: South McQuesten River downstream of the Flat Creek confluence**

Sampled by:		DIAND	DIAND	EPS	DIAND	DIAND	DIAND	EPS
DATE		75/6/19	75/7/5	75/7/9	75/7/16	78/5/30	78/7/13	80/8/5
Ag	Diss							
As	Diss							
B	Diss							
Ba	Diss							
Be	Diss							
Ca	Diss							
Cd	Diss							
Co	Diss							
Cr	Diss							
Cu	Diss							
Fe	Diss							
Mg	Diss							
Mn	Diss							
Mo	Diss							
Na	Diss							
Ni	Diss							
P	Diss							
Pb	Diss							
Sb	Diss							
Se	Diss							
Si	Diss							
Sn	Diss							
Sr	Diss							
Ti	Diss							
V	Diss							
Zn	Diss							

STATION NUMBER: 2DD-S11
STATION DESCRIPTION: South McQuesten River downstream of the Flat Creek confluence

Sampled by:		DIAND	DIAND	EPS	DIAND	DIAND	DIAND	EPS
DATE		75/6/19	75/7/5	75/7/9	75/7/16	78/5/30	78/7/13	80/8/5
Ag	Total							
Ag	Total							
As	Total							
B	Total							
Ba	Total							
Be	Total							
Ca	Total							
Cd	Total							
Cd	Total							
Co	Total							
Cr	Total							
Cu	Total							
Cu	Total							
Fe	Total							
Fe	Total							
Mg	Total							
Mn	Total							
Mo	Total							
Na	Total							
Ni	Total							
P	Total							
Pb	Total							
Pb	Total							
Sb	Total							
Se	Total							
Si	Total							
Sn	Total							
Sr	Total							
Ti	Total							
V	Total							
Zn	Total							
Zn	Total							
CYANIDE_T								<0.03

STATION NUMBER: 2DD-S11		STATION DESCRIPTION: South McQuesten River downstream of the Flat Creek confluence						
	Sampled by:	EPS	EPS	DIAND	EPS	EPS	DIAND	EPS
DATE		80/8/6	80/8/7	83/9/22	85/7/9	85/8/21	85/11/27	90/7/24
FLOW	(L/s)				8300	3100		
TEMP	(°C)			4.6	15.0	8.3		17
pH	insitu			7.9	8.06	7.65		8.19
	lab	7.70	8.00	7.8	8.1	8.0	7.8	
COND	insitu			348	250	450		253
(umhos/cm)	lab	560	470	575	255	460	650	315
DISSOLVED OXYGEN		9.77	9.50		8.00	10.50		9.11
COLOUR	(FTU)	20	15	20	20	10	5	5
TURBIDITY	(FTU)	3.0	2.6	3.5	0.6	0.38	0.4	0.3
T. Alkalinity	CaCO ₃	122	115	158	92.1	119.7	176	111
T. Hardness	CaCO ₃	277	237	316	158	260	354	154
Sulphate		151.3	123	181	40	135	160	56.4
Cl		6.55	4.78		0.8	2.1	3.3	0.7
PO ₄		0.0098	0.0095		0.007	<0.049		0.002
NO ₂		0.020	0.014	0.110	<0.005	<0.005	<0.005	<0.002
NO ₃		0.152	0.112		0.016	0.047	0.158	0.008
NH ₃		0.0506	0.0229	0.061	0.014	0.047	0.014	0.003
NFR		<5	<5	<5	<5	<5	5	<10
Ag	Ext			<0.0005	<0.0005	<0.0005		0.0005
As	Ext	0.0016	0.0021	<0.05	<0.05	<0.05	<0.05	<0.05
B	Ext				0.016	0.017	0.003	<0.01
Ba	Ext	0.0602	0.0499	0.047	0.050	0.057	0.139	0.063
Be	Ext			<0.001	<0.001	<0.001	<0.001	<0.001
Ca	Ext	86.0	72.0	38.1	43.9	73.2	99.2	41.4
Cd	Ext	<0.01	<0.01	0.005	0.0018	<0.0005	<0.002	0.0002
Co	Ext	<0.015	<0.015	<0.005	<0.005	<0.005	<0.005	<0.005
Cr	Ext	<0.015	<0.015	0.005	<0.005	<0.005	<0.005	<0.005
Cu	Ext	<0.01	<0.01	<0.005	0.002	<0.002	<0.005	0.0007
Fe	Ext	0.380	0.486	0.468	0.209	0.183	0.076	0.15
Mg	Ext	15.2	17.4	22.7	11.4	18.5	25.7	12.2
Mn	Ext	0.635	0.847	2.06	0.113	0.055	0.046	0.049
Mo	Ext	<0.15	<0.15	<0.005	0.005	<0.005	<0.005	<0.01
Na	Ext	6.02	7.90	5.50	1.60	5.20	6.00	1.6
Ni	Ext	<0.08	<0.08	<0.02	<0.02	<0.02	<0.02	<0.02
P	Ext				<0.05	0.06		<0.1
Pb	Ext	<0.08	<0.08	0.04	0.024	<0.001	<0.02	0.0019
Sb	Ext	<0.0005	<0.0005	<0.05	<0.05	<0.05	<0.05	<0.05
Se	Ext	<0.0005	<0.0005	<0.05	<0.05	<0.05	<0.05	<0.05
Si	Ext	2.00	1.85	2.70	1.20	1.90	2.30	1.81
Sn	Ext	<0.2	<0.2	<0.01	<0.01	<0.02	<0.01	<0.05
Sr	Ext	0.185	0.215	0.19	0.152	0.194	0.161	0.166
Ti	Ext	<0.0085	<0.0085	<0.002	<0.002	<0.002	<0.002	<0.002
V	Ext	<0.05	<0.05	<0.01	<0.005	<0.005	<0.005	<0.01
Zn	Ext	0.216	0.293	0.616	0.029	0.065	0.118	0.013

STATION NUMBER: 2DD-S11**STATION DESCRIPTION: South McQuesten River downstream of the Flat Creek confluence**

Sampled by:		EPS	EPS	DIAND	EPS	EPS	DIAND	EPS
DATE		80/8/6	80/8/7	83/9/22	85/7/9	85/8/21	85/11/27	90/7/24
Ag	Diss							
As	Diss							
B	Diss							
Ba	Diss							
Be	Diss							
Ca	Diss							
Cd	Diss							
Co	Diss							
Cr	Diss							
Cu	Diss							
Fe	Diss							
Mg	Diss							
Mn	Diss							
Mo	Diss							
Na	Diss							
Ni	Diss							
P	Diss							
Pb	Diss							
Sb	Diss							
Se	Diss							
Si	Diss							
Sn	Diss							
Sr	Diss							
Ti	Diss							
V	Diss							
Zn	Diss							

STATION NUMBER: 2DD-S11**STATION DESCRIPTION: South McQuesten River downstream of the Flat Creek confluence**

	Sampled by:	EPS	EPS	DIAND	EPS	EPS	DIAND	EPS
DATE		80/8/6	80/8/7	83/9/22	85/7/9	85/8/21	85/11/27	90/7/24
Ag	Total							0.0006
Ag	Total							
As	Total							
B	Total							
Ba	Total							
Be	Total							
Ca	Total							
Cd	Total							
Cd	Total							
Co	Total							
Cr	Total							
Cu	Total							0.0012
Cu	Total							
Fe	Total							0.163
Fe	Total							
Mg	Total							
Mn	Total							
Mo	Total							
Na	Total							
Ni	Total							
P	Total							
Pb	Total							0.0023
Pb	Total							
Sb	Total							
Se	Total							
Si	Total							
Sn	Total							
Sr	Total							
Ti	Total							
V	Total							
Zn	Total							0.01
Zn	Total							
CYANIDE_T		<0.03	<0.03					

STATION NUMBER: 2DD-S11		STATION DESCRIPTION: South McQuesten River downstream of the Flat C				
Sampled by:		PC-B	EPS	EPS	DIAND	DIAND
DATE		90/8/31	90/9/19	95/4/12	95/5/16	95/8/3
FLOW	(L/s)					
TEMP	(°C)	8.0	6.2		4.2	11.9
pH	insitu	7.9			7.9	8.1
	lab		8.0	7.91	7.8	8.1
COND	insitu	280	189		313	402
(umhos/cm)	lab		320	699	280	385
DISSOLVED OXYGEN		9.10	10.7			
COLOUR	(FTU)		15			
TURBIDITY	(FTU)		0.3		5.0	2.0
T. Alkalinity	CaCO ₃		99	205	73	115
T. Hardness	CaCO ₃		150	380	154	151
Sulphate			58.0	177.7	77.3	69.5
Cl			0.7	2.55	<1	<1
PO ₄			0.004			
NO ₂			<0.002	<0.005	<2	<2
NO ₃			0.036	0.127	<0.2	<0.2
NH ₃			0.009	<0.002	<0.05	<0.05
NFR		<5	<9	<10	11	<5
Ag	Ext		0.0012			
As	Ext		<0.05			
B	Ext		<0.01			
Ba	Ext		0.048			
Be	Ext		<0.001			
Ca	Ext		40.3			
Cd	Ext		0.0004			
Co	Ext		<0.005			
Cr	Ext		<0.005			
Cu	Ext		0.0012			
Fe	Ext		0.132			
Mg	Ext		11.8			
Mn	Ext		0.046			
Mo	Ext		<0.01			
Na	Ext		1.3			
Ni	Ext		<0.02			
P	Ext		<0.1			
Pb	Ext		0.0045			
Sb	Ext		<0.05			
Se	Ext		<0.05			
Si	Ext		2.07			
Sn	Ext		<0.05			
Sr	Ext		0.149			
Ti	Ext		<0.002			
V	Ext		<0.01			
Zn	Ext		0.055			

STATION NUMBER: 2DD-S11						
STATION DESCRIPTION: South McQuesten River downstream of the Flat C						
	Sampled by:	PC-B	EPS	EPS	DIAND	DIAND
DATE		90/8/31	90/9/19	95/4/12	95/5/16	95/8/3
Ag	Diss			<0.01		
As	Diss			<0.05		
B	Diss			<0.01		
Ba	Diss			0.11		
Be	Diss			<0.001		
Ca	Diss			106		
Cd	Diss			0.0002		
Co	Diss			<0.005		
Cr	Diss			0.012		
Cu	Diss			<0.0005		
Fe	Diss			0.018		
Mg	Diss			27.8		
Mn	Diss			0.029		
Mo	Diss			<0.01		
Na	Diss			2.5		
Ni	Diss			<0.02		
P	Diss			<0.1		
Pb	Diss			<0.05		
Sb	Diss			<0.05		
Se	Diss			<0.05		
Si	Diss			2.54		
Sn	Diss			<0.05		
Sr	Diss			0.208		
Ti	Diss			<0.002		
V	Diss			<0.01		
Zn	Diss			0.026		

STATION NUMBER: 2DD-S11						
STATION DESCRIPTION: South McQuesten River downstream of the Flat C						
	Sampled by:	PC-B	EPS	EPS	DIAND	DIAND
DATE		90/8/31	90/9/19	95/4/12	95/5/16	95/8/3
Ag	Total	<0.005	0.0010	<0.01		
Ag	Total			<0.01	<0.001	<0.001
As	Total			<0.06	<0.02	<0.02
B	Total			<0.01		
Ba	Total			0.12	0.0252	0.0389
Be	Total			<0.001	<0.0002	<0.0002
Ca	Total			107	42.2	40.5
Cd	Total			0.0003		
Cd	Total			0.0003	0.0013	<0.0005
Co	Total			<0.006	<0.001	<0.001
Cr	Total			0.006	<0.001	<0.001
Cu	Total	<0.002	0.0012	0.0014		
Cu	Total			0.0014	0.051	0.013
Fe	Total	0.151	0.181	0.042		
Fe	Total			0.042	0.400	0.131
Mg	Total			28.9	11.4	12.1
Mn	Total			0.029	0.095	0.038
Mo	Total			<0.01	<0.005	<0.005
Na	Total			2.8	1.24	1.36
Ni	Total			<0.02	0.003	0.004
P	Total			<1	<0.06	<0.05
Pb	Total	<0.005	0.0042	<0.06		
Pb	Total			<0.06	0.03	<0.01
Sb	Total			<0.06	<0.02	<0.02
Se	Total			<0.06	<0.02	<0.02
Si	Total			2.58	1.69	1.4
Sn	Total			<0.06	<0.01	<0.01
Sr	Total			0.216	0.1	0.12
Ti	Total			<0.002	0.003	<0.001
V	Total			<0.01	0.003	<0.002
Zn	Total	0.024	0.073	0.026	0.198	0.025
Zn	Total			0.026	0.198	0.025
CYANIDE_T						

STATION NUMBER: 2DD-S11													
STATION DESCRIPTION: South McQuesten River downstream of the Flat Creek confluence													
SAMPLER	DATE	FLOW	TEMP	pH	COND	NFR	As	Cd	Cu	Fe	Mn	Pb	Zn
		(cms)	(oC)	lab	(umhos/cm)		Ext	Ext	Ext	Ext	Ext	Ext	Ext
UKHM	75/6/24		14.0	7.10		21	0.002	<0.01	<0.01	0.300		<0.01	0.10
UKHM	75/7/16		16.0	7.55		29	0.003	0.01	0.01	0.250		<0.01	0.10
UKHM	75/8/15		12.0	7.60		26	<0.002	<0.01	0.02	0.200		<0.01	0.24
UKHM	75/9/16		7.0	7.65		2	<0.003	<0.01	<0.01	0.200		<0.01	0.08
UKHM	75/10/15		1.0	8.00		7	<0.002	<0.01	<0.01	0.200		<0.01	0.12
UKHM	76/5/17		4.0	7.85		3	<0.02	<0.01	<0.01	<0.01		<0.01	0.06
UKHM	76/6/17		12.0	7.7		9	<0.004	<0.01	<0.01	<0.01		<0.01	0.06
UKHM	76/7/15		12.0	8.0		8	<0.004	<0.01	<0.01	<0.01		<0.01	<0.01
UKHM	76/8/17		12.0	8.15		7	<0.004	<0.01	<0.01	<0.01		<0.01	0.08
UKHM	76/9/16		8.0	8.1		10	<0.004	<0.01	<0.01	<0.01		<0.01	0.07
UKHM	76/10/14		2.0	7.8		3	<0.004	<0.01	<0.01	<0.01		<0.01	0.02
UKHM	77/6/15		15.0	7.8		2	0.004	<0.01	<0.01	<0.01		<0.01	<0.01
UKHM	77/7/18		15.0	8.1		2	<0.002	<0.01	<0.01	0.020		0.01	0.02
UKHM	77/8/18		13.0	8.5		39	0.005	<0.01	<0.01	0.290		<0.01	0.01
UKHM	77/9/15		6.0	8.1		30	0.004	0.01	0.01	0.010		0.01	0.01
UKHM	77/10/17		0.0	7.9		12	<0.010	0.01	0.01	0.010		0.01	0.01
UKHM	78/5/16		4.0	7.9		6	0.002	0.01	0.02	0.220		0.01	0.24
UKHM	78/6/15		13.0	8.4		30	<0.002	0.01	0.01	0.090		0.01	0.05
UKHM	78/7/13		17.0	8.0		15	0.002	0.01	0.01	0.010		0.02	0.04
UKHM	78/8/16		13.0	8.2		16	<0.002	0.01	0.01	0.010		0.01	0.01
UKHM	78/9/19		6.0	8.1		19	<0.002	0.01	0.01	0.010		0.01	0.01
UKHM	78/10/16		3.0	8.2		26	0.002	0.01	0.01	0.010		0.01	0.01
UKHM	79/4/1		0.0	7.8		3			<0.01	0.020		<0.01	<0.01
UKHM	79/6/1		8.0	7.88		4	<0.002	0.01	0.01	0.070		0.17	0.01
UKHM	79/7/1		15.0	8.06		7	0.002	0.01	0.01	0.010		0.06	0.01
UKHM	79/8/1		9.0	8.41		9	0.002	0.01	0.01	0.010		0.01	0.01
UKHM	79/9/1		4.0	8.13		10	<0.002	0.01	0.01	0.010		0.01	0.01
UKHM	79/10/1		1.0	8.31		8	<0.002	<0.01	<0.01	0.010		<0.01	0.03
UKHM	79/11/1		1.0	7.98		6	0.002	0.01	0.01	0.010		0.01	0.12
UKHM	79/12/1		2.0	7.34		7		0.01	0.01	0.010		0.01	0.01
UKHM	80/1/16		0.0	8.02		6		0.01	0.01	0.010		0.01	0.03
UKHM	80/2/13		1.0	7.87		5		0.01	0.01	0.020		0.01	0.07
UKHM	80/3/25			7.35		4		0.01	0.01	0.010		0.01	0.01

STATION NUMBER: 2DD-S11													
STATION DESCRIPTION: South McQuesten River downstream of the Flat Creek confluence													
SAMPLER	DATE	FLOW	TEMP	pH	COND	NFR	As	Cd	Cu	Fe	Mn	Pb	Zn
		(cms)	(oC)	lab	(umhos/cm)		Ext	Ext	Ext	Ext	Ext	Ext	Ext
UKHM	80/4/22		3.0	8.06		5		0.01	0.01	0.080		0.01	0.01
UKHM	80/5/16		5.0	8.56		9		0.01	0.01	0.180		0.01	0.10
UKHM	80/6/17			7.49		20		0.03	0.01	0.220		0.01	0.01
UKHM	80/7/16		15.0	8.17		3		0.01	0.01	0.190		0.01	0.01
UKHM	80/8/6		10.0	7.86		4		0.01	0.01	0.350		0.01	0.25
UKHM	80/9/2		9.0	8.24		4		0.02	0.01	0.540		0.01	0.07
UKHM	80/10/30		2.0	7.96		7	0.002	0.01	0.01	0.010		0.01	0.01
UKHM	81/10/19		0.1	8.09		5		0.010	0.010	0.030	0.000	0.01	0.010
UKHM	81/11/16		0.1	8.30		6		0.010	0.010	0.210	0.000	0.01	0.030
UKHM	81/12/16		0.1	7.68		104		0.010	0.010	0.310	0.000	0.01	0.020
UKHM	82/2/17		0.1	7.14		5		0.010	0.010	0.200	0.000	0.01	0.070
UKHM	82/3/18		0.0	8.41		6		0.010	0.010	0.080	0.000	0.01	0.010
UKHM	82/4/26		0.0	7.77		5		0.010	0.050	0.160	0.000	0.01	1.500
UKHM	82/5/25		3.0	8.41		8		0.010	0.020	0.530	0.000	0.01	0.240
UKHM	82/6/17		15.0	8.06		6		0.010	0.010	0.200	0.000	0.01	0.140
UKHM	82/7/19		13.0	7.80		7		0.020	0.010	0.460	0.000	0.01	0.090
UKHM	82/8/11		0.0	7.85		2		0.010	0.020	0.300	0.000	0.01	0.100
UKHM	82/9/28		4.0	7.87		3		0.010	0.010	0.200	0.000	0.01	0.330
UKHM	82/10/20		5.0	7.97		3		0.010	0.010	0.140	0.000	0.01	0.130
UKHM	82/12/14		3.0	8.01		8		<0.01	0.020	0.110	0.000	<0.01	0.040
UKHM	83/7/27		0.0	7.90		14		0.010	0.040	0.010	0.000	0.01	<0.01
UKHM	83/8/25		13.0	8.17		11		0.010	<0.01	0.330	0.000	0.01	0.070
UKHM	83/9/22		0.0	7.96		4		0.010	<0.01	0.370	0.000	<0.01	1.440
UKHM	83/10/27		1.0	8.09		7		<0.01	<0.01	0.180	0.000	<0.01	0.060
UKHM	83/12/13		0.0	7.55		6		<0.01	<0.01	0.230	0.000	<0.01	0.010
UKHM	84/1/4		0.0	7.46	420	<1		<0.01	<0.01	0.160	0.000	<0.01	0.060
UKHM	84/1/26		0.0	7.44		0		<0.01	<0.01	0.140	0.000	<0.01	<0.01
UKHM	84/3/28		0.0	7.52		7		<0.01	<0.01	0.270	0.000	<0.01	0.020
UKHM	84/6/4		11.0	7.51		5		0.010	<0.01	0.100	0.000	<0.01	0.070
UKHM	84/6/27		0.0	7.76		5		<0.01	<0.01	0.200	0.000	<0.01	0.010
UKHM	84/7/25		0.0	6.97		5		<0.01	<0.01	0.080	0.000	<0.01	0.040
UKHM	84/9/27		0.0	7.42		5		0.010	0.010	0.060	0.000	<0.01	0.040
UKHM	84/11/3		0.0	7.53		3		0.030	0.020	0.010	0.000	<0.01	0.150

STATION NUMBER: 2DD-S11													
STATION DESCRIPTION: South McQuesten River downstream of the Flat Creek confluence													
SAMPLER	DATE	FLOW	TEMP	pH	COND	NFR	As	Cd	Cu	Fe	Mn	Pb	Zn
		(cms)	(oC)	lab	(umhos/cm)		Ext	Ext	Ext	Ext	Ext	Ext	Ext
UKHM	85/5/29		0.0	8.11		19		<0.01	0.010	0.600	0.000	<0.1	0.230
UKHM	85/6/26		0.0	7.84		6		0.010	0.010	0.920	0.000	0.01	0.030
UKHM	85/7/31		0.0	7.93		<1		0.020	0.010	0.480	0.000	0.01	0.200
UKHM	85/9/6		5.0	7.81		<1		0.010	<0.01	0.080	0.000	<0.01	0.080
UKHM	85/10/17		0.0	7.88		8		<0.01	<0.01	0.200	0.000	<0.01	0.280
UKHM	85/11/27		0.0	7.46	590	<1		0.010	0.020	0.120	0.000	0.01	0.070
UKHM	86/2/4		0.0	7.75	445	<1		<0.01	<0.01	0.310	0.000	<0.01	0.060
UKHM	86/5/28		0.0	7.60	151	12		0.010	<0.01	0.540	0.000	0.01	0.290
UKHM	86/7/1		0.0	7.98	248	<1		0.010	<0.01	0.190	0.000	<0.01	0.010
UKHM	86/7/31		0.0	7.28	340	<1		0.010	<0.01	0.170	0.000	<0.01	0.010
UKHM	86/9/3		0.0	7.95	500	1		0.010	0.010	0.430	0.000	<0.01	0.240
UKHM	86/10/12		0.0	8.43	486	14		<0.01	0.010	0.260	0.000	<0.5	0.090
UKHM	86/11/1		0.0	7.99	331	3		0.010	0.020	0.200	0.000	0.50	0.060
UKHM	87/6/4		8.0	7.69	178	28		0.010	0.010	1.240	0.000	0.02	0.260
UKHM	87/7/16		0.0	8.18	315	26		0.010	0.010	0.230	0.000	0.01	0.080
UKHM	87/8/4		12.0	8.26	445	5		0.010	<0.01	0.150	0.000	<0.01	0.040
UKHM	87/9/24		4.0	8.02	365	3		0.010	<0.01	0.200	0.000	<0.01	0.160
UKHM	87/10/16		1.0	7.53	465	4		<0.01	<0.01	0.180	0.000	0.01	0.380
UKHM	89/5/4		5.0	7.54	150	0		0.010	0.010	0.030	0.230	0.00	0.470
UKHM	89/5/31		13.0	7.71	280	20		0.000	0.000	0.150	0.050	0.05	0.140
UKHM	89/7/3		17.0	7.89	435	12		0.010	0.000	0.320	0.070	0.35	0.080
UKHM	89/7/30		14.0	7.97	550	16		0.010	0.020	0.300	0.080	0.06	0.250
UKHM	89/9/13		10.0	8.07	530	4		0.010	0.020	0.190	0.040	0.08	0.270
UKHM	89/10/16		3.0	8.28	445	8		0.000	0.000	0.130	0.270	0.00	0.290
UKHM	89/11/14		0.0		440	30		0.000	0.000	0.090	0.160	0.01	0.240
UKHM	89/12/27		0.0		330	14		0.010	0.000	0.090	0.010	0.02	0.110
UKHM	90/2/2		0.0	7.67	280	10		0.010	0.010	0.050	0.080	0.08	0.100
UKHM	90/4/1		1.0	8.22	330	32		0.010	0.010	0.080	0.110	0.00	0.040
UKHM	90/4/28		3.0	7.86	340	24		0.000	0.020	0.050	0.130	0.00	0.010
UKHM	90/5/19		11.8	7.10	168	12		0.000	0.020	0.040	0.030	0.01	0.160
UKHM	90/7/4		13.0	7.73	380	24		0.010	0.010	0.090	0.040	0.07	0.000
UKHM	90/8/2		10.0	7.70	430	8		0.010	0.010	0.020	0.020	0.10	0.000
UKHM	90/8/31		8.0	7.79	360	32		<0.01	0.010	0.180	0.030	0.02	0.030

STATION NUMBER: 2DD-S11													
STATION DESCRIPTION: South McQuesten River downstream of the Flat Creek confluence													
SAMPLER	DATE	FLOW	TEMP	pH	COND	NFR	As	Cd	Cu	Fe	Mn	Pb	Zn
		(cms)	(oC)	lab	(umhos/cm)		Ext	Ext	Ext	Ext	Ext	Ext	Ext
UKHM	90/9/28		7.0	8.04	200	16		0.020	0.020	0.280	0.070	0.31	0.050
UKHM	90/10/30		0.5	7.67	410	24		<0.01	<0.01	0.080	0.050	0.50	<0.01
UKHM	90/11/30		0.5	7.80	380	16		<0.01	<0.01	0.100	0.020	0.01	<0.01
UKHM	90/12/20		0.5	7.01	240	12		<0.01	<0.01	0.180	0.010	0.01	<0.01
UKHM	91/4/29		10.0	7.92	160	8		<0.01	<0.01	0.090	<0.01	<0.01	<0.01
UKHM	91/5/22		5.3	7.20	180	<1		0.080	<0.01	0.170	<0.01	0.01	0.120
UKHM	91/6/22		13.0	8.32	200	4		0.010	<0.01	0.280	0.030	<0.01	0.020
UKHM	91/7/31		12.0	7.90	220	8		0.020	<0.01	0.110	0.030	<0.01	0.120
UKHM	91/8/20		8.0	7.71	120	12		0.010	0.010	0.170	0.010	<0.01	0.080
UKHM	91/9/16		8.0	7.62	160	4		0.010	0.010	0.080	0.080	<0.01	0.030
UKHM	91/10/23		1.5	7.27	280	8		0.010	0.010	0.420	0.020	0.02	0.370
UKHM	91/11/19		1.0	7.65	260	12		0.010	<0.01	2.310	0.010	<0.01	0.120
UKHM	91/12/16		0.5	7.68	240	16		<0.01	0.010	0.790	0.090	<0.01	0.160
UKHM	92/1/24		0.5	7.62	220	12		<0.01	<0.01	0.310	0.050	<0.01	0.310
UKHM	92/1/27		0.5	7.64	230	4		<0.01	<0.01	0.180	<0.01	0.02	0.080
UKHM	92/3/20		0.5	7.75	230	4		<0.01	0.010	0.100	0.010	<0.01	0.050
UKHM	92/3/20		0.5	7.69	240	8		<0.01	0.010	0.200	0.020	0.01	0.100
UKHM	92/4/23		1.0	7.32	280	4		<0.01	0.010	0.030	<0.01	<0.01	0.080
UKHM	92/6/25		7.0	7.63	181	8		0.010	0.020	0.150	0.070	0.01	0.140
UKHM	92/7/29		10.0	7.78	360	8		0.010	0.020	0.040	0.060	0.01	0.120
UKHM	92/8/28		7.0	7.26	420	4		0.010	0.010	0.080	0.060	<0.01	0.170
UKHM	92/10/5		2.0	7.70	380	4		0.020	0.020	0.090	0.190	0.02	0.020
UKHM	92/10/28		0.1	7.90	394	8		0.020	0.020	0.090	0.010	0.05	0.010
UKHM	92/11/18		0.1	7.57	380	4		0.010	0.010	0.160	0.120	0.02	0.010
UKHM	92/12/14		0.1	7.58	520	4		<0.01	0.020	0.310	0.030	0.02	<0.01
UKHM	93/1/29		0.1	7.41	360	8		<0.01	0.010	1.370	0.010	<0.01	0.020
UKHM	93/2/24		1.0	7.33	355	8		<0.01	0.020	2.170	0.010	0.01	0.020
UKHM	93/3/22		0.1	7.70	360	8		0.010	0.010	0.080	<0.01	<0.01	0.030
UKHM	93/4/24		2.0	7.54	270	12		0.020	0.010	0.190	<0.01	0.01	0.030
UKHM	93/5/26		5.0	7.50	210	0		<0.01	0.010	0.120	0.020	<0.01	0.130
UKHM	93/6/28		7.0	7.68	280	0		0.010	0.020	0.170	0.020	<0.01	0.010
UKHM	93/7/21		15.5	8.30	397	8		0.020	0.010	0.130	0.040	<0.01	0.010
UKHM	93/8/25		5.0	7.99	400	12		<0.01	0.010	0.030	0.030	<0.01	0.020

STATION NUMBER: 2DD-S11													
STATION DESCRIPTION: South McQuesten River downstream of the Flat Creek confluence													
SAMPLER	DATE	FLOW	TEMP	pH	COND	NFR	As	Cd	Cu	Fe	Mn	Pb	Zn
		(cms)	(oC)	lab	(umhos/cm)		Ext	Ext	Ext	Ext	Ext	Ext	Ext
UKHM	93/9/29		1.0	7.90	420	8		0.010	0.010	0.210	0.140	<0.01	0.040
UKHM	93/10/26		1.5	7.80	380	8		<0.01	0.010	0.090	0.020	0.01	0.080
UKHM	93/11/25		1.0	7.60	360	4		0.010	<0.01	0.100	0.020	0.01	0.080
UKHM	93/12/16		1.5	7.60	320	4		0.010	<0.01	0.040	0.030	0.01	0.080
UKHM	94/1/27		1.0	7.70	320	4		0.010	0.010	0.140	0.070	0.02	0.050
UKHM	94/2/24		1.0	7.60	330	8		0.010	0.010	0.180	0.220	0.02	0.070
UKHM	94/3/28		2.0	7.60	360	4		0.010	0.010	0.100	0.110	0.02	0.090
UKHM	94/4/23		3.0	7.90	340	8		0.010	0.010	0.210	0.090	0.01	0.030
UKHM	94/6/1		7.7	7.80	200	8		<0.01	<0.01	0.480	0.040	0.03	0.050
UKHM	94/6/27		10.0	7.90	200	4		0.030	0.020	0.040	0.030	0.03	0.040
UKHM	94/7/29		12.6	7.90	460	8		<0.01	<0.01	0.210	0.220	0.01	0.090
UKHM	10/31/94		0.6	7.70	280	0		<0.001	0.004	0.600	0.100	0.020	0.062
UKHM	11/29/94		0.6	7.49	450	0		0.001	<0.002	0.400	0.155	0.015	0.064
UKHM	1/5/95		0.5	7.83	470	0		<0.001	<0.002	0.200	0.066	0.005	0.048
UKHM	2/9/95		0.5	7.20	480	0		<0.001	<0.002	0.200	0.064	0.005	0.054
UKHM	3/29/95		1.0	7.20	400	12		0.001	0.002	1.000	0.290	0.020	0.056
UKHM	4/27/95		1.0	8.49	295	4		0.001	0.002	0.200	0.200	0.020	0.230
UKHM	5/3/95		2.0	8.17	160	8		0.002	0.006	0.400	0.140	0.070	0.290
UKHM	6/6/95		9.0	7.40	390	32		<0.001	0.002	0.400	0.072	0.025	0.048
UKHM	8/11/95		12.0	7.72	195	0		<0.001	0.004	<0.2	0.050	0.050	0.082
UKHM	9/3/95		10.0	8.10	190	0		<0.001	<0.002	0.200	0.038	<0.005	0.028

STATION: Bellekeno adit 2DD-S12 Before Treatment								
Sampled by		DIAND	DIAND	DIAND	DIAND	DIAND	DIAND	LES
					& UKHM	& UKHM	& UKHM	
DATE		85/7/16	86/8/5	86/11/19	91/5/22	92/10/28	93/7/2	94/7/27
FLOW	(L/s)	1.4		53igpm	1.9	2	2.2	1.3
TEMP	(°C)	3.8		2.7	2.7	1.6	3.7	3.9
pH	insitu	6.9		7.9	7.3	8.4	8.1	8.08
	lab	8		8.1	8.3		8	8.1
COND	insitu	510		700	279	1316	1300	1130
(umhos/cm)	lab	880		1225	489		1280	1200
DISSOLVED	OXYGEN							12.4
COLOUR	(FTU)							<5
TURBIDITY	(FTU)		130				0.35	<1
T. Alkalinity	CaCO ₃		197				180	171
T. Hardness	CaCO ₃	471	814				774	
Sulphate			500				556	540
Cl			1.2				0.9	<5
PO ₄								
NO ₂			0.047				<0.002	<5
NO ₃								<1
NH ₃		0.155	0.54				0.007	<0.05
NFR		19	341		<5	<10	<10	<5
Ag	Ext						<0.5	
As	Ext		0.75				<3	
B	Ext		<0.001				2	
Ba	Ext		0.015				<0.05	
Be	Ext		<0.001				<0.05	
Ca	Ext		243				240	
Cd	Ext		0.167		0.01	0.054	<0.3	
Co	Ext		0.091				<0.3	
Cr	Ext		0.02				<0.3	
Cu	Ext		0.358		<0.01	<0.005	<0.3	
Fe	Ext		16		0.09	<0.03	<0.3	
Mg	Ext		36.7				40	
Mn	Ext		4.01		0.08	1.55	1.4	
Mo	Ext		0.073				<0.5	
Na	Ext		1.9				20	
Ni	Ext		0.06				<1	
P	Ext		0.28				<5	
Pb	Ext		5.01		<0.05	<0.05	<3	
Sb	Ext		0.11				<3	
Se	Ext		0.28				<3	
Si	Ext		6.2				3	
Sn	Ext		0.03				<3	
Sr	Ext		0.412				0.3	
Ti	Ext		0.002				<0.1	
V	Ext		0.023				<0.5	
Zn	Ext		6.12		0.44	5.04	6.38	

STATION: Bellekeno adit 2DD-S12 Before Treatment								
	Sampled by	DIAND	DIAND	DIAND	DIAND	DIAND	DIAND	LES
					& UKHM	& UKHM	& UKHM	
DATE		85/7/16	86/8/5	86/11/19	91/5/22	92/10/28	93/7/21	94/7/27
Ag	Total						<0.0006	< 0.001
As	Total	<0.05	1.48				<3	< 0.02
B	Total	0.01	0.096				1.9	
Ba	Total	0.021	0.072				<0.06	0.0037
Be	Total		<0.001				<0.06	< 0.0002
Ca	Total	158	248				242	233
Cd	Total	<0.002	0.195				<0.3	0.0275
Co	Total	<0.005	0.139				<0.3	< 0.001
Cr	Total	<0.005	0.038				<0.3	< 0.001
Cu	Total	<0.005	0.395				<0.3	< 0.002
Fe	Total	2.59	26.8				0.5	0.068
Mg	Total	15.1	37.9				40	49.2
Mn	Total	0.514	4.15				1.4	0.563
Mo	Total	<0.005	0.128				<0.6	< 0.005
Na	Total	1.5	2.1				20	1.98
Ni	Total	<0.02	0.08				<1	0.035
P	Total		0.41				<6	< 0.06
Pb	Total	0.02	5.68				<3	< 0.01
Sb	Total	<0.05	0.4				<3	< 0.02
Se	Total	<0.05	0.52				<3	< 0.02
Si	Total	4.1	17.6				8.1	3.6
Sn	Total	<0.01	0.13				<3	< 0.01
Sr	Total	0.206	0.448				0.3	0.39
Ti	Total	0.015	0.325				<0.1	< 0.001
V	Total	<0.005	0.052				<0.6	0.005
Zn	Total	0.211	7.71				6.39	4.4

STATION: Bellekeno adit 2DD-S12 Before Treatment								
	Sampled by	DIAND	DIAND	DIAND	DIAND	DIAND	DIAND	LES
					& UKHM	& UKHM	& UKHM	
DATE		85/7/16	86/8/5	86/11/19	91/5/22	92/10/28	93/7/21	94/7/27
Ag	Diss							< 0.001
As	Diss							< 0.02
B	Diss							
Ba	Diss							0.0036
Be	Diss							< 0.0002
Ca	Diss							225
Cd	Diss							0.0276
Co	Diss							< 0.001
Cr	Diss							< 0.001
Cu	Diss							< 0.002
Fe	Diss							0.033
Mg	Diss							48.2
Mn	Diss							0.562
Mo	Diss							< 0.005
Na	Diss							1.95
Ni	Diss							0.034
P	Diss							< 0.06
Pb	Diss							< 0.01
Sb	Diss							< 0.02
Se	Diss							< 0.02
Si	Diss							3.56
Sn	Diss							< 0.01
Sr	Diss							0.38
Ti	Diss							< 0.001
V	Diss							0.005
Zn	Diss							4.37

STATION: Bellekeno adit 2DD-S12 After Treatment			
	Sampled by:	LES	DIAND
DATE		95/7/12	95/8/3
FLOW	(L/s)		
TEMP	(°C)		9.9
pH	insitu	7.92	8.4
	lab	7.9	7.9
COND	insitu	1063	1197
(umhos/cm)	lab		1100
DISSOLVED OXYGEN			
COLOUR	(FTU)		
TURBIDITY	(FTU)		5
T. ALKALINITY CaCO ₃		152	164
T. HARDNESS CaCO ₃			779
Sulphate		546	553
Cl			<5
PO ₄			
NO ₂			<10
NO ₃			<1
NH ₃			<0.05
NFR		< 5.	10

STATION: Bellekeno adit 2DD-S12 After Treatment			
Sampled by:		LES	DIAND
DATE		95/7/12	95/8/3
FLOW	(L/s)		
Ag	Total	< 0.001	<0.001
As	Total	0.03	<0.02
B	Total		
Ba	Total	0.0094	0.0062
Be	Total	< 0.0002	<0.0002
Ca	Total	251	239
Cd	Total	< 0.0005	<0.0005
Co	Total	0.001	<0.001
Cr	Total	< 0.001	<0.001
Cu	Total	0.018	0.010
Fe	Total	0.346	0.221
Mg	Total	44.4	43.8
Mn	Total	0.531	0.422
Mo	Total	< 0.005	<0.005
Na	Total	1.92	1.49
Ni	Total	0.016	0.010
P	Total	< 0.06	<0.05
Pb	Total	0.01	<0.01
Sb	Total	< 0.02	<0.02
Se	Total	< 0.02	<0.02
Si	Total	4.81	3.24
Sn	Total	< 0.01	<0.01
Sr	Total	0.41	0.28
Ti	Total	0.002	<0.001
V	Total	< 0.002	<0.002
Zn	Total	0.162	0.174

STATION: Bellekeno adit 2DD-S12 After Treatment			
Sampled by:		LES	DIAND
DATE		95/7/12	95/8/3
FLOW	(L/s)		
Ag	Dissolved	< 0.001	
As	Dissolved	< 0.02	
B	Dissolved		
Ba	Dissolved	0.0091	
Be	Dissolved	< 0.0002	
Ca	Dissolved	208	
Cd	Dissolved	< 0.0005	
Co	Dissolved	< 0.001	
Cr	Dissolved	< 0.001	
Cu	Dissolved	0.018	
Fe	Dissolved	0.019	
Mg	Dissolved	37.3	
Mn	Dissolved	0.454	
Mo	Dissolved	< 0.005	
Na	Dissolved	1.91	
Ni	Dissolved	0.014	
P	Dissolved	< 0.06	
Pb	Dissolved	< 0.01	
Sb	Dissolved	0.02	
Se	Dissolved	< 0.02	
Si	Dissolved	4.26	
Sn	Dissolved	< 0.01	
Sr	Dissolved	0.38	
Ti	Dissolved	0.001	
V	Dissolved	< 0.002	
Zn	Dissolved	0.073	

STATION: 2DD-S12, BELLEKENO ADIT

SAMPLED BY: UKHM

STATION	DATE	TEMP	FLOW	NOTES	pH	COND	NFR	NIDE_T	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
			L/s					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2DD-S12	1/3/84	0.0	0.0		7.85	700	236	0.00	0.010	<0.01	4.130	0.000	<0.01	0.850
2DD-S12	10/17/85	0.0	0.0		7.88	0	48	0.00	<0.01	<0.01	1.640	0.000	<0.01	0.180
2DD-S12	11/28/85	1.0	0.0		7.67	680	46	0.00	0.010	0.010	1.320	0.000	0.01	0.220
2DD-S12	2/4/86	4.0	0.0		7.84	770	118	0.00	<0.01	<0.01	3.930	0.000	<0.01	0.360
2DD-S12	3/21/86	2.0	0.0	S.S. = 1537 Pb = 14.8	7.82	1870	999	0.00	0.860	1.830	43.400	0.000	14.80	23.400
2DD-S12	4/30/86	0.0	0.0		7.79	1400	30	0.00	0.020	0.050	2.480	0.000	1.23	1.460
2DD-S12	5/28/86	0.0	0.0		7.89	1370	236	0.00	0.070	0.130	11.500	0.000	2.68	2.840
2DD-S12	7/1/86	0.0	0.0		7.95	960	444	0.00	0.140	0.130	20.200	0.000	3.86	8.060
2DD-S12	7/30/86	0.0	3.0		7.99	1080	264	0.00	0.020	0.070	5.210	0.000	0.73	1.420
2DD-S12	9/3/86	0.0	3.0		7.71	1162	58	0.00	0.030	0.020	2.930	0.000	0.76	1.480
2DD-S12	10/12/86	0.0	0.0		8.29	1110	27	0.00	0.020	0.010	0.580	0.000	<0.5	1.140
2DD-S12	11/1/86	0.0	2.8		8.09	1100	22	0.00	0.060	0.140	13.300	0.000	1.79	2.860
2DD-S12	12/3/86	0.0	2.4		8.05	1040	7	0.00	0.040	<0.01	2.180	0.000	0.07	1.700
2DD-S12	1/14/87	2.0	0.0		8.14	1200	529	0.00	0.130	0.170	36.800	0.000	3.72	7.020
2DD-S12	2/4/87	0.0	0.0		8.27	1190	226	0.00	0.040	0.020	10.040	0.000	1.84	2.130
2DD-S12	3/11/87	1.0	0.0		8.08	1580	257	0.00	0.080	0.120	29.400	0.000	1.78	2.560
2DD-S12	4/3/87	0.0	0.0		8.15	1040	138	0.00	0.030	0.030	7.530	0.000	0.51	1.620
2DD-S12	5/5/87	3.0	0.0		8.01	980	253	0.00	0.030	0.020	5.940	0.000	0.33	1.340
2DD-S12	6/3/87	6.0	0.0		8.21	900	999	0.00	0.050	0.130	24.200	0.000	1.23	3.320
2DD-S12	7/16/87	2.0	0.0		8.23	790	58	0.00	0.040	0.020	8.040	0.000	1.14	4.060
2DD-S12	8/4/87	7.0	0.0		8.25	960	279	0.00	0.020	0.020	2.930	0.000	0.36	0.460
2DD-S12	9/24/87	3.0	0.0		8.12	382	18	0.00	0.010	<0.01	1.040	0.000	0.04	0.180
2DD-S12	10/22/87	5.0	0.0		6.90	350	3	0.00	0.400	0.010	0.140	0.000	0.01	7.740
2DD-S12	11/26/87	5.0	0.0		7.14	465	15	0.00	0.030	0.010	1.600	0.000	0.08	0.460
2DD-S12	1/7/88	1.0	0.0		7.90	592	5	0.00	0.010	0.010	0.530	0.000	0.01	0.630
2DD-S12	5/4/89	3.0	1.0		7.72	360	2	0.00	0.010	0.000	0.050	0.110	0.00	0.300
2DD-S12	5/31/89	3.0	1.5		8.00	350	24	0.00	0.010	0.000	0.330	0.120	0.03	0.280
2DD-S12	7/3/89	4.0	1.5		7.96	540	16	0.00	0.040	0.000	0.000	0.300	0.00	0.940
2DD-S12	7/30/89	3.0	0.0		7.92	460	6	0.00	0.040	0.040	0.260	0.220	0.00	1.370
2DD-S12	9/13/89	2.0	6.0		7.99	470	8	0.00	0.030	0.010	0.000	0.160	0.07	1.000
2DD-S12	10/16/89	0.0	1.0		8.14	480	2	0.00	0.020	0.100	0.030	0.220	0.00	1.010

STATION: 2DD-S12, BELLEKENO ADIT

SAMPLED BY: UKHM

STATION	DATE	TEMP	FLOW	NOTES	pH	COND	NFR	NIDE_T	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
			L/s					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2DD-S12	4/28/90	5.0	8.0		7.87	950	32	0.00	0.020	0.030	0.200	0.000	0.00	0.380
2DD-S12	5/19/90	8.0	1.0		7.65	720	16	0.00	0.000	0.010	0.170	0.800	0.06	2.900
2DD-S12	7/4/90	4.0	3.0		7.97	680	12	0.00	0.030	0.010	0.040	0.840	0.15	3.200
2DD-S12	8/2/90	5.0	2.7		7.80	740	24	0.00	0.040	0.120	8.000	0.080	0.15	3.200
2DD-S12	8/31/90	4.0	2.7		7.85	600	20	0.00	0.030	0.020	0.030	0.060	0.05	2.400
2DD-S12	9/28/90	1.0	6.7		7.91	615	16	0.00	0.020	0.010	0.040	0.200	0.49	1.300
2DD-S12	10/30/90	0.5	0.0		7.91	785	36	0.00	0.030	0.020	0.060	0.060	0.40	2.000
2DD-S12	11/30/90	0.5	3.7		7.70	800	36	0.00	0.020	0.010	0.080	0.040	0.30	1.900
2DD-S12	12/20/90	4.0	3.7		7.81	674	32	0.00	0.010	0.010	0.050	0.030	0.01	1.900
2DD-S12	1/31/91	0.0	0.0		7.85	0	-1	0.00	<0.01	<0.01	0.000	<0.01	0.00	<0.01
2DD-S12	2/28/91	10.0	0.0		8.03	0	16	0.00	0.120	0.030	0.040	<0.01	0.06	0.170
2DD-S12	3/19/91	4.0	1.0		8.06	290	16	0.00	0.080	0.720	0.970	0.020	0.07	0.130
2DD-S12	4/29/91	10.0	0.8		8.06	310	8	0.00	<0.01	0.070	<0.01	0.010	<0.01	0.060
2DD-S12	5/22/91	2.7	1.8		7.30	279	4	0.00	0.010	0.010	0.010	<0.01	0.03	0.420
2DD-S12	6/22/91	3.0	1.0		8.12	300	8	0.00	0.010	<0.01	0.040	0.060	0.02	0.390
2DD-S12	7/31/91	4.0	2.0		7.91	300	4	0.00	0.080	0.030	0.800	0.500	0.04	0.010
2DD-S12	8/20/91	4.0	1.5		7.56	480	8	0.00	0.010	<0.01	0.210	0.070	<0.01	0.210
2DD-S12	9/16/91	2.0	2.0		7.79	460	4	0.00	<0.01	0.030	0.220	0.040	0.01	0.190
2DD-S12	10/23/91	1.0	2.0		7.55	420	12	0.00	0.020	0.020	0.080	0.040	0.02	1.980
2DD-S12	11/19/91	1.0	2.0		8.15	320	12	0.00	0.020	0.010	0.420	0.060	0.05	0.440
2DD-S12	12/16/91	1.0	2.0		8.02	420	12	0.00	0.020	0.010	0.200	0.120	0.02	0.510
2DD-S12	1/24/92	2.0	2.0		8.16	420	12	0.00	0.020	<0.01	0.180	0.890	0.02	1.620
2DD-S12	2/27/92	2.0	2.0		7.38	420	8	0.00	<0.01	0.010	0.020	0.590	0.04	3.750
2DD-S12	3/20/92	2.0	2.0		8.18	400	8	0.00	<0.01	0.010	0.060	0.130	0.02	3.770
2DD-S12	4/23/92	2.0	2.0		7.96	490	8	0.00	0.010	0.010	0.010	0.730	<0.01	0.330
2DD-S12	5/27/92	2.0	2.4		7.30	480	8	0.00	0.010	0.020	0.110	1.980	<0.01	0.560
2DD-S12	6/25/92	2.0	2.4		8.02	560	12	0.00	0.010	0.010	0.100	0.090	0.01	0.560
2DD-S12	7/29/92	4.0	2.4		7.82	710	16	0.00	0.030	0.020	0.030	1.170	0.01	1.920
2DD-S12	8/28/92	3.0	2.4		7.34	660	16	0.00	0.040	0.010	0.070	1.840	0.01	2.380
2DD-S12	10/5/92	4.2	2.4		7.49	880	16	0.00	0.160	0.020	0.220	2.220	0.02	1.470
2DD-S12	10/28/92	1.6	2.0		8.40	1316	8	0.00	0.120	0.020	0.300	0.100	0.04	0.240
2DD-S12	11/18/92	1.5	2.0		7.98	860	8	0.00	0.040	0.020	0.260	1.550	0.03	0.850
2DD-S12	12/14/92	2.0	2.0		7.78	720	8	0.00	0.020	0.020	0.310	0.820	0.02	0.210

STATION: 2DD-S12, BELLEKENO ADIT

SAMPLED BY: UKHM

STATION	DATE	TEMP	FLOW	NOTES	pH	COND	NFR	NIDE_T	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
			L/s					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2DD-S12	1/29/93	3.0	2.0		7.76	720	12	0.00	0.030	0.030	0.390	0.700	0.01	1.220
2DD-S12	2/24/93	2.0	2.0		8.07	760	12	0.00	0.030	0.020	0.510	0.030	0.02	0.570
2DD-S12	3/22/93	2.0	2.0		8.01	720	12	0.00	0.030	0.020	0.120	0.010	0.02	1.670
2DD-S12	4/24/93	4.0	2.0		7.47	740	12	0.00	0.050	0.010	0.230	0.020	0.02	1.560
2DD-S12	5/26/93	4.0	2.0		7.91	580	0	0.00	0.020	0.010	0.020	0.460	0.03	2.730
2DD-S12	6/28/93	3.5	2.0		7.79	860	0	0.00	0.040	0.020	0.070	1.080	0.03	2.350
2DD-S12	7/21/93	3.7	2.2		8.10	1300	8	0.00	0.080	0.010	0.120	1.160	0.01	5.380
2DD-S12	8/25/93	2.8	2.2		7.80	970	4	0.00	0.060	0.020	0.010	0.100	0.01	4.560
2DD-S12	9/29/93	2.7	2.2		8.00	84	4	0.00	0.030	0.010	0.220	0.620	0.02	3.510
2DD-S12	10/26/93	2.4	2.2		7.40	720	4	0.00	0.040	0.010	0.170	0.090	0.02	4.360
2DD-S12	11/25/93	2.4	2.2		8.00	740	8		0.030	0.010	0.050	0.180	0.02	4.470
2DD-S12	12/16/93	3.0	2.0		7.90	780	4		0.030	0.010	0.040	0.380	0.02	4.050
2DD-S12	1/27/94	2.0	2.0		8.10	740	4		0.020	0.010	0.050	0.360	0.04	2.050
2DD-S12	2/24/94	2.0	2.0		8.00	700	8		0.020	<0.01	0.070	0.160	0.04	2.360
2DD-S12	3/28/94	3.0	2.0		8.00	710	4		0.020	0.010	0.080	0.330	0.04	3.220
2DD-S12	4/23/94	4.0	2.0		7.70	710	4		0.020	0.010	0.070	0.320	0.01	3.020
2DD-S12	5/10/94	2.0	2.0	Simultaneous with Water Resources	8.00	680	4		0.020	0.010	0.070	0.270	0.02	2.640
2DD-S12	4/23/94	4.0	2.0		7.70	710	4	0.00	0.020	0.010	0.070	0.320	0.01	3.020
2DD-S12	5/10/94	2.0	2.0		8.00	680	4	0.00	0.020	0.010	0.070	0.270	0.02	2.640
2DD-S12	6/1/94	2.4	2.0		7.80	780	4	0.00	0.010	0.010	0.080	0.220	0.15	2.750
2DD-S12	6/27/94	3.4	1.6		7.40	780	4	0.00	0.020	0.010	0.090	0.310	0.06	3.590
2DD-S12	7/29/94	3.1	1.6		8.00	1130	1	0.00	0.030	<0.01	0.290	0.980	<0.01	5.790
2DD-S12	10/31/94	2	1.2		7.6	750	32		0.270	0.010	1.420	2.540	0.290	5.410
2DD-S12	11/29/94	2	1.2		7.4	1020	36		0.090	0.020	1.760	1.960	0.050	4.240
2DD-S12	1/5/95	5	1		7.8	1000	72		0.040	0.010	1.870	2.620	0.130	2.300
2DD-S12	2/6/95	4	5.5		10.0	1550	348		0.020	0.030	2.950	0.600	0.070	0.500
2DD-S12	3/29/95	2	0.5		7.4	910	0		0.030	0.020	0.100	0.090	0.050	0.500
2DD-S12	4/27/95	4	0.5		7.2	920	8		0.040	0.010	1.130	0.550	0.000	0.160
2DD-S12	5/3/95	10	0		7.7	740	24		<0.001	<0.002	0.400	0.500	0.015	0.140
2DD-S12	6/6/95	8	2		7.1	800	24		<0.001	<0.002	0.400	0.185	0.015	0.180
2DD-S12	8/11/95	10	1.5		7.6	570	0		<0.001	<0.002	<0.2	0.090	0.015	0.140
2DD-S12	9/3/95	7	1.6		7.3	495	8		0.001	0.002	0.200	0.088	0.010	0.130

STATION: Silver King adit 2DD-S13 - Before Treatment

Sampled by:		DIAND	DIAND	DIAND	DIAND	DIAND	DIAND	DIAND	LES	LES	LES
						+UKHM	+UKHM	+UKHM			
DATE		85/7/18	86/8/6	86/11/19	91/5/22	92/10/28	93/7/21	94/6/8	94/7/27	94/10/27	95/9/5
FLOW	(L/s)	14.8	30igpm	66igpm	6.5	9	9		0.004	0.0069	
TEMP	(oC)	1		2	1.8	0.7	2.9		1.6	4.4	
pH	insitu	7.5		7.5	6.9	6.6	6.3		6.86		
	lab	7.7	7.2		7.1		5.7	6.5	6.9	6.6	7.3
COND	insitu	494		422	580	948	1015		863	884	
(umhos/cm)	lab	800	720		958		953	1000	870		1100
DISSOLVED OXYGEN									10.1		
COLOUR	(FTU)								<5		
TURBIDITY	(FTU)		53				200		200		
T. Alk.	CaCO ₃		112				9.4	59	69	55	45
T. Hardness	CaCO ₃	433	411				636				
Sulphate			250				493	440	438		562.0
Cl			0.8				1.1	<3	<2		
PO ₄											
NO ₂			<0.005				<0.002	<5	<2		
NO ₃								<0.5	<1		
NH ₃		0.363	0.074				0.093		0.13		
NFR		26	17		60	80	100	32	48	78	27
Ag	Ext						0.02				
As	Ext		0.13				0.22				
Ba	Ext		0.025				0.013				
Ca	Ext		110				167				
Cd	Ext		0.009		0.02	0.041	0.054				
Co	Ext		0.058				0.03				
Cr	Ext		0.013				<0.005				
Cu	Ext		0.069		0.07	0.385	0.485				
Fe	Ext		8.97		23.6	34.6	42.9				
Mg	Ext		28.1				28.5				
Mn	Ext		1.17		3.95	4.49	5.89				
Mo	Ext		0.048				<0.01				
Na	Ext		1.7				2.5				
Ni	Ext		0.06				0.17				
P	Ext		0.2				0.6				
Pb	Ext		<0.02		<0.05	<0.05	<0.05				
Sb	Ext		0.09				0.16				
Se	Ext		0.18				<0.05				
Si	Ext		5.9				6.77				
Sn	Ext		0.01				<0.05				
Sr	Ext		0.2				0.226				
Ti	Ext		<0.002				<0.002				
V	Ext		0.009				0.06				
Zn	Ext		0.927		2.45	2.68	3.61				

STATION: Silver King adit 2DD-S13 - Before Treatment

Sampled by:		DIAND	DIAND	DIAND	DIAND	DIAND	DIAND	DIAND	LES	LES	LES
						+UKHM	+UKHM	+UKHM			
DATE		85/7/18	86/8/6	86/11/19	91/5/22	92/10/28	93/7/21	94/6/8	94/7/27	94/10/27	95/9/5
Ag	Total						<0.0006	<0.001	0.0002	0.001	
As	Total	0.12	0.14				0.22	0.11	0.1	0.2	
B	Total	0.027	0.096				0.06				
Ba	Total	0.016	0.026				0.013	0.0147	0.0189	0.0173	
Be	Total		<0.001				0.009	0.0013	<0.0002	0.0009	
Ca	Total	120	115				167	155	149	152	
Cd	Total	0.003	0.01				0.054	0.0183	0.0158	0.0253	
Co	Total	0.006	0.059				0.029	0.026	0.023	0.029	
Cr	Total	<0.005	0.013				<0.006	0.006	<0.001	0.003	
Cu	Total	0.031	0.072				0.486	0.066	0.029	0.562	
Fe	Total	6.71	9.34				43.4	25	24	38	
Mg	Total	28.5	29.5				34.1	40.8	35	35.3	
Mn	Total	0.98	1.23				5.89	3.77	3.78	4.22	
Mo	Total	<0.005	0.048				<0.01	<0.005	<0.005	<0.005	
Na	Total	1.6	1.8				2.6	2.29	2.36	2.81	
Ni	Total	0.03	0.06				0.17	0.088	0.08	0.097	
P	Total		0.25				0.5	<0.06	0.07	0.33	
Pb	Total	<0.02	0.03				<0.06	<0.01	<0.001	<0.01	
Sb	Total	0.07	0.1				0.08	<0.02	<0.02	0.03	
Se	Total	<0.05	0.18				<0.06	<0.02	<0.001	<0.02	
Si	Total	4.9	6.3				6.76	6.54	6.17	6.06	
Sn	Total	<0.01	0.02				<0.06	<0.01	<0.01	<0.01	
Sr	Total	0.162	0.202				0.226	0.2	0.23	0.23	
Ti	Total	<0.002	0.067				<0.002	0.005	0.002	0.002	
V	Total	<0.005	0.013				0.02	0.005	0.007	0.01	
Zn	Total	0.61	0.932				3.67	2.47	2.15	1.99	

STATION: Silver King adit 2DD-S13 - Before Treatment

Sampled by:		DIAND	DIAND	DIAND	DIAND	DIAND	DIAND	DIAND	LES	LES	LES
						+UKHM	+UKHM	+UKHM			
DATE		85/7/18	86/8/6	86/11/19	91/5/22	92/10/28	93/7/21	94/6/8	94/7/27	94/10/27	95/9/5
Ag	Diss							<0.001	0.0002	< 0.001	< 0.001
As	Diss							0.09	0.05	0.04	< 0.02
B	Diss										
Ba	Diss							0.0147	0.0168	0.0167	0.0064
Be	Diss							0.0013	< 0.0002	0.0005	< 0.0002
Ca	Diss							154	131	120	160
Cd	Diss							0.0178	0.0146	0.0209	0.0179
Co	Diss							0.025	0.023	0.024	0.032
Cr	Diss							0.006	< 0.001	0.001	< 0.001
Cu	Diss							0.054	< 0.002	0.085	0.004
Fe	Diss							23.1	16.3	18.5	0.089
Mg	Diss							40.1	31.9	31.3	38.3
Mn	Diss							3.74	3.66	3.78	2.91
Mo	Diss							<0.005	< 0.005	< 0.005	<0.005
Na	Diss							2.29	2.25	2.54	3.38
Ni	Diss							0.088	0.077	0.089	0.119
P	Diss							<0.06	< 0.06	< 0.06	0.35
Pb	Diss							<0.01	< 0.001	< 0.01	< 0.005
Sb	Diss							<0.02	< 0.02	0.02	< 0.02
Se	Diss							<0.02	< 0.001	< 0.02	< 0.02
Si	Diss							6.37	5.74	5.11	3.73
Sn	Diss							<0.01	< 0.01	< 0.01	< 0.005
Sr	Diss							0.2	0.22	0.21	0.32
Ti	Diss							0.006	< 0.001	0.002	< 0.001
V	Diss							0.004	0.005	0.009	0.008
Zn	Diss							2.41	2.04	1.65	0.938

STATION: Silver King adit 2DD-S13 - After Treatment

SAMPLER		DIAND	DIAND	LES	DIAND	LES
DATE		95/1/18	95/5/16	95/7/12	95/8/3	95/9/5
Ag	Total	<0.001	<0.001	< 0.001	<0.001	
As	Total	<0.02	<0.02	< 0.02	<0.02	
B	Total					
Ba	Total	0.01	0.0068	0.0079	0.0048	
Be	Total	<0.0002	<0.0002	< 0.0002	<0.0002	
Ca	Total	202	193	186	161	
Cd	Total	0.0017	0.0018	0.0016	<0.0005	
Co	Total	0.019	0.01	0.012	0.006	
Cr	Total	<0.001	0.002	0.001	<0.001	
Cu	Total	0.002	0.039	0.014	0.008	
Fe	Total	1.34	0.853	0.801	0.271	
Mg	Total	42.4	46.7	43.8	36.9	
Mn	Total	1.57	1.01	1.3	0.796	
Mo	Total	<0.005	<0.005	< 0.005	<0.005	
Na	Total	3.22	3.3	3.21	2.35	
Ni	Total	0.074	0.041	0.052	0.033	
P	Total	<0.06	<0.06	< 0.06	<0.05	
Pb	Total	<0.01	<0.01	< 0.01	<0.01	
Sb	Total	<0.02	<0.02	< 0.02	<0.02	
Se	Total	<0.02	<0.02	< 0.02	<0.02	
Si	Total	3.66	2.1	3.18	2.42	
Sn	Total	<0.01	<0.01	< 0.01	<0.01	
Sr	Total	0.33	0.25	0.33	0.22	
Ti	Total	<0.001	0.003	0.002	<0.001	
V	Total	0.022	<0.002	< 0.002	<0.002	
Zn	Total	0.236	0.235	0.115	0.067	

STATION: Silver King adit 2DD-S13 - After Treatment

SAMPLER		DIAND	DIAND	LES	DIAND	LES
DATE		95/1/18	95/5/16	95/7/12	95/8/3	95/9/5
Ag	Diss			< 0.001		< 0.001
As	Diss			< 0.02		< 0.02
B	Diss					
Ba	Diss			0.0077		0.0094
Be	Diss			< 0.0002		< 0.0002
Ca	Diss			181		162
Cd	Diss			< 0.0005		0.0064
Co	Diss			0.01		0.02
Cr	Diss			0.001		< 0.001
Cu	Diss			0.013		0.005
Fe	Diss			0.038		0.005
Mg	Diss			42.5		36.5
Mn	Diss			1.25		2.44
Mo	Diss			< 0.005		< 0.005
Na	Diss			3.14		3.04
Ni	Diss			0.047		0.078
P	Diss			< 0.06		0.32
Pb	Diss			< 0.01		< 0.005
Sb	Diss			< 0.02		< 0.02
Se	Diss			< 0.02		< 0.02
Si	Diss			3.04		3.21
Sn	Diss			< 0.01		< 0.005
Sr	Diss			0.33		0.308
Ti	Diss			< 0.001		< 0.001
V	Diss			< 0.002		0.008
Zn	Diss			0.021		0.125

STATION: Silver King adit 2DD-S13

SAMPLED BY: UKHM

STATION	DATE	TEMP	FLOW	NOTES	pH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
			L/s					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2DD-S13	1/6/84	0.0	0.0		7.15	680	17	<0.01	<0.01	4.670	0.000	<0.01	0.580
2DD-S13	10/17/85	0.0	0.0		7.41	0	12	<0.01	<0.01	4.830	0.000	<0.01	0.660
2DD-S13	11/28/85	1.0	0.0		7.12	600	12	0.010	0.010	0.280	0.000	0.01	0.080
2DD-S13	2/4/86	1.0	0.0		7.06	658	10	<0.01	<0.01	5.200	0.000	<0.01	0.560
2DD-S13	3/21/86	1.0	0.0		7.42	620	11	<0.01	<0.01	7.180	0.000	0.01	0.730
2DD-S13	4/30/86	0.0	0.0		6.94	860	27	0.010	0.050	16.200	0.000	0.01	0.810
2DD-S13	5/28/86	0.0	0.0		6.95	660	91	0.010	0.150	24.000	0.000	0.19	1.400
2DD-S13	7/31/86	0.0	0.0		6.25	650	55	0.020	0.490	9.040	0.000	<0.01	1.280
2DD-S13	9/3/86	0.0	4.0		7.01	658	17	0.010	0.060	8.600	0.000	<0.01	0.890
2DD-S13	10/12/86	0.0	0.0		8.00	680	21	0.010	0.040	6.870	0.000	<0.5	0.840
2DD-S13	11/1/86	0.0	4.0		7.19	670	57	0.010	0.090	15.000	0.000	<0.5	0.860
2DD-S13	12/3/86	0.0	6.7		7.40	698	18	0.020	<0.01	8.600	0.000	0.02	0.920
2DD-S13	1/14/87	1.0	0.0		7.37	680	83	<0.01	0.060	46.400	0.000	<0.01	0.720
2DD-S13	2/4/87	0.0	0.0		7.47	690	112	0.010	0.020	8.660	0.000	<0.01	0.580
2DD-S13	3/16/87	0.0	0.0		6.78	700	17	0.010	0.020	8.720	0.000	0.01	0.930
2DD-S13	4/3/87	0.0	0.0		7.20	720	22	0.010	0.040	9.260	0.000	<0.01	0.630
2DD-S13	5/5/87	2.0	0.0		7.17	710	33	0.010	0.020	13.800	0.000	<0.01	0.730
2DD-S13	6/4/87	2.0	0.0		7.02	738	62	0.010	0.060	13.800	0.000	0.01	0.980
2DD-S13	7/16/87	5.0	0.0		7.23	805	--	0.010	0.070	24.600	0.000	0.01	0.760
2DD-S13	8/4/87	6.0	0.0		7.76	610	93	0.010	0.040	12.800	0.000	<0.01	0.720
2DD-S13	9/24/87	3.0	0.0		7.60	395	89	0.010	<0.01	8.320	0.000	<0.01	0.760
2DD-S13	10/16/87	5.0	0.0		7.19	1250	999	<0.01	<0.01	1.440	0.000	0.10	0.050
2DD-S13	11/26/87	0.0	0.0		7.06	560	12	0.020	0.010	7.040	0.000	0.01	0.680
2DD-S13	1/7/88	2.0	0.0		7.01	1110	287	0.020	0.020	5.350	0.000	0.01	0.430
2DD-S13	5/4/89	2.0	5.0		6.44	550	0	0.020	0.670	14.990	1.570	0.00	0.830
2DD-S13	5/31/89	3.0	3.3		6.63	580	48	0.020	0.120	11.500	1.800	0.00	1.990
2DD-S13	7/3/89	2.0	4.3		6.56	760	64	0.030	0.170	13.840	2.140	0.27	2.180
2DD-S13	7/30/89	3.0	6.6		6.81	620	46	0.050	0.280	11.730	1.940	0.00	1.890
2DD-S13	9/13/89	5.0	7.0		6.86	605	38	0.040	0.130	10.260	1.840	0.11	1.720
2DD-S13	10/16/89	1.0	6.0		7.48	445	30	0.020	0.090	11.690	1.800	0.00	1.410
2DD-S13	11/14/89	0.0	0.0		0.00	580	34	0.010	0.080	8.070	1.580	0.05	1.580
2DD-S13	12/27/89	0.0	0.0		0.00	460	36	0.010	0.040	8.770	1.540	0.00	1.110
2DD-S13	2/2/90	1.0	0.0		7.03	420	28	0.020	0.030	8.860	1.750	0.01	1.100

STATION: Silver King adit 2DD-S13

SAMPLED BY: UKHM

STATION	DATE	TEMP	FLOW	NOTES	pH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
			L/s					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2DD-S13	4/1/90	1.0	0.0		7.12	540	36	0.010	0.060	2.850	2.010	0.00	1.380
2DD-S13	4/28/90	3.0	20.0		6.81	680	44	0.010	0.080	10.460	0.000	0.00	0.220
2DD-S13	5/19/90	2.0	6.0		6.70	600	44	0.030	0.060	10.400	3.400	0.06	3.300
2DD-S13	7/4/90	3.0	6.0		6.77	545	40	0.020	0.080	12.800	3.100	0.10	2.600
2DD-S13	8/2/90	5.0	3.0		6.46	625	48	0.020	0.090	0.300	0.300	0.02	2.200
2DD-S13	8/31/90	4.0	3.0		6.64	500	32	0.030	0.150	14.000	3.100	0.04	1.900
2DD-S13	9/28/90	2.0	6.0		6.69	620	44	0.010	0.260	20.000	2.200	0.51	1.300
2DD-S13	10/30/90	0.5	6.0		6.53	800	72	0.030	0.330	20.800	3.600	0.50	1.600
2DD-S13	11/30/90	5.0	6.0		6.60	860	56	0.030	0.280	24.000	3.100	0.20	1.400
2DD-S13	12/20/90	0.5	6.0		6.74	790	48	0.020	0.220	19.000	2.600	0.09	1.200
2DD-S13	1/31/91	0.0	0.0		6.59	0	36	0.020	<0.01	0.000	2.450	0.00	<0.01
2DD-S13	2/28/91	10.0	0.0		6.64	0	20	<0.01	<0.01	0.080	1.070	0.02	1.230
2DD-S13	3/19/91	0.5	3.0		7.01	460	28	<0.01	0.200	1.230	0.880	0.01	1.240
2DD-S13	4/29/91	7.0	2.9		7.15	440	12	0.020	0.100	32.600	3.440	0.02	1.140
2DD-S13	5/22/91	1.8	6.4		6.90	580	24	0.130	0.020	13.000	0.040	0.01	2.090
2DD-S13	6/22/91	5.0	5.0		6.78	580	60	0.050	0.060	24.830	3.400	<0.01	1.240
2DD-S13	7/31/91	5.0	5.0		6.33	480	60	0.640	0.860	18.920	5.930	<0.01	0.020
2DD-S13	8/20/91	3.0	5.0		6.42	460	60	0.020	0.060	16.250	3.210	<0.01	0.990
2DD-S13	9/16/91	2.0	5.0		6.24	420	60	0.030	0.410	14.980	4.320	<0.01	0.370
2DD-S13	10/23/91	1.0	4.0		6.60	480	52	0.040	0.340	26.810	0.440	0.06	2.260
2DD-S13	11/19/91	1.0	3.5		6.61	440	48	0.020	0.140	10.340	0.610	0.04	1.110
2DD-S13	12/16/91	1.0	3.5		6.77	540	36	0.020	0.060	12.460	2.580	0.01	1.110
2DD-S13	1/24/92	0.5	3.0		6.79	460	32	0.010	0.010	14.010	3.130	0.01	2.210
2DD-S13	2/27/92	1.0	3.0		6.68	424	48	<0.01	0.020	18.020	2.200	0.05	1.800
2DD-S13	3/20/92	0.5	3.4		6.87	440	20	<0.01	0.030	15.900	1.470	0.02	1.670
2DD-S13	4/23/92	1.0	3.0		6.74	570	32	0.010	0.020	12.630	2.740	0.01	0.150
2DD-S13	5/27/92	1.0	5.0		6.21	660	40	0.020	0.070	22.040	11.230	0.01	2.230
2DD-S13	6/25/92	1.0	6.5		6.85	660	40	0.020	0.090	26.120	4.350	0.01	2.720
2DD-S13	7/29/92	34.0	5.5		6.09	660	44	0.050	0.330	20.460	7.190	0.02	4.760
2DD-S13	8/28/92	2.0	5.4		6.07	580	64	0.050	0.400	24.120	5.810	0.01	3.970
2DD-S13	10/5/92	3.0	5.4		6.01	550	48	0.120	0.540	23.100	7.300	0.02	0.500
2DD-S13	10/28/92	0.1	9.0		6.60	948	28	0.090	0.210	11.470	0.920	0.03	0.090
2DD-S13	11/18/92	0.7	9.0		6.38	520	28	0.920	0.170	16.600	3.970	0.02	0.320

STATION: Silver King adit 2DD-S13

SAMPLED BY: UKHM

STATION	DATE	TEMP	FLOW	NOTES	pH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
			L/s					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2DD-S13	12/14/92	0.1	9.0		6.67	530	28	<0.01	0.150	10.930	1.320	0.03	0.080
2DD-S13	1/29/93	0.1	9.0		6.54	560	24	0.010	0.060	10.360	2.290	0.03	0.290
2DD-S13	2/24/93	1.0	9.0		6.72	540	24	0.020	0.040	10.390	0.140	0.01	0.190
2DD-S13	3/22/93	1.0	8.0		6.59	540	24	0.020	0.030	15.130	0.070	<0.01	0.650
2DD-S13	4/24/93	2.0	8.0		6.40	610	24	0.030	0.020	12.420	0.100	<0.01	0.650
2DD-S13	5/26/93	1.0	8.0		6.19	660	0	0.030	0.180	33.400	4.220	0.03	3.980
2DD-S13	6/28/93	1.5	7.0		5.87	690	0	0.030	0.530	29.660	5.380	0.02	0.840
2DD-S13	7/21/93	2.9	9.0		6.30	1015	96	0.050	0.420	27.910	4.920	0.02	0.760
2DD-S13	8/25/93	2.7	9.0		6.70	840	40	0.030	0.160	20.040	0.480	0.02	2.010
2DD-S13	9/29/93	1.6	8.5		6.90	580	24	0.030	0.130	14.990	3.770	0.01	1.990
2DD-S13	10/26/93	1.5	8.5		6.80	580	24	0.030	0.120	15.270	0.490	0.01	2.450
2DD-S13	11/25/93	1.5	8.0		7.10	560	24	0.020	0.090	14.000	3.020	0.01	1.780
2DD-S13	12/16/93	2.0	8.0		6.90	560	12	0.020	0.060	13.190	2.820	0.02	1.530
2DD-S13	1/27/94	2.0	7.0		7.00	480	16	0.020	0.040	15.110	2.690	0.01	0.920
2DD-S13	2/24/94	0.5	7.0		6.90	580	20	0.020	0.040	15.160	3.190	0.02	1.170
2DD-S13	3/28/94	1.0	7.0		6.90	580	16	0.010	0.030	13.160	3.150	0.03	1.320
2DD-S13	4/23/94	1.0	7.0		6.90	580	16	0.010	0.020	12.150	3.110	0.03	1.320
2DD-S13	5/10/94	2.1	12.0	Simultaneous with Water Resources	6.80	680	36	0.030	0.070	19.320	3.590	0.04	2.310
2DD-S13	4/23/94	1.0	7.0		6.90	580	16	0.010	0.020	12.150	3.110	0.03	1.320
2DD-S13	5/10/94	2.1	12.0		6.80	880	36	0.030	0.070	19.320	3.590	0.04	2.310
2DD-S13	6/1/94	2.4	12.0		6.80	710	40	0.010	0.040	31.270	3.780	0.03	2.820
2DD-S13	6/27/94	3.4	13.0		6.40	760	4	0.060	0.080	24.960	3.950	0.01	2.920
2DD-S13	7/29/94	2.6	4.0		7.20	910	8	<0.01	0.060	31.700	6.050	<0.01	2.700
2DD-S13	10/31/94	1.0	6.0		6.90	600	80	0.280	0.570	41.700	5.230	0.15	2.89
2DD-S13	11/29/94	1.0	6.0		6.85	690	276	0.020	0.630	59.000	4.070	0.02	2.21
2DD-S13	1/5/95	2.0	10.0		7.78	900	16	0.000	0.010	2.840	1.030	0.07	0.09
2DD-S13	2/6/95	2.0	30.0		8.00	1110	24	0.000	0.010	1.710	0.890	0.00	0.14
2DD-S13	3/29/95	2.0	12.0		7.10	1045	8	0.040	0.030	2.550	1.820	0.00	0.81
2DD-S13	4/27/95	7.0	3.9		7.85	1020	8	0.010	0.010	2.520	2.090	0.26	0.48
2DD-S13	5/3/95	7.0	3.9		8.07	820	32	<0.001	<0.002	0.800	0.980	<0.005	0.21
2DD-S13	6/6/95	8.0	3.9		7.40	870	48	<0.001	<0.002	0.400	0.570	0.01	0.09
2DD-S13	8/11/95	10.0	4.8		8.08	470	12	0.003	0.002	1.200	1.370	0.02	0.21

STATION: Silver King adit 2DD-S13													
SAMPLED BY: UKHM													
STATION	DATE	TEMP	FLOW	NOTES	pH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
			L/s					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2DD-S13	9/3/95	7.0	5.5		7.87	500	8	0.010	0.014	2.400	1.920	0.01	0.46

STATION: LUCKY QUEEN ADIT (S14)

SAMPLED BY: UKHM

STATION	DATE	TEMP	FLOW L/s	pH	COND	NFR	CD_E mg/L	CU_E mg/L	FE_E mg/L	MN_E mg/L	PB_E mg/L	ZN_E mg/L
2DD-S14	90/3/26											
2DD-S14	90/4/27											
2DD-S14	90/5/29	5.0	0.01	7.1	150	92	0.01	0.01	0.28	0.10	0.06	0.20
2DD-S14	90/6/28	2.0	0.08	7.3	160	20	0.01	0.01	0.14	0.06	0.08	0.20
2DD-S14	90/7/29											
2DD-S14	90/8/27											
2DD-S14	90/9/27											
2DD-S14	90/10/29											
2DD-S14	90/11/30											
2DD-S14	90/12/20											
2DD-S14	91/1/29											
2DD-S14	91/2/26											
2DD-S14	91/3/28											
2DD-S14	91/4/26											
2DD-S14	91/5/20											
2DD-S14	91/6/1	4.0	0.50	8.3	80	4			0.00	0.00	0.02	0.07
2DD-S14	91/7/1	4.0	0.50	7.6	80	4			0.00	0.00	0.01	
2DD-S14	91/8/1	1.0		7.8	90	8	0.03		0.00	0.00		
2DD-S14	91/9/1											
2DD-S14	91/10/1											
2DD-S14	91/11/1											
2DD-S14	91/12/1											
2DD-S14	92/1/1											
2DD-S14	92/2/1											
2DD-S14	92/3/1											
2DD-S14	92/4/1											
2DD-S14	92/5/1	1.0	0.20	7.2	100	16	0.01	0.01	0.21	0.89	0.01	0.19
2DD-S14	92/6/1	1.0	2.00	7.5	60	4					0.01	0.02
2DD-S14	92/7/1	3.0	0.50	7.6	90	8						0.06
2DD-S14	92/8/1											
2DD-S14	92/9/1											
2DD-S14	92/10/1											
2DD-S14	92/11/1											

STATION: LUCKY QUEEN ADIT (S14)

SAMPLED BY: UKHM

STATION	DATE	TEMP	FLOW L/s	pH	COND	NFR	CD_E mg/L	CU_E mg/L	FE_E mg/L	MN_E mg/L	PB_E mg/L	ZN_E mg/L
2DD-S14	92/12/1											
2DD-S14	93/1/1											
2DD-S14	93/2/1											
2DD-S14	93/3/1											
2DD-S14	93/4/1											
2DD-S14	93/5/1	2.0	1.50	7.2	60				0.08			0.17
2DD-S14	93/6/1	2.8	1.50	7.5	90		0.01		0.11			
2DD-S14	93/7/1											
2DD-S14	93/8/1											
2DD-S14	93/9/1											
2DD-S14	93/10/1											
2DD-S14	93/11/1											
2DD-S14	93/12/1											
2DD-S14	94/1/1											
2DD-S14	94/2/1											
2DD-S14	94/3/1											
2DD-S14	94/4/24											
2DD-S14	94/5/10											
2DD-S14	94/5/31	3.1	0.20	7.9	160	8		0.01	0.27	0.10	0.06	0.12
2DD-S14	94/6/28	4.1	0.05	8.2	160	0	0.01	0.61	0.09	0.06	0.03	0.19
2DD-S14	94/7/29											
2DD-S14	94/10/31											
2DD-S14	94/11/29											
2DD-S14	95/1/5											
2DD-S14	95/2/6											
2DD-S14	95/3/29											
2DD-S14	95/4/27											
2DD-S14	95/5/3											
2DD-S14	95/6/6	2.0	0.50	6.5	255	40	0.01	0.02	0.26	0.34	0.00	0.48
2DD-S14	95/8/11											

STATION: RUBY ADIT (S15)

SAMPLED BY: UKHM

STATION	DATE	TEMP	FLOW L/s	pH	COND	NFR	CD_E mg/L	CU_E mg/L	FE_E mg/L	MN_E mg/L	PB_E mg/L	ZN_E mg/L
2DD-S15	3/26/90	0.0		7.6	330	32	0.02	0.01	ND	7.45	0.04	0.01
2DD-S15	4/27/90	3.0			330	32	0.02	0.01	ND	7.45		0.01
2DD-S15	5/29/90	5.0	0.01	7.5	372	24	0.13	0.01	3.68	5.10	0.05	3.20
2DD-S15	6/28/90	3.0	1.00	7.7	320	32	0.05	0.01	2.60	7.80	0.15	2.90
2DD-S15	7/29/90	6.0	1.33	7.7	890	20	0.03	0.01	1.70	7.90	0.15	2.70
2DD-S15	8/27/90	5.0	1.33	7.8	350	44	0.03	0.01	2.50	7.60	0.01	2.50
2DD-S15	9/27/90	1.0	3.33	7.6	400	36	0.03	0.01	8.20	6.60	0.47	3.70
2DD-S15	10/29/90	0.0	2.00	7.7	270	20	0.02	0.02	2.30	8.10	0.47	2.20
2DD-S15	11/30/90	0.0	0.67	7.8	230	16	0.01	0.01	2.01	6.80	0.08	1.10
2DD-S15	12/20/90	0.0	0.67	7.6	160	16	0.02	0.01	2.40	6.10	0.04	0.97
2DD-S15	1/29/91											
2DD-S15	2/26/91											
2DD-S15	3/28/91											
2DD-S15	4/26/91											
2DD-S15	5/20/91	2.0	1.00	7.2	268	4	0.16		0.00	0.05	0.02	2.48
2DD-S15	6/1/91	3.0	1.00	8.1	280	8	0.07		1.03	6.42		1.23
2DD-S15	7/1/91	6.0	0.24	7.8	260	12	0.41		3.70	9.10		0.03
2DD-S15	8/1/91	3.0	2.00	7.7	300	12	0.08	0.01	0.69	2.72	0.01	1.38
2DD-S15	9/1/91	2.0	2.00	7.4	260	12	0.03		0.73	5.09		0.42
2DD-S15	10/1/91	1.0	1.50	7.4	240	16	0.03		7.54	1.52	0.01	2.68
2DD-S15	11/1/91											
2DD-S15	12/1/91	0.0				0			0.00	0.00		
2DD-S15	1/1/92											
2DD-S15	2/1/92											
2DD-S15	3/1/92	0.0	0.30	7.8	260	8		0.01	1.24	1.19	0.01	0.04
2DD-S15	4/1/92	1.0	0.50	7.8	230	8		0.01	0.98	1.08	0.01	0.03
2DD-S15	5/1/92	1.0	1.50	7.2	270	8	0.12	0.01	1.33	10.74	0.02	5.23
2DD-S15	6/1/92	1.0	2.50	7.7	320	12	0.14	0.01	1.47	6.14	0.01	3.53
2DD-S15	7/1/92	3.0	2.50	7.7	370	8	0.07	0.01	0.41	9.18		4.16
2DD-S15	8/1/92	2.0	2.50	7.4	340	12	0.05	0.01	1.12	10.67		4.78
2DD-S15	9/1/92	2.0	2.00	7.9	320	16	0.13	0.03	2.32	12.37	0.02	0.09
2DD-S15	10/1/92	0.1	2.00	8.1	524	16	0.07	0.03	2.96	4.72	0.04	0.12
2DD-S15	11/1/92	0.1	2.00	7.9	360	16	0.03		1.41	7.75	0.05	0.38

STATION: RUBY ADIT (S15)

SAMPLED BY: UKHM

STATION	DATE	TEMP	FLOW	pH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
			L/s				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2DD-S15	12/1/92	0.1	1.50	7.7	320	8		0.02	0.03	2.47	0.05	0.07
2DD-S15	1/1/93											
2DD-S15	2/1/93											
2DD-S15	3/1/93											
2DD-S15	4/1/93											
2DD-S15	5/1/93	1.5	2.00	7.6	300		0.13	0.01	0.84	3.75	0.03	4.10
2DD-S15	6/1/93	1.5	2.50	7.4	340		0.06	0.03	2.19	5.39		0.60
2DD-S15	7/1/93	2.7	2.00	7.9	524	8	0.06	0.01	0.87	5.93		0.89
2DD-S15	8/1/93	2.4	2.00	7.6	480	20	0.04	0.02	0.14	1.13	0.01	2.55
2DD-S15	9/1/93	2.3	2.00	7.6	400	12	0.02	0.01	0.17	5.91		2.32
2DD-S15	10/1/93	2.0	2.00	7.9	310	12	0.02		2.10	1.09	0.01	3.22
2DD-S15	11/1/93	1.0	1.50	7.6	310	12	0.02	0.01	1.50	4.18	0.01	3.04
2DD-S15	12/1/93	1.0	1.50	7.5	290	8	0.02		1.46	5.26	0.01	2.22
2DD-S15	1/1/94	11.0	1.50	7.9	280	4	0.02		0.01	4.98	0.01	1.03
2DD-S15	2/1/94	0.5	1.50	7.9	290	8	0.01		0.02	4.82	0.01	1.05
2DD-S15	3/29/94	0.5	1.00	6.9	450	0	0.03	0.03	0.21	4.96	0.00	1.48
2DD-S15	4/24/94	2.0	2.00	7.7	300	12	0.01	0.01	1.31	3.04	0.02	1.32
2DD-S15	5/31/94	2.1	2.00	7.5	310	8	0.02	0.01	2.05	3.53	0.07	1.85
2DD-S15	6/28/94	2.8	2.00	7.6	250	4		0.02	1.76	3.48	0.02	1.73
2DD-S15	7/29/94	3.1	1.00	7.8	448	0		0.01	4.39	6.29	0.03	2.35
2DD-S15	10/31/94	0.6	1.30	8.0	290	0	0.14	0.05	3.81	5.20	0.15	2.78
2DD-S15	11/29/94	0.6	1.30	7.4	370	8	0.00	0.00	1.28	4.81	0.12	2.05
2DD-S15	1/5/95	1.0	1.00	7.8	400	0	0.01	0.00	0.18	0.10	0.16	0.26
2DD-S15	2/6/95	0.5	1.00	7.1	410	0	0.10	0.01	0.24	3.35	0.05	2.26
2DD-S15	3/1/95	2.0	1.50	7.5	300	8	0.02		0.09	4.96	0.01	1.86
2DD-S15	4/27/95	1.0	1.50	6.6	460	3	0.01	0.01	2.26	4.62	0.12	1.59
2DD-S15	5/3/95	1.0	1.50	7.2	300	2	0.03	0.02	2.00	1.23	0.02	1.95
2DD-S15	6/6/95	2.0	2.00	7.0	325	3	0.00	0.01	2.58	3.18	0.20	1.62
2DD-S15	8/11/95	2.0	2.00	7.9	270	8	0.02	0.04	2.06	3.53	0.02	1.49
2DD-S15	9/3/95	2.0	1.00	8.0	260	2	0.04	0.02	2.00	3.63	0.01	1.50

STATION: ELSA ADIT (S16)

SAMPLED BY: UKHM

STATION	DATE	TEMP	FLOW	pH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
			L/s				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2DD-S16	90/5/29	2.0	0.00	7.8	680	32	0.01	0.06	1.50	0.30	0.12	0.20
2DD-S16	90/6/28	3.0		7.8	850	20	0.01	0.02	0.84	0.20	0.13	0.10
2DD-S16	90/7/29	5.0		7.8	745	12	0.01	0.17	0.82	0.22	0.09	0.01
2DD-S16	90/8/27		6.67	7.8	400	28	0.01	0.05	1.10	1.10	0.03	0.11
2DD-S16	90/9/27	0.0		7.7	438	32	0.02	0.01	2.40	2.80	0.45	1.60
2DD-S16	90/10/29	0.0		7.7	290	24	0.01	0.01	1.80	2.80	0.43	1.20
2DD-S16	90/11/30	4.0	0.00	7.6	300	20	0.01	0.01	2.01	2.40	0.10	0.98
2DD-S16	90/12/20	5.0	0.00	7.8	280	12	0.01	0.01	1.90	2.10	0.08	0.89
2DD-S16	91/1/29	20.0		7.9	200	4	0.03	0.01		ND		0.01
2DD-S16	91/2/26	10.0		7.9	200	4	0.01	0.01	0.16	0.11	0.02	0.01
2DD-S16	91/3/28	5.0	0.00	8.0	480	4	0.01	0.03	1.18	0.08	0.02	
2DD-S16	91/4/26	8.0	0.00	8.0	520	20	0.02	0.01	0.13	0.02	0.01	0.05
2DD-S16	91/5/20	8.0	0.00	7.5	440	12	0.21	0.39	10.51	16.23	0.01	2.37
2DD-S16	91/6/1	4.0	0.00	8.3	445	12	0.04	0.14	5.21	2.64		0.21
2DD-S16	91/7/1	4.0	0.00	7.2	380	12	0.45	0.72	2.20	2.22	0.01	
2DD-S16	91/8/1	4.0	0.00	7.7	420	12	0.06	0.03	0.57	3.40		0.06
2DD-S16	91/9/1	4.0	0.00	7.7	450	12	0.04	0.03	0.59	3.20		0.05
2DD-S16	91/10/1	0.0	0.00	7.7	280	24	0.01		2.12	2.01		0.03
2DD-S16	91/11/1	2.0	0.00	8.2	500	16	0.01	0.01	0.01	5.80	0.01	0.03
2DD-S16	91/12/1	2.0	0.00	8.2	520	12	0.01	0.01	0.01	0.48		0.07
2DD-S16	92/1/1	2.0	0.00	8.3	560	12			1.24	0.47	0.01	0.36
2DD-S16	92/2/1	2.0	0.00	8.0	600	8		0.01	0.97	0.01	0.03	0.16
2DD-S16	92/3/1	2.0	0.00	8.3	600	12		0.02	0.81	0.01	0.02	0.08
2DD-S16	92/4/1	1.0	0.00	8.4	580	12		0.01	1.26	0.21	0.01	0.04
2DD-S16	92/5/1	2.0	0.00	7.3	330	16		0.02	0.41	0.74	0.02	0.09
2DD-S16	92/6/1	4.0	0.00	7.8	550	8			0.03	0.49	0.01	0.21
2DD-S16	92/7/1	3.0	0.00	7.8	540	24	0.01	0.01	0.14	0.22	0.02	0.22
2DD-S16	92/8/1	2.0	0.00	7.3	580	16		0.01	0.68	0.35	0.02	0.09
2DD-S16	92/9/1	3.0	0.00	7.9	550	8	0.02	0.02	0.96	0.37	0.03	0.01
2DD-S16	92/10/1	4.0	0.00	8.2	580	8	0.02	0.02	1.97	0.00	0.03	0.01
2DD-S16	92/11/1	2.0	0.00	8.2	720	8	0.01	0.01	0.78	0.41	0.03	
2DD-S16	92/12/1	2.0	0.00	8.4	710	8		0.06	1.39	0.03	0.03	0.03
2DD-S16	93/1/1	2.0	0.00	8.2	760	8	0.01	0.02	1.59	0.02	0.01	0.02

STATION: ELSA ADIT (S16)

SAMPLED BY: UKHM

STATION	DATE	TEMP	FLOW	pH	COND	NFR	CD_E	CU_E	FE_E	MN_E	PB_E	ZN_E
			L/s				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2DD-S16	93/2/1	2.0	0.00	8.2	760	8	0.01	0.03	0.85	0.01	0.02	
2DD-S16	93/3/1	2.0	0.00	8.2	780	8	0.01	0.03	0.59		0.01	0.01
2DD-S16	93/4/1	6.0	0.00	7.7	920	12	0.02	0.02	0.64	0.00	0.01	0.03
2DD-S16	93/5/1	6.0	0.00	7.9	860		0.01	0.02	0.31	0.01	0.21	0.11
2DD-S16	93/6/1	4.0	0.00	7.6	800		0.01	0.03	0.81	0.02	0.03	
2DD-S16	93/7/1	5.0	0.00	7.8	680	8		0.01	0.41	0.21	0.01	
2DD-S16	93/8/1	3.0	0.00	7.8	720	8	0.01	0.02	0.04	0.04		0.12
2DD-S16	93/9/1	3.0	0.00	8.0	730	8	0.01	0.01	0.47	0.23	0.02	0.12
2DD-S16	93/10/1	3.0	0.00	8.0	640	4	0.02	0.01	0.51	0.13	0.02	0.19
2DD-S16	93/11/1	2.5	0.00	8.1	720	8	0.01	0.02	0.21	0.25	0.01	0.13
2DD-S16	93/12/1	3.0		8.0	730	4	0.01	0.02	0.31	0.34	0.01	0.11
2DD-S16	94/1/1	3.0	0.00	8.3	750	4	0.02	0.01	0.50	0.50	0.01	0.04
2DD-S16	94/2/1	2.0	0.00	8.4	740	8	0.01	0.02	0.02	0.25	0.01	0.04
2DD-S16	94/3/1	3.0	0.0	8.3	780	8	0.01	0.01	0.16	0.24	0.02	0.11
2DD-S16	94/4/24	3.0	0.0	8	780	8	0.01	0.01	0.25	0.27	0.02	0.10
2DD-S16	94/5/10											
2DD-S16	94/5/31	3.0	0.0	7.6	760	8		0.03	0.64	0.23	0.14	0.04
2DD-S16	94/6/28	5.0	0.0	7.8	780	8		0.02	0.19	0.16	0.05	0.02
2DD-S16	94/7/29	1.3	0.0	8.0	680	0		0.03	1.04	0.55	0.09	0.09
2DD-S16	94/10/31	1.3	0.0	7.5	800	0	0.00	0.02	0.59	0.43	0.12	0.00
2DD-S16	94/11/29	1.3	0.0	7.4	980	0	0.00	0.03	0.79	0.32	0.10	0.09
2DD-S16	95/1/5	3.0	0.0	8.6	1080	88	0.00	0.00	1.40	0.53	0.00	0.05
2DD-S16	95/2/6	1.5	0.0	7.9	1000	0	0.04	0.02	1.65	0.60	0.02	0.10
2DD-S16	95/3/29	2.0	0.0	7.2	1060	0	0.02	0.04	1.01	0.67	0.00	0.71
2DD-S16	95/4/27	1.5	0.0	7.9	1090	12	0.00	0.03	1.78	0.58	0.00	0.14
2DD-S16	95/5/3	3.0	0.0	7.8	940	16	0.03	0.03	1.33	0.36	0.00	0.31
2DD-S16	95/6/6	2.0	0.0	7.3	720	56	0.02	0.01	0.78	0.40	0.15	0.29
2DD-S16	95/8/11	2.0	0.0	7.7	460	0	0.05	0.02	0.68	0.25	0.03	0.14
2DD-S16	95/9/3			7.8	560	12	0.01	0.03	0.43	0.28	0.00	0.21

STATION: HUSKY SW (S17)

SAMPLED BY: UKHM

STATION	DATE	TEMP	FLOW L/s	pH	COND	NFR	CD_E mg/L	CU_E mg/L	FE_E mg/L	MN_E mg/L	PB_E mg/L	ZN_E mg/L
2DD-S17	91/6/1	4.0	3.00	6.6	700	8	0.04	0.01	43.81	56.01	0.04	0.67
2DD-S17	91/7/1	5.0	2.50	6.3	700	16	0.33	0.00	51.44	44.70	0.04	0.01
2DD-S17	91/8/1	3.0	2.50	6.5	700	12	0.00	0.01	53.13	10.30	0.00	0.09
2DD-S17	91/9/1	3.0	2.50	6.1	700	40	0.01	0.02	29.24	36.09	0.00	0.25
2DD-S17	91/10/1	1.0	2.00	6.9	660	32	0.01	0.02	24.76	13.72	0.03	1.67
2DD-S17	91/11/1	1.0	2.00	6.3	660	40	0.02	0.01	10.53	28.87	0.01	1.14
2DD-S17	91/12/1	0.0	2.00	6.3	880	24	0.01	0.01	14.03	31.11	0.01	1.49
2DD-S17	92/1/1	0.0	2.00	6.4	800	20	0.01	0.00	20.16	31.79	0.01	2.64
2DD-S17	92/2/1	1.0	2.00	6.4	710	40		0.01	29.60	23.66	0.04	1.68
2DD-S17	92/3/1	1.0	2.50	6.5	720	24		0.01	32.80	20.92	0.03	1.82
2DD-S17	92/4/1	1.0	2.80	6.4	880	24	0.01	0.02	38.39	21.82	0.02	0.23
2DD-S17	92/5/1	2.0	2.50	6.5	880	8	0.02	0.02	22.49	33.81	0.02	1.52
2DD-S17	92/6/1	2.0	2.50	6.7	920	8	0.02	0.02	27.57	19.18	0.02	0.14
2DD-S17	92/7/1	3.0	2.50	6.4	940	12	0.01	0.01	37.82	35.58	0.02	1.43
2DD-S17	92/8/1	2.0	2.50	6.1	900	24	0.01	0.01	41.21	23.95	0.01	1.31
2DD-S17	92/9/1	3.0	2.50	6.5	840	8	0.03	0.02	12.58	23.98	0.02	0.16
2DD-S17	92/10/1	0.5	6.00	6.9	1502	40	0.02	0.03	11.86	28.23	0.05	0.03
2DD-S17	92/11/1	0.5	6.00	6.4	840	12	0.02	0.01	18.36	16.53	0.05	0.12
2DD-S17	92/12/1	0.1	6.00	6.6	940	12		0.03	11.82	17.47	0.05	0.03
2DD-S17	93/1/1	0.1	6.00	6.3	820	16	0.01	0.01	10.99	14.33	0.02	0.22
2DD-S17	93/2/1	1.0	6.00	6.4	820	16	0.01	0.01	10.85	15.92	0.02	0.13
2DD-S17	93/3/1	1.5	6.00	6.6	840	16	0.01	0.02	37.01	25.34	0.02	0.32
2DD-S17	93/4/1	1.0	6.00	6.1	920	16	0.03	0.04	18.10	20.91	0.03	0.49
2DD-S17	93/5/1	1.0	6.00	6.5	960		0.02	0.02	33.16	29.24	0.18	1.90
2DD-S17	93/6/1	2.0	2.50	6.2	960		0.00	0.02	29.65	23.32	0.02	0.24
2DD-S17	93/7/1	3.6	3.50	7.0	1480	32		0.01	21.52	28.24	0.01	0.21
2DD-S17	93/8/1	3.1	3.50	6.9	1040	16	0.01		25.59	24.82	0.03	0.89
2DD-S17	93/9/1	1.6	3.50	7.0	820	12	0.01	0.01	19.87	15.60	0.03	0.82
2DD-S17	93/10/1	1.6	3.50	6.9	810	4	0.01		19.50	15.40	0.01	1.16
2DD-S17	93/11/1	1.5	3.50	7.2	800	8	0.01	0.01	18.89	14.97	0.01	0.99
2DD-S17	93/12/1	1.5	3.50	6.9	820	8	0.01	0.01	21.17	13.11	0.02	0.97
2DD-S17	94/1/1	2.0	3.00	6.9	740	24	0.02	0.02	26.41	16.26	0.03	0.56
2DD-S17	94/2/1	1.0	3.00	6.9	740	24	0.01	0.02	23.97	15.82	0.03	1.02

STATION: HUSKY SW (S17)

SAMPLED BY: UKHM

STATION	DATE	TEMP	FLOW L/s	pH	COND	NFR	CD_E mg/L	CU_E mg/L	FE_E mg/L	MN_E mg/L	PB_E mg/L	ZN_E mg/L
2DD-S17	94/3/1	2.0	3.00	7.0	920	20	0.01	0.01	24.06	15.19	0.03	0.79
2DD-S17	94/4/24	4.0	3.00	6.8	840	24	0.02	0.03	22.13	0.12	0.04	0.75
2DD-S17	94/5/10	2.7	2.00	7.2	980	36	0.01	0.02	?	13.55	0.00	0.91
2DD-S17	94/5/31	2.0	2.00	6.9	1150	12	0.00	0.01	40.10	18.46	0.19	0.52
2DD-S17	94/6/28	3.8	2.80	6.5	1020	12	0.01	0.02	32.90	22.27	0.04	0.68
2DD-S17	94/7/29	1.4	2.00	7.5	1279	12	0.00	0.01	42.60	43.00	0.10	1.11
2DD-S17	94/10/31	1.5	2.00	7.2	1100	44	0.00	0.00	31.60	22.60	0.29	1.06
2DD-S17	94/11/29	1.5	2.00	6.8	940	48	0.02	0.00	33.00	24.00	0.16	0.77
2DD-S17	95/1/5	2.0	2.00	5.3	1000	0	0.04	0.00	88.00	25.00	0.03	0.55
2DD-S17	95/2/6	0.5	2.00	7.0	1100	160	<0.001	0.00	46.00	>10.00	0.03	0.54
2DD-S17	95/3/29	1.0	2.00	7.1	990	48	0.00	0.04	90.00	23.00	0.07	0.85
2DD-S17	95/4/27	1.0	1.50	7.5	740	36	0.01	0.05	61.00	9.17	0.13	1.15
2DD-S17	95/5/3	2.0	1.30	6.9	950	80	0.04	0.07	62.00	24.00	0.06	1.44
2DD-S17	95/6/6	2.0	1.80	7.1	790	72	0.04	0.00	51.00	19.00	0.00	0.97
2DD-S17	95/8/11	1.0	2.50	6.88	540	64	0.01	0.03	33.00	22.00	0.05	0.72
2DD-S17	95/9/3	1.0	25.30	6.98	600	52	0.02	0.02	110.00	22.00	0.02	0.70

STATION NUMBER:		2DD-S18								
STATION DESCRIPTION:		Christal Creek at the Highway Crossing near Keno City								
	Sampled by:	EPS	EPS	EPS	EPS	EPS	DIAND	EPS	EPS	EPS
DATE		7/14/70	6/5/71	9/6/71	7/15/74	6/6/75	6/16/75	7/9/75	7/8/81	8/20/81
FLOW	(L/sec)								65.0	
TEMP	(oC)				17.0	7.0		11.5	10.1	
PH	insitu				7.7	8.8		7.9		
	lab						7.8	7.7		
COND (umhos/c)	insitu				242	97		420		
	lab						518			
DISSOLVED	OXYGEN				8.4	10.4		8.6		
COLOUR	(FTU)				20		7	17		
TURBIDITY	(FTU)				0.9		2.5	0.1		
T. Alkalinity	CaCO ₃						82	79.2		
T. Hardness	CaCO ₃				150		80	260		
Sulphate							199			
Cl										
PO ₄										
NO ₂										
NO ₃										
NH ₃										
NFR					6			11		
Ag	Ext					<0.01	<0.005	<0.03		
As	Ext						0.0054			
B	Ext									
Ba	Ext						0.3			
Be	Ext									
Ca	Ext				60.0			78.0		
Cd	Ext				<0.01	<0.01	0.0029	<0.01		
Co	Ext									
Cr	Ext									
Cu	Ext				<0.01	<0.01	<0.001	<0.01		
Fe	Ext						0.33	0.39		
Mg	Ext				3.20			16.00		
Mn	Ext				0.19		0.23			
Mo	Ext				<0.1	<0.3	<0.0005	<0.3		
Na	Ext									
Ni	Ext					<0.1	0.001	<0.1		
P	Ext									
Pb	Ext				<0.02	<0.02	0.012	<0.02		
Sb	Ext					<0.3		<0.3		
Se	Ext						0.0007			
Si	Ext									
Sn	Ext									
Sr	Ext									
Ti	Ext									
V	Ext									
Zn	Ext				0.17	0.28	0.31	0.22	0.93	0.83

STATION NUMBER: 2DD-S18

STATION DESCRIPTION: Christal Creek at the Highway Crossing near Keno City

Sampled by:		EPS	EPS	EPS	EPS	EPS	DIAND	EPS	EPS	EPS
DATE		7/14/70	6/5/71	9/6/71	7/15/74	6/6/75	6/16/75	7/9/75	7/8/81	8/20/81
Ag	Diss									
As	Diss									
B	Diss									
Ba	Diss									
Be	Diss									
Ca	Diss									
Cd	Diss									
Co	Diss									
Cr	Diss									
Cu	Diss									
Fe	Diss									
Mg	Diss									
Mn	Diss									
Mn	Diss									
Mo	Diss									
Na	Diss									
Ni	Diss									
P	Diss									
Pb	Diss									
Sb	Diss									
Se	Diss									
Si	Diss									
Sn	Diss									
Sr	Diss									
Ti	Diss									
V	Diss									
Zn	Diss									
Zn	Diss									

STATION NUMBER:		2DD-S18								
STATION DESCRIPTION:		Christal Creek at the Highway Crossing near Keno City								
	Sampled by:	EPS	EPS	EPS	EPS	EPS	DIAND	EPS	EPS	EPS
DATE		7/14/70	6/5/71	9/6/71	7/15/74	6/6/75	6/16/75	7/9/75	7/8/81	8/20/81
Ag	Total									
As	Total									
B	Total									
Ba	Total									
Be	Total									
Ca	Total									
Cd	Total									
Cd	Total									
Co	Total									
Cr	Total									
Cu	Total									
Cu	Total									
Fe	Total									
Fe	Total									
Mg	Total									
Mn	Total									
Mn	Total									
Mo	Total									
Na	Total									
Ni	Total									
P	Total									
Pb	Total									
Pb	Total									
Sb	Total									
Se	Total									
Si	Total									
Sn	Total									
Sr	Total									
Ti	Total									
V	Total									
Zn	Total	0.17	0.28	0.22						
Zn	Total									

STATION NUMBER:		2DD-S18									
STATION DESCRIPTION:		Christal Creek at the Highway Crossing near Keno City									
Sampled by:		DIAND	EPS	EPS	EPS	EPS	EPS	EPS	EPS	EPS	EPS
DATE		5/23/85	7/9/85	9/21/85	4/25/86	6/17/86	7/23/86	9/19/86	4/9/87	4/25/87	
FLOW	(L/sec)		65.0				53.5	89.6			
TEMP	(oC)		10.1	6.5			9.9	6.0			
PH	insitu		7.9	7.6							
	lab	7.2	7.9	7.3		7.5					
COND (umhos/cm)	insitu		457	500							
	lab	230	750	800		540					
DISSOLVED OXYGEN			9.7	10.4							
COLOUR	(FTU)	>100	10	5							
TURBIDITY	(FTU)	4.8	1.3	0.3							
T. Alkalinity	CaCO ₃	25	82.9	103.3							
T. Hardness	CaCO ₃	127	432	468			495	373			
Sulphate		71	270	293			351	287			
Cl			0.9	0.8							
PO ₄		0.018	0.016	0.004							
NO ₂		<0.005	0.005	<0.005							
NO ₃		0.018	0.036	0.076							
NH ₃		0.016	0.009	0.014							
NFR		7	8	<11							
Ag	Ext		<0.0005	<0.0005		<0.0005					
As	Ext	<0.05	<0.05	<0.05							
B	Ext	0.002	0.008	0.011							
Ba	Ext	0.04	0.046	0.057							
Be	Ext	<0.001	<0.001	<0.001							
Ca	Ext	36.4	138.0	151.3							
Cd	Ext	0.007	0.0032	0.0016		0.0017					
Co	Ext	<0.005	<0.005	<0.005							
Cr	Ext	<0.005	<0.005	<0.005							
Cu	Ext	<0.005	0.003	<0.001							
Fe	Ext	0.441	0.393	0.197		0.254					
Mg	Ext	6.10	19.70	20.50		11.30					
Mn	Ext	0.689	1.887	1.807		1.055					
Mo	Ext	<0.005	<0.005	<0.005							
Na	Ext	0.6	1.4	1.5							
Ni	Ext	<0.02	<0.02	<0.02							
P	Ext		0.08	<0.05							
Pb	Ext	<0.02	0.024	<0.001		0.003					
Sb	Ext	<0.05	<0.05	<0.05							
Se	Ext	<0.05	<0.05	<0.05							
Si	Ext	0.1	2.1	3.3							
Sn	Ext	<0.01	<0.01	<0.01		<0.01					
Sr	Ext	0.062	0.194	0.224							
Ti	Ext	0.006	<0.002	<0.002							
V	Ext	<0.005	<0.005	<0.005							
Zn	Ext	0.886	0.928	0.825		0.688					

STATION NUMBER:		2DD-S18								
STATION DESCRIPTION:		Christal Creek at the Highway Crossing near Keno City								
Sampled by:		DIAND	EPS	EPS	EPS	EPS	EPS	EPS	EPS	EPS
DATE		5/23/85	7/9/85	9/21/85	4/25/86	6/17/86	7/23/86	9/19/86	4/9/87	4/25/87
Ag	Diss									
As	Diss									
B	Diss									
Ba	Diss									
Be	Diss									
Ca	Diss									
Cd	Diss									
Co	Diss									
Cr	Diss									
Cu	Diss									
Fe	Diss									
Mg	Diss									
Mn	Diss						2.85	1.41		
Mn	Diss									
Mo	Diss									
Na	Diss									
Ni	Diss									
P	Diss									
Pb	Diss									
Sb	Diss									
Se	Diss									
Si	Diss									
Sn	Diss									
Sr	Diss									
Ti	Diss									
V	Diss									
Zn	Diss						1.10	0.92		
Zn	Diss									

STATION NUMBER:		2DD-S18								
STATION DESCRIPTION:		Christal Creek at the Highway Crossing near Keno City								
	Sampled by:	DIAND	EPS	EPS	EPS	EPS	EPS	EPS	EPS	EPS
DATE		5/23/85	7/9/85	9/21/85	4/25/86	6/17/86	7/23/86	9/19/86	4/9/87	4/25/87
Ag	Total									
As	Total									
B	Total									
Ba	Total									
Be	Total									
Ca	Total									
Cd	Total	0.006								
Cd	Total									
Co	Total									
Cr	Total									
Cu	Total	<0.005								
Cu	Total									
Fe	Total	0.803								
Fe	Total									
Mg	Total									
Mn	Total	0.703					2.94	1.53		
Mn	Total									
Mo	Total									
Na	Total									
Ni	Total									
P	Total									
Pb	Total	<0.02								
Pb	Total									
Sb	Total									
Se	Total									
Si	Total									
Sn	Total									
Sr	Total									
Ti	Total									
V	Total									
Zn	Total	0.898					1.53	1.14		
Zn	Total									

STATION NUMBER:		2DD-S18							
STATION DESCRIPTION:		Christal Creek at the Highway Crossing near Keno City							
	Sampled by:	EPS	EPS	EPS	EPS	EPS	EPS	EPS	EPS
DATE		6/17/87	8/9/87	10/29/87	12/10/87	4/12/88	5/19/88	5/21/88	5/24/88
FLOW	(L/sec)	76.0		57.1	88.7	52.0			
TEMP	(oC)	16.1		4.1		1.0	4.5	1.8	
PH	insitu								
	lab								
COND (umhos/c)	insitu								
	lab								
DISSOLVED OXYGEN									
COLOUR (FTU)									
TURBIDITY (FTU)									
T. Alkalinity	CaCO ₃								
T. Hardness	CaCO ₃	391		454	482	508	231	203	95
Sulphate				338	410	510			
Cl									
PO ₄									
NO ₂									
NO ₃									
NH ₃									
NFR									
Ag	Ext								
As	Ext								
B	Ext								
Ba	Ext								
Be	Ext								
Ca	Ext								
Cd	Ext								
Co	Ext								
Cr	Ext								
Cu	Ext								
Fe	Ext								
Mg	Ext								
Mn	Ext								
Mo	Ext								
Na	Ext								
Ni	Ext								
P	Ext								
Pb	Ext								
Sb	Ext								
Se	Ext								
Si	Ext								
Sn	Ext								
Sr	Ext								
Ti	Ext								
V	Ext								
Zn	Ext								

STATION NUMBER:		2DD-S18							
STATION DESCRIPTION:		Christal Creek at the Highway Crossing near Keno City							
	Sampled by:	EPS	EPS	EPS	EPS	EPS	EPS	EPS	EPS
DATE		6/17/87	8/9/87	10/29/87	12/10/87	4/12/88	5/19/88	5/21/88	5/24/88
Ag	Diss								
As	Diss								
B	Diss								
Ba	Diss								
Be	Diss								
Ca	Diss								
Cd	Diss								
Co	Diss								
Cr	Diss								
Cu	Diss								
Fe	Diss								
Mg	Diss								
Mn	Diss	1.77		0.79	5.94	9.89	2.24	3.17	
Mn	Diss								
Mo	Diss								
Na	Diss								
Ni	Diss								
P	Diss								
Pb	Diss								
Sb	Diss								
Se	Diss								
Si	Diss								
Sn	Diss								
Sr	Diss								
Ti	Diss								
V	Diss								
Zn	Diss	1.14	0.94	0.90	2.54	3.08	1.12	1.60	
Zn	Diss								

STATION NUMBER: 2DD-S18

STATION DESCRIPTION: Christal Creek at the Highway Crossing near Keno City

Sampled by:		EPS	EPS	EPS	EPS	EPS	EPS	EPS	EPS
DATE		6/17/87	8/9/87	10/29/87	12/10/87	4/12/88	5/19/88	5/21/88	5/24/88
Ag	Total								
As	Total								
B	Total								
Ba	Total								
Be	Total								
Ca	Total								
Cd	Total								
Cd	Total								
Co	Total								
Cr	Total								
Cu	Total								
Cu	Total								
Fe	Total								
Fe	Total								
Mg	Total								
Mn	Total	1.88		0.85	6.50	9.70	2.58	3.66	1.33
Mn	Total								
Mo	Total								
Na	Total								
Ni	Total								
P	Total								
Pb	Total								
Pb	Total								
Sb	Total								
Se	Total								
Si	Total								
Sn	Total								
Sr	Total								
Ti	Total								
V	Total								
Zn	Total	1.32		0.99	2.88	3.14	1.32	1.79	1.15
Zn	Total								

STATION NUMBER:		2DD-S18								
STATION DESCRIPTION:		Christal Creek at the Highway Crossing near Keno City								
	Sampled by:	EPS	EPS	EPS	DIAND	LES	LES	LES	EPS	LES
DATE		8/4/88	7/24/90	9/20/90	5/10/94	7/26/94	9/6/94	10/28/94	4/12/95	4/26/95
FLOW	(L/sec)	95.5				0.04893	0.05			
TEMP	(oC)	17.5	9.9	6.0	2.2	15.0	7.1	0.1		1.6
PH	insitu		7.72		7.1	7.95	7.95	7.45		7.66
	lab			8.0	7.5	8.0	7.9	7.9	7.4	7.1
COND (umhos/cm)	insitu		590	460	410	840	799	848		623
	lab		882	750	400	910			1150	
DISSOLVED OXYGEN			10.4	10.5		8.8	13.0	9.7		
COLOUR (FTU)			5	10		5				
TURBIDITY (FTU)			0.6	1.0	2.0	3				
T. Alkalinity	CaCO ₃		113	101	81	120	129	137	152	73
T. Hardness	CaCO ₃	357	486	394	157				687	
Sulphate		300	351.0	287.0	166	422			540.7	
Cl			1.0	1	<1	< 1.			<0.05	
PO ₄			0.005	0.006						
NO ₂			<0.002	<0.002	<2	< 1.			<0.005	
NO ₃			0.095	0.112	<0.2	< 0.5			0.253	
NH ₃			0.012	0.005	<0.05	< 0.05			0.206	
NFR			<10	<10	<5	13	<5	< 5.	<10	10
Ag	Ext		0.0003	0.0007	<0.001					
As	Ext		<0.05	<0.05	<0.02					
B	Ext		<0.01	<0.01						
Ba	Ext		0.059	0.049	0.0249					
Be	Ext		<0.001	<0.001	<0.0002					
Ca	Ext		153.0	123.0	50.3					
Cd	Ext		0.0047	0.0042	0.0046					
Co	Ext		<0.005	<0.005	0.002					
Cr	Ext		<0.005	<0.005	0.001					
Cu	Ext		<0.0005	0.0011	0.008					
Fe	Ext		0.206	0.283	0.246					
Mg	Ext		23.4	19.9	6.89					
Mn	Ext		2.780	1.520	1.15					
Mo	Ext		<0.01	<0.01	<0.005					
Na	Ext		1.5	1.3	0.67					
Ni	Ext		<0.02	<0.02	0.012					
P	Ext		<0.1	<0.1						
Pb	Ext		0.0026	0.0122	<0.01					
Sb	Ext		<0.05	<0.05	<0.02					
Se	Ext		<0.05	<0.05	0.02					
Si	Ext		3.37	3.42	1.69					
Sn	Ext		<0.05	<0.05	<0.01					
Sr	Ext		0.243	0.199	0.08					
Ti	Ext		<0.002	<0.002	0.002					
V	Ext		<0.01	<0.01	0.002					
Zn	Ext		1.180	1.010	0.748					

STATION NUMBER: 2DD-S18**STATION DESCRIPTION: Christal Creek at the Highway Crossing near Keno City**

Sampled by:		EPS	EPS	EPS	DIAND	LES	LES	LES	EPS	LES
DATE		8/4/88	7/24/90	9/20/90	5/10/94	7/26/94	9/6/94	10/28/94	4/12/95	4/26/95
Ag	Diss					0.0002	<0.001		<0.01	<0.001
As	Diss					<0.02	<0.02		<0.05	<0.02
B	Diss								<0.01	
Ba	Diss					0.0302	0.0371		0.055	0.0353
Be	Diss					<0.0002	<0.0002		<0.001	0.0002
Ca	Diss					164	164		221	108
Cd	Diss					<0.0005	<0.0005		0.0008	0.0189
Co	Diss					<0.001	<0.001		<0.005	0.002
Cr	Diss					<0.001	<0.001		0.01	<0.001
Cu	Diss					<0.002	0.003		0.0032	0.006
Fe	Diss					0.051	0.052		0.233	0.146
Mg	Diss					25.4	24.5		29.6	14.8
Mn	Diss	0.90								
Mn	Diss					0.885			5.64	2.31
Mo	Diss					<0.005	<0.005		<0.01	<0.005
Na	Diss					1.62	1.62		1.7	1.22
Ni	Diss					0.004	0.006		0.08	0.018
P	Diss					<0.06	<0.06		<0.1	<0.06
Pb	Diss					0.006	<0.01		<0.05	<0.01
Sb	Diss					<0.02	<0.02		<0.05	<0.02
Se	Diss					<0.001	<0.02		<0.05	<0.02
Si	Diss					2.35	3.1		4.57	3.01
Sn	Diss					<0.01	<0.01		<0.05	<0.01
Sr	Diss					0.25	0.23		0.32	0.17
Ti	Diss					<0.001	<0.001		<0.002	<0.01
V	Diss					0.005	<0.002		<0.01	0.005
Zn	Diss	0.44							1.27	
Zn	Diss					0.422	0.361		1.27	1.89

STATION NUMBER:		2DD-S18								
STATION DESCRIPTION:		Christal Creek at the Highway Crossing near Keno City								
Sampled by:		EPS	EPS	EPS	DIAND	LES	LES	LES	EPS	LES
DATE		8/4/88	7/24/90	9/20/90	5/10/94	7/26/94	9/6/94	10/28/94	4/12/95	4/26/95
Ag	Total					0.0002	<0.001	< 0.001		< 0.001
As	Total					< 0.02	<0.02	< 0.02		< 0.02
B	Total									
Ba	Total					0.0319	0.038	0.0536		0.0378
Be	Total					< 0.0002	<0.0002	0.0003		< 0.0002
Ca	Total					183	168	173		113
Cd	Total		0.0025	0.0046	0.0047				0.001	
Cd	Total					0.0021	<0.0005	0.0014		0.0195
Co	Total					< 0.001	<0.001	< 0.001		0.002
Cr	Total					< 0.001	<0.001	< 0.001		< 0.001
Cu	Total		0.0008	0.0015	0.01				0.0023	
Cu	Total					< 0.002	<0.002	0.006		0.016
Fe	Total		0.222	0.303	0.347				0.607	
Fe	Total					0.44	0.222	0.223		0.849
Mg	Total					25.4	24.6	26.3		14.9
Mn	Total	1.27	0.222	1.530	1.29				6.13	
Mn	Total					0.951		0.625		2.34
Mo	Total					< 0.005	<0.005	< 0.005		< 0.005
Na	Total					1.61	1.63	1.86		1.24
Ni	Total					0.007	0.007	0.008		0.018
P	Total					< 0.06	<0.06	< 0.06		0.06
Pb	Total		<0.05	0.0130	<0.01				<0.06	
Pb	Total					0.006	<0.01	< 0.01		0.03
Sb	Total					< 0.02	<0.02	< 0.02		< 0.02
Se	Total					< 0.001	<0.02	< 0.02		< 0.02
Si	Total					2.45	3.16	3.87		3.17
Sn	Total					< 0.01	<0.01	< 0.01		< 0.01
Sr	Total					0.26	0.22	0.24		0.17
Ti	Total					0.003	<0.001	0.002		< 0.01
V	Total					0.006	<0.002	0.007		0.006
Zn	Total	0.52	1.530	1.140	0.819				1.42	
Zn	Total					0.476	0.395	0.561		1.98

STATION NUMBER:		2DD-S18		
STATION DESCRIPTION:		Christal Creek at the Hig		
	Sampled by:	LES	LES	LES
DATE		4/26/95	7/11/95	9/5/95
FLOW	(L/sec)		0.0368	0.0836
TEMP	(°C)	1.6	20.1	3.7
PH	insitu	7.66	7.75	6.92
	lab	7.2	8.0	7.7
COND (umhos/cm)	insitu	623	970	800
	lab			830
DISSOLVED OXYGEN			8.0	
COLOUR	(FTU)			
TURBIDITY	(FTU)			
T. Alkalinity	CaCO ₃	71	108	98
T. Hardness	CaCO ₃			
Sulphate			530	400.0
Cl				
PO ₄				
NO ₂				
NO ₃				
NH ₃				
NFR		12	< 5.	< 5.
Ag	Ext			
As	Ext			
B	Ext			
Ba	Ext			
Be	Ext			
Ca	Ext			
Cd	Ext			
Co	Ext			
Cr	Ext			
Cu	Ext			
Fe	Ext			
Mg	Ext			
Mn	Ext			
Mo	Ext			
Na	Ext			
Ni	Ext			
P	Ext			
Pb	Ext			
Sb	Ext			
Se	Ext			
Si	Ext			
Sn	Ext			
Sr	Ext			
Ti	Ext			
V	Ext			
Zn	Ext			

STATION NUMBER:		2DD-S18		
STATION DESCRIPTION:		Christal Creek at the Hig		
Sampled by:		LES	LES	LES
DATE		4/26/95	7/11/95	9/5/95
Ag	Diss	< 0.001	< 0.001	< 0.001
As	Diss	< 0.02	< 0.02	< 0.02
B	Diss			
Ba	Diss	0.0356	0.0302	0.0374
Be	Diss	< 0.0002	0.0002	< 0.0002
Ca	Diss	110	194	157
Cd	Diss	0.0191	0.0005	0.0007
Co	Diss	< 0.002	< 0.001	< 0.001
Cr	Diss	< 0.001	< 0.001	< 0.001
Cu	Diss	0.009	0.015	< 0.002
Fe	Diss	0.15	0.017	0.031
Mg	Diss	15.1	26	25.6
Mn	Diss			
Mn	Diss	2.34	0.509	0.356
Mo	Diss	< 0.005	< 0.005	< 0.005
Na	Diss	1.24	1.74	1.9
Ni	Diss	0.019	0.003	0.003
P	Diss	< 0.06	< 0.06	0.31
Pb	Diss	< 0.01	< 0.01	< 0.005
Sb	Diss	< 0.02	< 0.02	< 0.02
Se	Diss	< 0.02	< 0.02	< 0.02
Si	Diss	3.02	2.92	3.63
Sn	Diss	< 0.01	< 0.01	< 0.005
Sr	Diss	0.18	0.26	0.234
Ti	Diss	< 0.01	0.002	< 0.001
V	Diss	0.006	< 0.002	0.005
Zn	Diss			
Zn	Diss	1.9	0.223	0.259

STATION NUMBER:		2DD-S18		
STATION DESCRIPTION:		Christal Creek at the Hig		
Sampled by:		LES	LES	LES
DATE		4/26/95	7/11/95	9/5/95
Ag	Total	< 0.001	< 0.001	
As	Total	< 0.02	< 0.02	
B	Total			
Ba	Total	0.0376	0.0328	
Be	Total	< 0.0002	0.0002	
Ca	Total	113	208	
Cd	Total			
Cd	Total	0.0192	0.0015	
Co	Total	< 0.001	< 0.001	
Cr	Total	< 0.001	< 0.001	
Cu	Total			
Cu	Total	0.013	0.017	
Fe	Total			
Fe	Total	0.802	0.428	
Mg	Total	15	27.5	
Mn	Total			
Mn	Total	2.34	0.57	
Mo	Total	< 0.005	< 0.005	
Na	Total	1.3	1.67	
Ni	Total	0.019	0.004	
P	Total	< 0.06	< 0.06	
Pb	Total			
Pb	Total	0.03	< 0.01	
Sb	Total	< 0.02	< 0.02	
Se	Total	< 0.02	< 0.02	
Si	Total	3.1	3.12	
Sn	Total	< 0.01	< 0.01	
Sr	Total	0.17	0.27	
Ti	Total	< 0.01	0.002	
V	Total	0.006	0.002	
Zn	Total			
Zn	Total	1.96	0.281	

STATION: 2DD-S18 Christal Creek at the Highway Crossing near Keno City														
SAMPLED BY: UKHM														
SAMPLER	DATE	FLOW	TEMP	NOTES	pH	COND (umhos/cm)		NFR	Cd	Cu	Fe	Mn	Pb	Zn
		(L/sec)	(oC)		lab	insitu	lab			Ext	Ext	Ext	Ext	Ext
UKHM	90/2/8		10.0		7.94		165	24	0.010	0.010	0.020	0.020	0.11	0.000
UKHM	90/4/7		14.0		7.82		220	12	0.020	0.010	0.070	0.050	0.06	0.010
UKHM	93/3/22		0.1		7.30		640	0	0.020	0.020	0.020	0.180	0.03	0.510
UKHM	93/4/24		1.0		6.89		580	12	0.030	0.030	0.460	0.110	0.02	0.700
UKHM	93/5/26		4.0		7.14		420	0	0.010	0.010	1.520	1.220	0.17	1.130
UKHM	93/6/28		12.0		7.70		680	0	0.010	0.030	1.100	1.070	0.01	0.120
UKHM	93/7/21		11.6		7.90		680	8	-0.010	0.010	0.090	1.570	0.01	0.100
UKHM	93/8/25		7.1		7.40		620	8	0.010	-0.010	0.010	0.150	-0.01	0.340
UKHM	93/9/29		2.6		8.40		620	8	0.010	0.010	0.180	1.680	0.01	0.390
UKHM	93/10/26		2.4		8.00		620	4	0.010	-0.010	0.090	0.230	0.01	1.960
UKHM	93/11/25		0.1		7.60		650	8	0.010	0.010	0.110	1.110	-0.01	0.980
UKHM	93/12/16		1.0		7.80		670	8	0.020	0.010	0.180	1.840	-0.01	0.980
UKHM	94/1/27		1.2		7.40		540	4	0.010	-0.010	0.050	2.660	0.02	0.830
UKHM	94/2/24		1.0		7.50		780	8	0.010	0.010	0.050	6.370	0.02	2.110
UKHM	94/3/28		2.0		8.30		760	8	0.020	0.010	0.080	6.420	0.02	2.670
UKHM	94/4/23		5.0		7.60		210	4	0.010	-0.010	0.020	0.040	0.01	0.170
UKHM	94/5/10		2.7	Simultaneous	7.60		340	4	0.010	0.010	0.190	1.180	0.02	0.020
				with Water Resources										
UKHM	94/10/31	20	0.3		7.40		620	0	0.001	<0.002	0.600	0.670	0.01	0.680
UKHM	94/11/29	22	0.3		7.00		700	0	0.001	<0.002	0.400	1.120	0.02	0.920
UKHM	95/1/5		0.5		7.94		810	0	0.007	0.002	0.800	1.330	0.01	0.870
UKHM	95/2/6		0.5		7.00		960	0	0.010	0.020	0.770	6.090	0.00	1.350
UKHM	95/3/29		0.5		4.00		1900	0	<0.001	0.002	0.200	1.230	<0.005	0.115
UKHM	95/4/27		1.0		7.21		520	12	0.017	0.002	0.800	1.910	0.04	1.750
UKHM	95/5/3		3.5		8.40		275	16	0.003	0.002	0.600	0.740	0.01	0.610
UKHM	95/6/6		8.0		7.10		660	20	0.002	0.002	1.200	0.580	0.01	0.560
UKHM	95/8/11		14.0		7.74		460	16	0.001	0.002	0.400	0.420	0.01	0.250
UKHM	95/9/3		9.0		7.84		400	0	0.002	<0.002	0.200	0.340	<0.005	0.270

STATION NUMBER::		2DD-S19								
STATION DESCRIPTION:		Christal Creek at the Hanson Road Crossing								
		EPS	EPS	EPS	EPS	EPS	EPS	DIAND	EPS	EPS
DATE		70/7/14	71/6/5	71/9/6	74/7/15	75/6/6	75/7/9	75/7/16	81/7/8	81/8/20
FLOW	(m ³ s)									
TEMP	(oC)				10.5	6.0	11.3			
pH	insitu				7.4	8.5	8.1			
	lab						8.1	8.1		
COND	insitu				210	135	284			
(umhos/cm)	lab							399		
DISSOLVED	OXYGEN				10.4	11.8	8.2			
COLOUR	(FTU)				10		12	7		
TURBIDITY	(FTU)				0.4		0.1	3.6		
T. Alkalinity	CaCO ₃						10.4	107		
T. Hardness	CaCO ₃				190		210	232		
Sulphate								117		
Cl										
PO ₄										
NO ₂										
NO ₃										
NH ₃										
NFR					<5		5	24		
Ag	Ext						<0.03	<0.005		
As	Ext							0.0023		
B	Ext									
Ba	Ext							0.25		
Be	Ext									
Ca	Ext				54.0		62.0			
Cd	Ext				<0.01		<0.01	0.0014		
Co	Ext									
Cr	Ext									
Cu	Ext				<0.01		<0.01	0.001		
Fe	Ext						0.13	0.07		
Mg	Ext				13.16		15.00			
Mn	Ext				0.04			0.12		
Mo	Ext				<0.1		<0.3	0.0006		
Na	Ext									
Ni	Ext						<0.1	<0.001		
P	Ext									
Pb	Ext				<0.02		<0.02	0.009		
Sb	Ext						<0.3			
Se	Ext							0.0011		
Si	Ext									
Sn	Ext									
Sr	Ext									
Ti	Ext									
V	Ext									
Zn	Ext						0.16	0.17		

STATION NUMBER::		2DD-S19								
STATION DESCRIPTION:		Christal Creek at the Hanson Road Crossing								
		EPS	EPS	EPS	EPS	EPS	EPS	DIAND	EPS	EPS
DATE		70/7/14	71/6/5	71/9/6	74/7/15	75/6/6	75/7/9	75/7/16	81/7/8	81/8/20
Ag	Diss									
As	Diss									
B	Diss									
Ba	Diss									
Be	Diss									
Ca	Diss									
Cd	Diss									
Co	Diss									
Cr	Diss									
Cu	Diss									
Fe	Diss									
Mg	Diss									
Mn	Diss									
Mn	Diss									
Mo	Diss									
Na	Diss									
Ni	Diss									
P	Diss									
Pb	Diss									
Sb	Diss									
Se	Diss									
Si	Diss									
Sn	Diss									
Sr	Diss									
Ti	Diss									
V	Diss									
Zn	Diss									
Zn	Diss									

STATION NUMBER::		2DD-S19								
STATION DESCRIPTION:		Christal Creek at the Hanson Road Crossing								
		EPS	EPS	EPS	EPS	EPS	EPS	DIAND	EPS	EPS
DATE		70/7/14	71/6/5	71/9/6	74/7/15	75/6/6	75/7/9	75/7/16	81/7/8	81/8/20
Ag	Total									
As	Total									
B	Total									
Ba	Total									
Be	Total									
Ca	Total									
Cd	Total									
Cd	Total									
Co	Total									
Cr	Total									
Cu	Total									
Cu	Total									
Fe	Total									
Fe	Total									
Mg	Total									
Mn	Total									
Mn	Total									
Mo	Total									
Na	Total									
Ni	Total									
P	Total									
Pb	Total									
Pb	Total									
Sb	Total									
Se	Total									
Si	Total									
Sn	Total									
Sr	Total									
Ti	Total									
V	Total									
Zn	Total	0.120		0.160						
Zn	Total									

STATION NUMBER::		2DD-S19									
STATION DESCRIPTION:		Christal Creek at the Hanson Road Crossing									
		EPS	EPS	EPS	EPS	EPS	EPS	EPS	EPS	EPS	EPS
DATE		86/4/25	86/7/23	86/9/19	87/4/9	87/4/25	87/6/17	87/8/9	87/10/29	87/12/10	
FLOW	(m ³ /s)		79.6L/s	239.8L/s					91.3L/s		
TEMP	(oC)	1.9	11.0	2.2	1.3		9.2		3.5		
pH	insitu										
	lab										
COND	insitu										
	(umhos/cm)										
DISSOLVED	OXYGEN										
COLOUR	(FTU)										
TURBIDITY	(FTU)										
T. Alkalinity	CaCO ₃										
T. Hardness	CaCO ₃	274	354	273	444		229		340		
Sulphate		141	240	159	305				182		
Cl											
PO ₄											
NO ₂											
NO ₃											
NH ₃											
NFR											
Ag	Ext										
As	Ext										
B	Ext										
Ba	Ext										
Be	Ext										
Ca	Ext										
Cd	Ext										
Co	Ext										
Cr	Ext										
Cu	Ext										
Fe	Ext										
Mg	Ext										
Mn	Ext										
Mo	Ext										
Na	Ext										
Ni	Ext										
P	Ext										
Pb	Ext										
Sb	Ext										
Se	Ext										
Si	Ext										
Sn	Ext										
Sr	Ext										
Ti	Ext										
V	Ext										
Zn	Ext										

STATION NUMBER::		2DD-S19								
STATION DESCRIPTION:		Christal Creek at the Hanson Road Crossing								
		EPS	EPS	EPS	EPS	EPS	EPS	EPS	EPS	EPS
DATE		86/4/25	86/7/23	86/9/19	87/4/9	87/4/25	87/6/17	87/8/9	87/10/29	87/12/10
Ag	Diss									
As	Diss									
B	Diss									
Ba	Diss									
Be	Diss									
Ca	Diss									
Cd	Diss									
Co	Diss									
Cr	Diss									
Cu	Diss									
Fe	Diss									
Mg	Diss									
Mn	Diss	2.090	0.362	0.330	2.070		0.110		0.143	
Mn	Diss									
Mo	Diss									
Na	Diss									
Ni	Diss									
P	Diss									
Pb	Diss									
Sb	Diss									
Se	Diss									
Si	Diss									
Sn	Diss									
Sr	Diss									
Ti	Diss									
V	Diss									
Zn	Diss	1.170	0.266	0.445	1.420	1.170	0.226	0.353	0.420	
Zn	Diss									

STATION NUMBER::		2DD-S19									
STATION DESCRIPTION:		Christal Creek at the Hanson Road Crossing									
DATE		EPS	EPS	EPS	EPS	EPS	EPS	EPS	EPS	EPS	EPS
		86/4/25	86/7/23	86/9/19	87/4/9	87/4/25	87/6/17	87/8/9	87/10/29	87/12/10	
Ag	Total										
As	Total										
B	Total										
Ba	Total										
Be	Total										
Ca	Total										
Cd	Total										
Cd	Total										
Co	Total										
Cr	Total										
Cu	Total										
Cu	Total										
Fe	Total										
Fe	Total										
Mg	Total										
Mn	Total	2.560	0.375	0.356	2.190		0.129		0.125		
Mn	Total										
Mo	Total										
Na	Total										
Ni	Total										
P	Total										
Pb	Total										
Pb	Total										
Sb	Total										
Se	Total										
Si	Total										
Sn	Total										
Sr	Total										
Ti	Total										
V	Total										
Zn	Total	1.360	0.366	0.549	1.470	1.000	0.286	0.450	0.492		
Zn	Total										

STATION NUMBER::		2DD-S19								
STATION DESCRIPTION:		Christal Creek at the Hanson Road Crossing								
		EPS	EPS	EPS	EPS	EPS	DIAND	LES	LES	LES
DATE		88/4/13	88/5/19	88/5/21	88/5/24	88/8/4	94/5/10	94/7/26	94/9/7	94/10/27
FLOW	(m ³ /s)	111.1L/s	167.6L/s			308.3L/s		0.10448	0.1163	
TEMP	(°C)	0.0	1.5			13.4	2.5	8.1	1.4	0.2
pH	insitu						7.3	8.29	8.09	8.09
	lab						7.6	8.1	8.0	8.0
COND	insitu						252	554	559	638
(umhos/cm)	lab						245	590		
DISSOLVED	OXYGEN							11.3	14.9	10.5
COLOUR	(FTU)							< 5.		
TURBIDITY	(FTU)							< 1.		
T. Alkalinity	CaCO ₃							135	145	143
T. Hardness	CaCO ₃	441	177			281	92.9			
Sulphate		310				122	68.9	197		
Cl								< 2.		
PO ₄								< 2.		
NO ₂								< 1.		
NO ₃								0.05		
NH ₃										
NFR							6	< 5.	< 5	< 5.
Ag	Ext						<0.001			
As	Ext						<0.02			
B	Ext									
Ba	Ext									
Be	Ext									
Ca	Ext									
Cd	Ext						0.0031			
Co	Ext									
Cr	Ext									
Cu	Ext						0.006			
Fe	Ext						0.166			
Mg	Ext									
Mn	Ext									
Mo	Ext									
Na	Ext									
Ni	Ext									
P	Ext									
Pb	Ext						<0.01			
Sb	Ext									
Se	Ext									
Si	Ext									
Sn	Ext									
Sr	Ext									
Ti	Ext									
V	Ext									
Zn	Ext						0.393			

STATION NUMBER::		2DD-S19								
STATION DESCRIPTION:		Christal Creek at the Hanson Road Crossing								
		EPS	EPS	EPS	EPS	EPS	DIAND	LES	LES	LES
DATE		88/4/13	88/5/19	88/5/21	88/5/24	88/8/4	94/5/10	94/7/26	94/9/7	94/10/27
Ag	Diss							0.0002	<0.001	
As	Diss							< 0.02	<0.02	
B	Diss									
Ba	Diss							0.0434	0.0378	
Be	Diss							< 0.0002	<0.0002	
Ca	Diss							104	103	
Cd	Diss							< 0.0005	<0.0005	
Co	Diss							< 0.001	<0.001	
Cr	Diss							< 0.001	<0.001	
Cu	Diss							< 0.002	<0.002	
Fe	Diss							0.026	0.038	
Mg	Diss							19.4	19.4	
Mn	Diss	3.250	0.535			0.207				
Mn	Diss							0.069		
Mo	Diss							< 0.005	<0.005	
Na	Diss							1.47	1.48	
Ni	Diss							< 0.001	0.001	
P	Diss							< 0.06	<0.06	
Pb	Diss							0.006	<0.01	
Sb	Diss							< 0.02	<0.02	
Se	Diss							< 0.001	<0.02	
Si	Diss							2.93	2.85	
Sn	Diss							< 0.01	<0.01	
Sr	Diss							0.21	0.19	
Ti	Diss							< 0.001	<0.001	
V	Diss							0.004	<0.002	
Zn	Diss	1.390	0.402			0.283				
Zn	Diss							0.156	0.182	

STATION NUMBER::		2DD-S19								
STATION DESCRIPTION:		Christal Creek at the Hanson Road Crossing								
		EPS	EPS	EPS	EPS	EPS	DIAND	LES	LES	LES
DATE		88/4/13	88/5/19	88/5/21	88/5/24	88/8/4	94/5/10	94/7/26	94/9/7	94/10/27
Ag	Total							0.0002	<0.001	< 0.001
As	Total							< 0.02	<0.02	< 0.02
B	Total									
Ba	Total							0.0437	0.0389	0.0459
Be	Total							< 0.0002	<0.0002	0.0003
Ca	Total							108	104	112
Cd	Total									
Cd	Total							< 0.0005	0.0006	0.001
Co	Total							< 0.001	<0.001	< 0.001
Cr	Total							< 0.001	<0.001	< 0.001
Cu	Total									
Cu	Total							< 0.002	<0.002	0.006
Fe	Total									
Fe	Total							0.073	0.11	0.075
Mg	Total							20	19.5	21.8
Mn	Total	3.300	0.698			0.229				
Mn	Total							0.071		0.072
Mo	Total							< 0.005	<0.005	< 0.005
Na	Total							1.43	2.16	1.68
Ni	Total							0.002	0.002	0.003
P	Total							< 0.06	<0.06	< 0.06
Pb	Total									
Pb	Total							0.006	<0.01	< 0.01
Sb	Total							< 0.02	<0.02	< 0.02
Se	Total							< 0.001	<0.02	< 0.02
Si	Total							2.88	2.95	3.45
Sn	Total							< 0.01	<0.01	< 0.01
Sr	Total							0.22	0.19	0.21
Ti	Total							0.002	<0.001	0.002
V	Total							0.006	<0.002	0.006
Zn	Total	1.430	0.477			0.334	0.507			
Zn	Total							0.153	0.196	0.294

STATION NUMBER::		2DD-S19			
STATION DESCRIPTION:		Christal Creek at the Hanson Road			
		EPS	LES	LES	LES
DATE		95/4/12	95/4/26	95/7/11	95/9/5
FLOW	(m ³ s)			0.0908	0.2362
TEMP	(°C)			8.5	5.4
pH	insitu			8.05	7.68
	lab	7.9	7.6	8.1	7.9
COND	insitu			669	544
(umhos/cm)	lab	885			560
DISSOLVED	OXYGEN			9.5	
COLOUR	(FTU)				
TURBIDITY	(FTU)				
T. Alkalinity	CaCO ₃	162	57	137	127
T. Hardness	CaCO ₃	502			
Sulphate		333		292	216.0
Cl		3.64			
PO ₄					
NO ₂		<0.005			
NO ₃		0.168			
NH ₃		0.019			
NFR		<10	53	< 5.	< 5.
Ag	Ext				
As	Ext				
B	Ext				
Ba	Ext				
Be	Ext				
Ca	Ext				
Cd	Ext				
Co	Ext				
Cr	Ext				
Cu	Ext				
Fe	Ext				
Mg	Ext				
Mn	Ext				
Mo	Ext				
Na	Ext				
Ni	Ext				
P	Ext				
Pb	Ext				
Sb	Ext				
Se	Ext				
Si	Ext				
Sn	Ext				
Sr	Ext				
Ti	Ext				
V	Ext				
Zn	Ext				

STATION NUMBER::	2DD-S19
STATION DESCRIPTION:	Christal Creek at the Hanson Road

		EPS	LES	LES	LES
DATE		95/4/12	95/4/26	95/7/1	95/9/5
Ag	Diss	<0.01	< 0.001	< 0.001	< 0.001
As	Diss	<0.05	< 0.02	< 0.02	< 0.02
B	Diss	<0.01			
Ba	Diss	0.065	0.0256	0.0427	0.0407
Be	Diss	<0.001	< 0.0002	< 0.0002	< 0.0002
Ca	Diss	155	48.4	111	99.5
Cd	Diss	0.0015	0.0031	< 0.0005	0.0012
Co	Diss	<0.005	< 0.001	< 0.001	< 0.001
Cr	Diss	0.005	< 0.001	< 0.001	< 0.001
Cu	Diss	0.0023	0.009	0.015	0.002
Fe	Diss	0.01	0.057	0.019	0.028
Mg	Diss	27.2	8.62	21.1	20.3
Mn	Diss				
Mn	Diss	0.505	0.428	0.034	0.0786
Mo	Diss	<0.01	< 0.005	< 0.005	< 0.005
Na	Diss	1.4	0.82	1.7	1.63
Ni	Diss	<0.02	0.005	< 0.001	< 0.002
P	Diss	<0.1	< 0.06	< 0.06	0.27
Pb	Diss	<0.05	< 0.01	< 0.01	< 0.005
Sb	Diss	<0.05	< 0.02	< 0.02	< 0.02
Se	Diss	<0.05	< 0.02	< 0.02	< 0.02
Si	Diss	4.14	2.13	3.24	3.33
Sn	Diss	<0.05	< 0.01	< 0.01	< 0.005
Sr	Diss	0.287	0.09	0.21	0.186
Ti	Diss	<0.002	< 0.01	0.002	< 0.001
V	Diss	<0.01	0.003	0.002	0.002
Zn	Diss	0.343			
Zn	Diss	0.343	0.284	0.15	0.244

STATION NUMBER::		2DD-S19			
STATION DESCRIPTION:		Christal Creek at the Hanson Road			
		EPS	LES	LES	LES
DATE		95/4/12	95/4/26	95/7/11	95/9/5
Ag	Total		< 0.001	< 0.001	
As	Total		< 0.02	< 0.02	
B	Total				
Ba	Total		0.0393	0.0449	
Be	Total		< 0.0002	< 0.0002	
Ca	Total		49.1	125	
Cd	Total	0.0013			
Cd	Total		0.0035	< 0.0005	
Co	Total		< 0.001	< 0.001	
Cr	Total		< 0.001	< 0.001	
Cu	Total	0.0019			
Cu	Total		0.016	0.016	
Fe	Total	0.019			
Fe	Total		0.932	0.069	
Mg	Total		8.74	22.1	
Mn	Total	0.524			
Mn	Total		0.92	0.035	
Mo	Total		< 0.005	< 0.005	
Na	Total		0.86	1.72	
Ni	Total		0.008	< 0.001	
P	Total		< 0.06	< 0.06	
Pb	Total	<0.06			
Pb	Total		0.05	< 0.01	
Sb	Total		< 0.02	< 0.02	
Se	Total		< 0.02	< 0.02	
Si	Total		2.49	3.43	
Sn	Total		< 0.01	< 0.01	
Sr	Total		0.1	0.22	
Ti	Total		< 0.01	0.002	
V	Total		0.005	< 0.002	
Zn	Total	0.359			
Zn	Total		0.426	0.157	

STATION NUMBER: 2DD-S19														
STATION DESCRIPTION: Christal Creek at the Hanson Road Crossing														
SAMPLER	DATE	FLOW	TEMP	NOTES	pH	COND	(umhos/cm)	NFR	Cd	Cu	Fe	Mn	Pb	Zn
		(m ³ /s)	(°C)		lab	insitu	lab		Ext	Ext	Ext	Ext	Ext	Ext
UKHM	900208		10.0		7.52		160	16	0.000	0.000	0.040	0.040	0.00	0.000
UKHM	900407		5.0		7.23		150	8	0.000	0.000	0.040	0.220	0.00	0.000
UKHM	930322		0.1		7.82		600	0	0.020	0.030	0.010	0.020	0.01	0.090
UKHM	930424		1.0		8.24		310	12	0.020	0.030	0.210	0.020	0.01	0.370
UKHM	930526		5.0		7.69		200	0	-0.010	0.010	0.090	0.040	0.15	0.340
UKHM	930628		13.0		7.78		450	0	0.010	0.020	0.070	0.100	0.01	0.060
UKHM	930721		9.2		8.40		450	4	-0.010	0.010	0.070	0.220	-0.01	0.040
UKHM	930825		6.7		7.54		480	4	0.010	0.010	0.010	0.030	-0.01	0.150
UKHM	930929		1.8		8.10		460	12	0.010	0.010	0.120	0.360	-0.01	0.180
UKHM	931125		0.1		7.70		480	4	0.010	0.010	0.080	0.250	-0.01	0.440
UKHM	931216		0.1		8.20		410	4	0.020	0.010	0.010	0.070	-0.01	0.370
UKHM	940127		0.1		7.90		420	4	0.010	-0.010	0.060	0.380	-0.01	0.270
UKHM	940224		1.0		7.90		470	8	0.010	-0.010	0.090	0.080	-0.01	0.250
UKHM	940328		2.0		7.90		620	4	0.010	0.010	0.060	0.950	0.01	0.780
UKHM	940423		4.0		7.70		270	4	0.010	0.010	0.190	0.750	0.02	0.410
UKHM	940510		2.4	Simultaneous	7.40		180	8	0.010	0.010	0.090	0.200	0.01	0.460
				with Water Resources										
UKHM	941031		0.5		7.40		410	0	0.001	<0.002	0.400	0.220	0.005	0.430
UKHM	941129		0.5		7.42		560	0	0.001	<0.002	<0.200	0.190	0.01	0.380
UKHM	950105		0.5		8.00		670	0	<0.001	<0.002	0.200	0.280	0.005	0.670
UKHM	950206		0.5		7.70		800	0	0.002	0.002	0.400	0.210	0.02	0.530
UKHM	950329		1.0	overflow	7.20		1300	0	0.002	0.002	<0.200	0.540	0.005	0.560
UKHM	950427		2.0	overflow	7.54		310	12	0.002	0.002	0.400	0.530	0.02	0.360
UKHM	950503		1.5	overflow	8.19		190	16	0.001	0.002	0.200	0.240	0.01	0.230
UKHM	950606		8.0		7.40		390	12	0.001	<0.002	0.400	0.125	0.02	0.290
UKHM	950811		8.0		7.73		400	12	0.001	<0.002	<0.200	0.056	0.01	0.200
UKHM	950903		3.0		7.83		340	0	0.001	<0.002	0.200	0.072	0.005	0.240

STATION NUMBER:		LES 1				
STATION DESCRIPTION:		South McQuesten River upstream of Christal Creek				
Sampled by:		LES	LES	LES	LES	LES
Date		94-7-26	94-9-7	94-10-27	95-7-10	95-9-6
Flow	L/s	2984.7	1585.7		3402.9	4316.4
Water	Temp oC	18.2	9.0	0.2	18.0	7.6
Dissolved	oxygen mg/L	8.5	13.7	11.0	8.4	
	Lab Reference	23877-001	24234-1	4618-001	6584-001	6960-001
Hydroxide	CaCO ₃			< 5.	< 1.	< 5.
Carbonate	CaCO ₃			< 5.	< 1.	< 5.
Bicarb.	CaCO ₃			111	78	82
Total Alk.	CaCO ₃	88	93	111	78	82
Colour	TCU	5				
Conduct.	uS/cm					
	In-situ	246	262	184	295	243
	lab	260				250
pH	In-situ	8.43	8.25	7.92	8.80	7.46
pH	lab	8.1	8.0	8.0	8.1	7.9
TURBIDITY	(FTU)	< 1.				
NFR		< 5.	< 5	< 5.	< 5.	< 5.
TDS		179	210	222	185	200.00
Chloride	Cl	< 1.				
Fluoride	F	< 1.				
Nitrate	NO ₃ -N	< 0.5				
Nitrite	NO ₂ -N	< 1.				
Sulfate	SO ₄	45.5			53.6	50.0
Ammonia	NH ₃ -N	0.06				
Total CN		-				

STATION NUMBER:			LES 1				
STATION DESCRIPTION:			South McQuesten River upstream of Christal Creek				
Sampled by:			LES	LES	LES	LES	LES
Date			94-7-26	94-9-7	94-10-27	95-7-10	95-9-6
Aluminum	Al	Dissolved	0.08	0.03	0.02	0.08	0.08
Antimony	Sb	Dissolved	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Arsenic	As	Dissolved	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Barium	Ba	Dissolved	0.0488	0.0465	0.0469	0.0449	0.0458
Beryllium	Be	Dissolved	< 0.0002	0.0002	< 0.0002	< 0.0002	< 0.0002
Bismuth	Bi	Dissolved	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Cadmium	Cd	Dissolved	0.0005	0.0005	0.0005	0.0005	0.0005
Cadmium	Cd	Dissolved	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Calcium	Ca	Dissolved	38.4	38.5	38.6	35.6	38.3
Chromium	Cr	Dissolved	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Cobalt	Co	Dissolved	< 0.001	< 0.001	< 0.001	< 0.001	0.001
Copper	Cu	Dissolved	0.002	0.003	0.006	0.01	0.003
Iron	Fe	Dissolved	0.041	0.099	0.073	0.039	0.048
Lead	Pb	Dissolved	0.001	0.010	0.010	0.010	0.005
Lead	Pb	Dissolved	< 0.001	< 0.01	< 0.01	< 0.01	< 0.005
Lithium	Li	Dissolved	< 0.002	< 0.002	0.002	0.002	0.004
Magnesium	Mg	Dissolved	10.9	12.5	11.6	11.1	12.5
Manganese	Mn	Dissolved	0.022		0.027	0.03	0.0426
Molybdenum	Mo	Dissolved	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Nickel	Ni	Dissolved	0.005	0.005	< 0.001	0.005	0.01
Phosphorus	P	Dissolved	< 0.06	< 0.06	< 0.06	< 0.06	0.21
Potassium	K	Dissolved	0.3	0.4	0.3	< 0.2	0.3
Selenium	Se	Dissolved	< 0.001	< 0.02	< 0.02	< 0.02	< 0.02
Silicon	Si	Dissolved	1.47	1.65	1.72	1.52	1.94
Silver	Ag	Dissolved	< 0.0001	< 0.001	< 0.001	< 0.001	< 0.001
Sodium	Na	Dissolved	1.24	1.53	1.5	1.49	1.35
Strontium	Sr	Dissolved	0.17	0.17	0.17	0.16	0.162
Sulfur	S	Dissolved	15.8	17.6	14.9	15.4	16.4
Tin	Sn	Dissolved	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005
Titanium	Ti	Dissolved	< 0.001	< 0.001	0.002	< 0.001	< 0.001
Thorium	Th	Dissolved	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005
Uranium	U	Dissolved	< 0.07	< 0.07	< 0.07	< 0.07	< 0.06
Vanadium	V	Dissolved	< 0.002	< 0.002	0.002	< 0.002	0.003
Zinc	Zn	Dissolved	0.008	0.011	0.01	0.029	0.026
Zirconium	Zr	Dissolved	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

STATION NUMBER:			LES 1				
STATION DESCRIPTION:			South McQuesten River upstream of Christal Creek				
Sampled by:			LES	LES	LES	LES	LES
Date			94-7-26	94-9-7	94-10-27	95-7-10	95-9-6
Aluminum	Al	Total	0.1	0.05	0.03	0.1	
Antimony	Sb	Total	< 0.02	<0.02	< 0.02	< 0.02	
Arsenic	As	Total	< 0.02	<0.02	< 0.02	< 0.02	
Barium	Ba	Total	0.0503	0.0469	0.0494	0.0466	
Beryllium	Be	Total	< 0.0002	<0.0002	< 0.0002	< 0.0002	
Bismuth	Bi	Total	< 0.02	<0.02	< 0.02	< 0.02	
Cadmium	Cd	Total	0.0005	0.0005	0.0005	0.0005	
Cadmium	Cd	Total	< 0.0005	<0.0005	< 0.0005	< 0.0005	
Calcium	Ca	Total	38.8	38.6	42.9	36	
Chromium	Cr	Total	< 0.001	<0.001	< 0.001	< 0.001	
Cobalt	Co	Total	< 0.001	<0.001	< 0.001	< 0.001	
Copper	Cu	Total	0.009	0.005	0.009	0.013	
Iron	Fe	Total	0.135	0.173	0.163	0.206	
Lead	Pb	Total	0.001	0.01	0.01	0.01	
Lead	Pb	Total	< 0.001	<0.01	< 0.01	< 0.01	
Lithium	Li	Total	< 0.002	<0.002	0.004	0.003	
Magnesium	Mg	Total	11	12.5	12.7	11.2	
Manganese	Mn	Total	0.036		0.031	0.042	
Molybdenum	Mo	Total	< 0.005	<0.005	< 0.005	< 0.005	
Nickel	Ni	Total	0.005	0.005	0.003	0.007	
Phosphorus	P	Total	< 0.06	<0.06	< 0.06	< 0.06	
Potassium	K	Total	0.3	0.4	0.3	< 0.2	
Selenium	Se	Total	< 0.001	<0.02	< 0.02	< 0.02	
Silicon	Si	Total	1.52	1.72	1.82	1.59	
Silver	Ag	Total	< 0.0001	<0.001	< 0.001	< 0.001	
Sodium	Na	Total	1.3	1.55	1.65	1.49	
Strontium	Sr	Total	0.17	0.17	0.18	0.16	
Sulfur	S	Total	16.2	17.9	17.4	15.5	
Tin	Sn	Total	< 0.01	<0.01	< 0.01	< 0.01	
Titanium	Ti	Total	< 0.001	<0.001	0.002	< 0.001	
Thorium	Th	Total	< 0.01	<0.01	< 0.01	< 0.01	
Uranium	U	Total	< 0.07	<0.07	< 0.07	< 0.07	
Vanadium	V	Total	< 0.002	<0.002	0.005	< 0.002	
Zinc	Zn	Total	0.013	0.011	0.011	0.029	
Zirconium	Zr	Total	< 0.001	<0.001	< 0.001	< 0.001	

STATION NUMBER: 2DD-S21								
STATION DESCRIPTION: South McQuesten River upstream of Christal Creek								
Sampled by:	EPS	EPS	EPS	EPS	EPS	EPS	EPS	EPS
DATE	74/7/15	75/6/6	75/7/9	85/7/9	85/9/21	86/4/25	86/7/23	86/9/19
FLOW (L/s)				5900	3300			
TEMP (oC)	18.0	9.8	20.5	16.0	11.0	5.9	17.4	6.8
PH insitu	7.8	7.9	8.0	8.4	8.1			
lab			8.0	8.0	7.5			
COND insitu	153	100	165	170	165			
(umhos/cm) lab				240	250			
DISSOLVED OXYGEN	10.9	10.1	8.9	8.3	10.4			
COLOUR (FTU)	20		24	20	10			
TURBIDITY (FTU)	0.7		0.01	0.45	0.16			
T. Alkalinity CaCO ₃			73.3	85.7	86.0			
T. Hardness CaCO ₃	100		100	132	136	154	128	129
Sulphate				30	42	56.9	38.0	41.3
Cl				0.7	0.5			
PO ₄				0.007	<0.002			
NO ₂				<0.005	<0.005			
NO ₃				0.010	0.008			
NH ₃				0.009	0.006			
NFR	<5		10	<5	<5			

STATION NUMBER: 2DD-S21**STATION DESCRIPTION: South McQuesten River upstream of Christal Creek**

Sampled by:		EPS	EPS	EPS	EPS	EPS	EPS	EPS	EPS
DATE		74/7/15	75/6/6	75/7/9	85/7/9	85/9/21	86/4/25	86/7/23	86/9/19
Ag	Ext			<0.03	<0.0005	<0.0005			
As	Ext				<0.05	<0.05			
B	Ext				0.011	0.019			
Ba	Ext				0.044	0.044			
Be	Ext				<0.001	<0.001			
Ca	Ext	26.0		28.0	36.8	36.9			
Cd	Ext	<0.01		<0.01	0.0014	<0.0005			
Co	Ext				<0.005	<0.005			
Cr	Ext				<0.005	<0.005			
Cu	Ext	<0.01		<0.01	0.003	<0.001			
Fe	Ext			0.18	0.199	0.103			
Mg	Ext	9.17		8.00	9.7	10.4			
Mn	Ext	0.030			0.070	0.018			
Mo	Ext	0.1		0.3	<0.005	<0.005			
Na	Ext				1.0	1.2			
Ni	Ext			<0.1	<0.02	<0.02			
P	Ext				<0.05	<0.05			
Pb	Ext	<0.02		<0.02	0.018	0.001			
Sb	Ext			<0.3	<0.05	<0.05			
Se	Ext				<0.05	<0.05			
Si	Ext				1.3	1.8			
Sn	Ext				<0.01	<0.03			
Sr	Ext				0.145	0.152			
Ti	Ext				<0.002	<0.002			
V	Ext				<0.005	<0.005			
Zn	Ext	0.01		0.01	0.008	<0.002			
Mn	Diss						0.044	0.004	0.020
Zn	Diss						0.009	0.014	0.022
Mn	Total						0.045	0.025	0.024
Zn	Total						0.012	0.016	0.033
CN									

STATION NUMBER:		2DD-S21							
STATION DESCRIPTION:		South McQuesten River upstream of Christal Creek							
Sampled by:		EPS	EPS	EPS	EPS	EPS	EPS	EPS	EPS
DATE		87/4/9	87/6/17	87/10/29	87/12/8	88/4/13	88/8/4	90/7/24	90/9/20
FLOW	(L/s)								
TEMP	(°C)	2.9	15.0	3.3		0.4	16.1	17.4	6.8
PH	insitu							8.27	
	lab								8.1
COND	insitu							222	168
(umhos/cm)	lab							272	269
DISSOLVED	OXYGEN							9.11	10.8
COLOUR	(FTU)							10	15
TURBIDITY	(FTU)							0.2	0.2
T. Alkalinity	CaCO ₃							94	89
T. Hardness	CaCO ₃	188	170	161	172	177	127	131	131
Sulphate		68.0		54.8	58.0	57.0	37.0	38	41.3
Cl								0.7	0.5
PO ₄								0.003	0.005
NO ₂								<0.002	<0.002
NO ₃								0.012	0.030
NH ₃								0.014	0.006
NFR								<10	<10

STATION NUMBER:		2DD-S21							
STATION DESCRIPTION:		South McQuesten River upstream of Christal Creek							
Sampled by:		EPS	EPS	EPS	EPS	EPS	EPS	EPS	EPS
DATE		87/4/9	87/6/17	87/10/29	87/12/8	88/4/13	88/8/4	90/7/24	90/9/20
Ag	Ext							0.0003	0.0010
As	Ext							0.07	<0.05
B	Ext							<0.01	<0.01
Ba	Ext							0.047	0.043
Be	Ext							<0.001	<0.001
Ca	Ext							34.5	34.6
Cd	Ext							<0.0001	0.0001
Co	Ext							<0.005	<0.005
Cr	Ext							<0.005	<0.005
Cu	Ext							0.0008	0.0012
Fe	Ext							0.115	0.116
Mg	Ext							10.7	10.6
Mn	Ext							0.025	0.024
Mo	Ext							<0.01	<0.01
Na	Ext							1.4	1.1
Ni	Ext							<0.02	<0.02
P	Ext							<0.1	<0.1
Pb	Ext							0.0006	0.0008
Sb	Ext							<0.05	<0.05
Se	Ext							<0.05	<0.05
Si	Ext							1.63	1.90
Sn	Ext							<0.05	<0.05
Sr	Ext							0.163	0.148
Ti	Ext							<0.002	<0.002
V	Ext							<0.01	<0.01
Zn	Ext							0.003	0.018
Mn	Diss	0.030	0.026	0.025	0.039	0.017	0.024		
Zn	Diss	0.029	0.033	0.007	0.015	0.007	0.009		
Mn	Total	0.028	0.043	0.031	0.037	0.019	0.033		0.024
Zn	Total	0.007	0.028	0.01	0.016	0.007	0.012		0.033
CN									

STATION NUMBER: 2DD-S21																
STATION DESCRIPTI South McQuesten River upstream of Christal Creek																
SAMPLER	DATE	FLOW	TEMP	pH		COND (umhos/cm)		NFR	Ag	Cd	Cu	Fe	Mn	Pb	Zn	CN
		(L/s)	(oC)	lab	insitu	lab			Ext	Ext	Ext	Ext	Ext	Ext	Ext	
UKHM	94/5/31		8.6		7.90		200	8		0.000	0.000	0.02	0.27	0.070	0.03	
UKHM	94/6/27		12.0		8.40		200	4		0.040	0.000	0.04	0.03	0.010	0.04	
UKHM	94/7/29		17.0		8.20		200	0		0.000	0.010	0.46	0.21	0.050	0.03	
UKHM	94/10/31		0.5		8.40		190	4		<0.001	<0.002	0.40	0.32	<0.005	0.01	
UKHM	94/11/29		0.5		7.35		320	28		<0.001	<0.002	0.60	0.10	0.010	0.03	
UKHM	95/1/1		0.5		7.60		480	0		<0.001	<0.002	0.60	0.12	<0.005	0.12	
UKHM	95/2/6		0.5		7.10		550	0		<0.001	<0.002	0.40	0.19	0.005	0.05	
UKHM	95/3/29		1.0		7.00		530	0		<0.001	<0.002	0.20	0.19	<0.005	0.04	
UKHM	95/4/27		2.0		7.48		280	4		<0.001	<0.002	0.40	0.07	0.030	0.02	
UKHM	95/5/3		1.0		7.31		215	44		<0.001	0.002	1.40	0.14	<0.005	0.05	
UKHM	95/6/6		13.0		7.20		175	12		<0.001	0.002	0.20	0.05	<0.005	0.04	
UKHM	95/8/11		14.0		8.05		195	14		<0.001	0.002	<0.2	0.04	0.010	0.04	
UKHM	95/9/3		11.0		8.14		180	8		<0.001	<0.002	0.20	0.04	0.005	0.03	

Appendix VIII

Rock Characterization

GALENA & KENO HILL ROCK SAMPLING

LOCATION	SAMPLE ID	SAMPLE DESCRIPTION
OXYE adit dump		
	95UKHDD01	grey fine gr. mat'l, minor > 3", 3" rusty bands every 12"
	95UKHDD02	brownish & grey fine gr. mat'l (broken schist, some fragments, grey qtzite)
	95UKHDD03	grey fine gr. mat'l, rusty bands (6") every 14", sample from 8' depth
BERMINGHAM pit wall		
	95UKHBP01	thin bedded qtzite, rusty weathering; North wall of pit
	95UKHBP02	thick bedded blocky, rusty weathering qtzite; manganese staining (?); above old birm. shaft; N. wall pit
	95UKHBP03	thick bedded, blocky qtzite, buff weathering, some minor graphitic schist talus; N. wall pit
	95UKHBP04	rusty weathering, blocky qtzite, minor schist; 70% > 4", 10% > 8"
	95UKHBP05	buff weathering blocky qtzite, 70% > 4"
	95UKHBP06	graphitic schist, platy talus on South pit wall, 1/2" x 8" pieces
	95UKHBP07	sericitic schist, platy to blocky talus on S. pit bench
BERMINGHAM pit dump		
	95UKHBD01	fine grained ore stockpile (1/2" > x < 3"), rusty weathering, 70% "soil" fraction mat'l
	95UKHBD02	fine grained ore stockpile (1/2" > x < 3"), rusty weathering, 70% "soil" fraction mat'l
	95UKHBD03	ore and colluvium (?) scraped from floor of ore stockpile area
	95UKHBD04	graphitic schist
	95UKHBD05	ore and colluvium (?) scraped from floor of ore stockpile area
	95UKHBD06	buff weathering, blocky qtzite
RUBY adit dump		
	95UKHRD01	grey - black fine grained qtzite rubble, iron stain banding (one only, 6" thick, dipping 45°)
	95UKHRD02	grey - black fine grained qtzite rubble, weak iron stain banding (one only, 6" thick, dipping 45°)
	95UKHRD03	grey - black fine grained qtzite rubble, iron stain banding (one only, 6" thick, dipping 45°)
CALUMET 1-14 pit dump		
	95UKHCD01	buff weathering, altered (?) qtzite, rusty fractures
	95UKHCD02	buff weathering, blocky qtzite, rusty fracturing, possibly some vein material (15%)
HUSKY S.W. shaft dump		
	95UKHWD01	very pyritic grey qtzite
CALUMET 1-15 pit wall		
	95UKHCP01	graphitic schist, platy talus (1/2" thick x 6-10" long)
	95UKHCP02	grey blocky qtzite, maroon fractures, > 60% > 4"
CALUMET 1-15 pit dump		
	95UKHCD04	grey blocky qtzite, maroon weathering on fractures
	95UKHCD03	ore stockpile scrapings mixed with some colluvium, minor buff weathering qtzite w/ rusty fractures
MILLER pit dump		
	95UKHMD01	greenish-grey fine grained qtzite, rusty weathering on fracture surfaces, some pyrite casts
HECTOR adit dump		
	95UKHHD01	grey qtzite rubble, mixed with debris; top of dump
	95UKHHD02	grey qtzite rubble, mixed with debris; top of dump
	95UKHHD03	green sericite schist rubble, woody debris & fines; toe of dump
SIME 6 pit wall		
	95UKHSP01	grey, platy graphitic schist; 1/4" thick x 4-10" long
	95UKHSP02	buff weathering, blocky qtzite, some rusty fracture surfaces
SIME 4 pit wall		
	95UKHSP03	thick bedded, grey massive qtzite, some pyrite casts, all surfaces iron stained
SIME 35 pit wall		
	95UKHSP04	
	95UKHSP05	
SIME 4 & 5 pits dump		
	95UKHSD01	clean buff qtzite, 4" blocks, minor oxidation on 50% of fracture surfaces
ONEK pit		
	95UKHOP02	mixed interbedded (graphitic schist) & qtzite, mostly > 4" chunks
ONEK pit dump		
	95UKHOD01	greenstone, blocky 3" x 7" pieces and chips
	95UKHOD02	buff weathered qtzite, rusty fractures

LOCATION	SAMPLE ID	SAMPLE DESCRIPTION
	95UKHOD03	grey platy graphitic schist, 1/2" x 7"
BRISKY shaft dump		
	95UKHYD01	dark grey very pyritic qtzite, qtz stringers, 80% > 3", 20% < 3" + sand size fraction (major acidic seep at toe)
KENO 700 adit dump		
	95UKHKD01	grey qtzite, qtz bands
	95UKHKD02	green sericitic schist
LN adit dump		
	95UKHUD01	mixture grey graphitic schist & buff weath. qtzite, 90" + 3", 70" < 3"
TOWNSITE adit dump		
	95UKHTD01	buff weathering qtzite, 10% > 3", mostly fine fraction, some oxidation
	95UKHTD02	grey qtzite with sericite schist, 10% > 3", mostly fine fraction
BELLEKENO adit dump		
	95UKHLD01	dark grey pyritic qtzite, qtz stringers abundant
SILVER KING pit dump		
	95UKHVD01	mixed grey & buff qtzite, minor schist, some sand size particles
TOTAL SAMPLE SITES: 48		
TOTAL PAILS: 89		

GALENA & KENO HILL ROCK SAMPLING

LOCATION	SAMPLE ID	PASTE pH	S (tot.) %	S (SO ₄) %	AP kg CaCO ₃ /tonne	NP kg CaCO ₃ /t	NET NP kg CaCO ₃ /t	NP/AP
DIXIE								
adit dump	95UKHDD01	4.14	0.35	0.28	2.19	0.00	-2.2	<0.10
	95UKHDD02	4.44	0.51	0.34	5.31	2.25	-3.1	0.4
	95UKHDD03	5.55	0.47	0.42	1.56	13.56	12.0	8.7
BERMINGHAM								
pit wall	95UKHBP01	7.05	0.09	0.09	0.00	1.50	1.5	---
	95UKHBP02	7.09	0.07	0.07	0.00	1.75	1.8	---
	95UKHBP03	6.94	0.21	0.20	0.31	0.00	-0.3	<0.10
	95UKHBP04	6.89	0.04	0.03	0.31	0.25	-0.1	0.8
	95UKHBP05	6.87	0.07	0.06	0.31	1.56	1.3	5.0
	95UKHBP06	8.03	0.95	0.27	21.25	70.13	48.9	3.3
	95UKHBP07	8.68	0.19	0.16	0.94	9.63	8.7	10.3
BERMINGHAM								
pit dump	95UKHBD01	7.34	0.30	0.30	0.00	6.00	6.0	---
	95UKHBD02	7.20	0.32	0.31	0.31	7.19	6.9	23.0
	95UKHBD03	6.62	1.94	0.69	39.06	155.63	116.6	4.0
	95UKHBD04	7.24	0.49	0.21	8.75	14.13	5.4	1.6
	95UKHBD05	7.56	2.50	0.54	61.25	144.38	83.1	2.4
	95UKHBD06	7.32	0.07	0.07	0.00	0.00	0.0	---
RUBY								
adit dump	95UKHRD01	7.82	1.06	0.43	19.69	36.25	16.6	1.8
	95UKHRD02	7.83	0.72	0.28	13.75	51.13	37.4	3.7
	95UKHRD03	7.02	0.66	0.32	10.63	15.00	4.4	1.4
CALUMET								
1-14 pit dump	95UKHCD01	6.55	0.05	0.05	0.00	0.63	0.6	---
	95UKHCD02	5.54	0.41	0.41	0.00	0.00	0.0	---
HUSKY S.W.								
shaft dump	95UKHWD01	3.72	0.96	0.28	21.25	0.00	-21.3	<0.10
Husky shaft dump	95UKHYD01	3.69	7.76	0.09	239.69	0.00	-239.7	<0.10
CALUMET								
1-15 pit wall	95UKHCP01	5.75	0.09	0.06	0.94	0.25	-0.7	0.3
	95UKHCP02	6.83	0.04	0.04	0.00	0.38	0.4	---
CALUMET								
1-15 pit dump	95UKHCD04	6.82	0.01	0.01	0.00	0.63	0.6	---
	95UKHCD03	6.34	0.12	0.11	0.31	0.87	0.6	2.8
MILLER								
pit dump	95UKHMD01	6.43	0.03	0.02	0.31	0.38	0.1	1.2

GALENA & KENO HILL ROCK SAMPLING								
LOCATION	SAMPLE ID	PASTE	S (tot.)	S (SO ₄)	AP	NP	NET NP	NP/AP
		pH	%	%	kg CaCO ₃ /tonne		kg CaCO ₃ /t	
HECTOR								
adit dump	95UKHHD01	6.01	2.10	0.48	50.63	0.00	-50.6	<0.10
	95UKHHD02	6.35	1.92	0.31	50.31	47.75	-2.6	0.9
	95UKHHD03	6.94	0.84	0.26	18.13	32.38	14.3	1.8
SIME 6								
pit wall	95UKHSP01	6.15	0.09	0.07	0.63	1.75	1.1	2.8
	95UKHSP02	6.49	0.03	0.03	0.00	0.75	0.8	---
SIME 4								
pit wall	95UKHSP03	6.57	<0.01	<0.01	0.00	0.81	0.8	---
SIME 35								
pit wall	95UKHSP04	6.47	0.11	0.11	0.00	2.50	2.5	---
	95UKHSP05	7.08	0.02	0.01	0.31	0.00	-0.3	<0.10
SIME 4 & 6								
pit dump	95UKHSD01	7.08	0.04	<0.01	1.09	1.38	0.3	1.3
ONEK pit								
	95UKHOP02	8.49	0.16	0.08	2.50	0.00	-2.5	<0.10
ONEK								
pit dump	95UKHOD01	8.08	0.13	0.12	0.31	0.00	-0.3	<0.10
	95UKHOD02	7.62	0.01	<0.01	0.16	1.63	1.5	10.2
	95UKHOD03	8.16	0.23	0.17	1.88	52.25	50.4	27.9
KENO 700								
adit dump	95UKHKD01	8.03	1.03	0.16	27.19	47.00	19.8	1.7
	95UKHKD02	8.22	0.45	0.16	9.06	10.94	1.9	1.2
UN adit dump								
	95UKHUD01	7.69	0.08	0.06	0.63	1.56	0.9	2.5
TOWNSITE								
adit dump	95UKHTD01	6.33	1.16	0.11	32.81	0.00	-32.8	<0.10
	95UKHTD02	6.78	0.33	0.26	2.19	0.00	-2.2	<0.10
BELLEKENO								
adit dump	95UKHLD01	8.05	0.50	0.22	8.75	130.00	121.3	14.9
SILVER KING								
pit dump	95UKHVD01	7.36	0.06	0.03	0.94	0.00	-0.9	<0.10

GALENA & KENO HILL ROCK SAMPLING - ICP DATA BY SITE

LOCATION	SAMPLE ID	As ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mn ppm	Ni ppm	Pb ppm	Sb ppm	Zn ppm	S (tot.) %	S (SO ₄) %
BERMINGHAM	95UKHBD06	1	0.05	5.7	2	53	17	0.68	993	7	778	15	218	0.07	0.07
BERMINGHAM	95UKHBP03	126	0.08	0.6	16	8	18	9.98	7175	53	1097	1	2237	0.21	0.20
BERMINGHAM	95UKHBP05	1	0.05	4.6	1	29	10	0.81	2068	8	352	2	313	0.07	0.06
BERMINGHAM	95UKHBP01	1	0.21	0.1	9	82	48	2.32	620	26	186	4	311	0.09	0.09
BERMINGHAM	95UKHBP02	1	0.23	21.6	6	46	20	1.79	2172	20	84	12	595	0.07	0.07
BERMINGHAM	95UKHBP07	1	0.51	0.1	8	49	23	2.27	335	18	49	1	78	0.19	0.16
BERMINGHAM	95UKHBD04	1	0.20	>100	9	5	105	5.35	>10000	50	>10000	110	3468	0.49	0.21
BERMINGHAM	95UKHBP06	1	2.38	0.1	9	67	20	1.67	549	20	19	1	77	0.95	0.27
BERMINGHAM	95UKHBD01	1	0.20	>100	11	1	146	8.23	>10000	73	6503	164	2103	0.30	0.30
BERMINGHAM	95UKHBD02	1	0.40	65.2	11	1	78	5.43	>10000	57	3864	76	1324	0.32	0.31
BERMINGHAM	95UKHBD03	1	0.98	>100	25	1	156	>15.00	>10000	331	>10000	180	>10000	1.94	0.69
BERMINGHAM	95UKHBD05	1	3.02	>100	30	1	123	13.02	>10000	145	3073	77	8800	2.50	0.54
BERMINGHAM	95UKHBP04	1	0.03	0.1	3	57	6	0.81	235	10	45	3	83	0.04	0.03
Average		11	0.64	38.3	11	31	59	5.18	4934	63	2773	50	2277	0.56	0.23
Std. Dev.		35	0.96	46.3	9	29	55	4.91	4526	89	3749	65	3340	0.79	0.20
Median		1	0.21	5.7	9	29	23	2.32	2172	26	778	12	595	0.21	0.20
Maximum		126	3.02	>100	30	82	156	>15.00	>10000	331	>10000	180	>10000	2.50	0.69
Minimum		1	0.03	0.1	1	1	6	0.68	235	7	19	1	77	0.04	0.03
Count		13	13	13	13	13	13	13	13	13	13	13	13	13	13
CALUMET	95UKHCD03	189	0.03	6.8	4	47	192	2.53	2193	15	>10000	168	805	0.12	0.11
CALUMET	95UKHCP02	25	0.11	0.3	1	55	6	0.55	30	5	380	4	99	0.41	0.41
CALUMET	95UKHCD01	44	0.01	0.1	3	59	97	1.35	520	12	>10000	51	376	0.05	0.05
CALUMET	95UKHCD02	114	0.03	1.5	12	1	575	10.52	>10000	46	>10000	360	3516	0.04	0.04
CALUMET	95UKHCP01	1	0.03	0.1	4	53	45	3.00	28	13	534	5	483	0.09	0.06
CALUMET	95UKHCD04	1	0.06	25.3	2	30	14	0.73	1512	8	357	9	643	0.01	0.01
Average		62	0.05	5.7	4	41	155	3.11	2381	17	5212	100	987	0.12	0.11
Std. Dev.		75	0.04	9.9	4	22	217	3.76	3831	15	5246	142	1262	0.15	0.15
Median		35	0.03	0.9	4	50	71	1.94	1016	13	5267	30	563	0.07	0.06
Maximum		189	0.11	25.3	12	59	575	10.52	>10000	46	>10000	360	3516	0.41	0.41
Minimum		1	0.01	0.1	1	1	6	0.55	28	5	357	4	99	0.01	0.01
Count		6	6	6	6	6	6	6	6	6	6	6	6	6	6

GALENA & KENO HILL ROCK SAMPLING - ICP DATA BY SITE															
LOCATION	SAMPLE ID	As ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mn ppm	Ni ppm	Pb ppm	Sb ppm	Zn ppm	S (tot.) %	S (SO ₄) %
DIXIE	95UKHDD01	1	0.38	0.1	4	95	13	1.59	470	16	176	15	336	0.35	0.28
DIXIE	95UKHDD03	1	1.03	0.1	5	90	13	1.17	257	16	65	3	186	0.47	0.42
DIXIE	95UKHDD02	1	0.27	5.8	4	72	24	1.93	4454	21	567	18	771	0.51	0.34
Average		1	0.56	2.0	4	86	17	1.56	1727	18	269	12	431	0.44	0.35
Std. Dev.		0	0.41	3.3	1	12	6	0.38	2364	3	264	8	304	0.08	0.07
Median		1	0.38	0.1	4	90	13	1.59	470	16	176	15	336	0.47	0.34
Count		3	3	3	3	3	3	3	3	3	3	3	3	3	3
HECTOR	95UKHHD01	1	0.79	>100	16	1	162	10.42	>10000	124	2768	114	>10000	2.10	0.48
HECTOR	95UKHHD02	1	1.07	>100	12	1	32	8.76	>10000	114	852	51	>10000	1.92	0.31
HECTOR	95UKHHD03	1	1.07	50.6	8	60	48	2.93	9328	40	1000	50	4054	0.84	0.26
Average		1	0.98	83.5	12	21	81	7.37	9776	93	1540	72	8018	1.62	0.35
Std. Dev.		0	0.16	28.5	4	34	71	3.93	388	46	1066	37	3433	0.68	0.12
Median		1	1.07	>100	12	1	48	8.76	>10000	114	1000	51	>10000	1.92	0.31
Count		3	3	3	3	3	3	3	3	3	3	3	3	3	3
KENO 700	95UKHKD01	1	2.03	>100	7	41	51	2.66	6094	28	2473	53	>10000	1.03	0.16
KENO 700	95UKHKD02	1	0.73	9.8	13	48	108	2.45	3415	35	808	9	1460	0.45	0.16
BELLEKENO	95UKHLD01	81	5.47	0.1	3	68	6	0.61	129	7	123	3	31	0.50	0.22
MILLER	95UKHMD01	1	0.06	11.3	3	41	13	1.55	5094	17	462	5	902	0.03	0.02
ONEK	95UKHOD02	66	0.05	0.1	1	45	34	0.46	69	4	198	2	96	0.01	<0.01
ONEK	95UKHOD03	1	2.47	0.1	10	44	23	2.45	200	26	40	1	85	0.23	0.17
ONEK	95UKHOD01	1	0.93	0.1	23	99	129	3.26	568	48	14	1	190	0.13	0.12
ONEK pit	95UKHOP02	15	1.40	0.1	6	63	9	0.93	410	11	20	1	498	0.16	0.08
Average		21	1.21	0.1	10	63	49	1.78	312	22	68	1	217	0.13	0.10
Std. Dev.		31	1.01	0.0	9	26	54	1.30	221	19	87	1	193	0.09	0.07
Median		8	1.17	0.1	8	54	29	1.69	305	19	30	1	143	0.15	0.10
Count		4	4	4	4	4	4	4	4	4	4	4	4	4	4

GALENA & KENO HILL ROCK SAMPLING - ICP DATA BY SITE

LOCATION	SAMPLE ID	As ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mn ppm	Ni ppm	Pb ppm	Sb ppm	Zn ppm	S (tot.) %	S (SO ₄) %
RUBY	95UKHRD01	1	1.92	0.1	13	49	25	2.14	3450	45	162	5	439	1.06	0.43
RUBY	95UKHRD02	1	2.19	10.4	5	62	54	1.60	1810	22	1339	46	646	0.72	0.28
RUBY	95UKHRD03	1	1.13	0.1	16	43	77	2.72	1192	27	559	8	460	0.66	0.32
Average		1	1.75	3.5	11	51	52	2.15	2151	31	687	20	515	0.81	0.34
Std. Dev.		0	0.55	5.9	6	10	26	0.56	1167	12	599	23	114	0.22	0.08
Median		1	1.92	0.1	13	49	54	2.14	1810	27	559	8	460	0.72	0.32
Count		3	3	3	3	3	3	3	3	3	3	3	3	3	3
SIME 4	95UKHSP03	62	0.01	2.0	1	48	5	0.20	13	3	205	6	36	0.04	<0.01
SIME 4 & 6	95UKHSD01	1	0.08	8.6	2	44	6	0.47	927	10	126	3	334	0.09	0.07
SIME 6	95UKHSP02	1	0.02	0.1	2	51	13	0.89	43	7	874	7	106	0.03	0.03
SIME 6	95UKHSP01	15	0.29	1.3	4	42	45	2.50	258	15	1160	15	747	<0.01	<0.01
SIME 35	95UKHSP04	1	0.32	0.1	8	51	36	3.62	324	23	1380	8	676	0.11	0.11
SIME 35	95UKHSP05	22	0.03	0.1	1	53	4	0.41	60	5	15	3	93	0.02	0.01
Average		17	0.13	2.0	3	48	18	1.35	271	11	627	7	332	0.05	0.04
Std. Dev.		24	0.14	3.3	3	4	18	1.39	345	7	586	4	312	0.04	0.04
Median		8	0.06	0.7	2	50	10	0.68	159	9	540	7	220	0.04	0.02
Maximum		62	0.32	8.6	8	53	45	3.62	927	23	1380	15	747	0.11	0.11
Minimum		1	0.01	0.1	1	42	4	0.20	13	3	15	3	36	<0.01	<0.01
Count		6	6	6	6	6	6	6	6	6	6	6	6	6	6
TOWNSITE	95UKHTD01	1	0.40	94.6	7	37	37	2.57	5781	27	1213	23	5632	1.16	0.11
	95UKHTD02	79	0.18	53.8	6	50	339	3.61	2681	22	10000	571	1882	0.33	0.26
UN adit dump	95UKHUD01	1	0.14	0.1	4	35	48	1.94	55	16	660	11	220	0.08	0.06
SILVER KING	95UKHVD01	39	0.07	0.1	2	62	11	0.61	22	5	28	2	20	0.06	0.03
HUSKY	95UKHYD01	226	0.03	0.1	10	52	15	5.49	81	25	129	1	94	7.76	0.09
HUSKY S.W.	95UKHWD01	1	0.19	0.1	10	66	23	2.16	438	18	400	8	62	0.96	0.28

GALENA & KENO HILL ROCK SAMPLING - ICP DATA BY ROCK

LOCATION	SAMPLE ID	As ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mn ppm	Ni ppm	Pb ppm	Sb ppm	Zn ppm	S (tot.) %	S (SO ₄) %
QUARTZITE SAMPLES															
CALUMET	95UKHCD03	189	0.03	6.8	4	47	192	2.53	2193	15	>10000	168	805	0.12	0.11
CALUMET	95UKHCP02	25	0.11	0.3	1	55	8	0.55	30	5	380	4	99	0.41	0.41
DIXIE	95UKHDD01	1	0.38	0.1	4	95	13	1.59	470	16	176	15	336	0.35	0.28
DIXIE	95UKHDD03	1	1.03	0.1	5	90	13	1.17	257	16	65	3	186	0.47	0.42
HECTOR	95UKHHD01	1	0.79	>100	16	1	162	10.42	>10000	124	2768	114	>10000	2.10	0.48
HECTOR	95UKHHD02	1	1.07	>100	12	1	32	8.76	>10000	114	852	51	>10000	1.92	0.31
KENO 700	95UKHKD01	1	2.03	>100	7	41	51	2.66	6094	28	2473	53	>10000	1.03	0.16
MILLER	95UKHMD01	1	0.06	11.3	3	41	13	1.55	5094	17	462	5	902	0.03	0.02
RUBY	95UKHRD01	1	1.92	0.1	13	49	25	2.14	3450	45	162	5	439	1.06	0.43
RUBY	95UKHRD02	1	2.19	10.4	5	62	54	1.60	1810	22	1339	46	646	0.72	0.28
RUBY	95UKHRD03	1	1.13	0.1	16	43	77	2.72	1192	27	559	8	460	0.66	0.32
SILVER KING	95UKHVD01	39	0.07	0.1	2	62	11	0.81	22	5	28	2	20	0.06	0.03
SIME 4	95UKHSP03	62	0.01	2.0	1	48	5	0.20	13	3	205	6	36	0.04	<0.01
BERMINGHAM	95UKHBD06	1	0.05	5.7	2	53	17	0.68	993	7	778	15	218	0.07	0.07
BERMINGHAM	95UKHBP03	126	0.08	0.6	16	8	18	9.98	7175	53	1097	1	2237	0.21	0.20
BERMINGHAM	95UKHBP05	1	0.05	4.6	1	29	10	0.81	2068	8	352	2	313	0.07	0.06
CALUMET	95UKHCD01	44	0.01	0.1	3	59	97	1.35	520	12	>10000	51	376	0.05	0.05
CALUMET	95UKHCD02	114	0.03	1.5	12	1	575	10.52	>10000	46	>10000	360	3516	0.04	0.04
ONEK	95UKHOD02	66	0.05	0.1	1	45	34	0.46	69	4	198	2	96	0.01	<0.01
SIME 4 & 6	95UKHSD01	1	0.08	8.6	2	44	6	0.47	927	10	126	3	334	0.09	0.07
SIME 6	95UKHSP02	1	0.02	0.1	2	51	13	0.89	43	7	874	7	106	0.03	0.03
TOWNSITE	95UKHTD01	1	0.40	94.6	7	37	37	2.57	5781	27	1213	23	5632	1.16	0.11
BERMINGHAM	95UKHBP01	1	0.21	0.1	9	82	48	2.32	620	26	186	4	311	0.09	0.09
BERMINGHAM	95UKHBP02	1	0.23	21.6	6	46	20	1.79	2172	20	84	12	595	0.07	0.07
BELLEKENO	95UKHLD01	81	5.47	0.1	3	68	6	0.61	129	7	123	3	31	0.50	0.22
HUSKY	95UKHYD01	226	0.03	0.1	10	52	15	5.49	81	25	129	1	94	7.76	0.09
HUSKY S.W.	95UKHWD01	1	0.19	0.1	10	66	23	2.16	438	18	400	8	62	0.96	0.28
Average		37	0.66	17.4	6	47	58	2.84	2653	26	1668	36	1772	0.74	0.17
Median		1	0.11	0.6	5	48	20	1.60	993	17	400	7	336	0.21	0.11
Maximum		226	5.47	>100	16	95	575	10.52	>10000	124	>10000	360	>10000	7.76	0.48
Minimum		1	0.01	0.1	1	1	5	0.20	13	3	28	1	20	0.01	<0.01
Count		27	27	27	27	27	27	27	27	27	27	27	27	27	27

GALENA & KENO HILL ROCK SAMPLING - ICP DATA BY ROCK															
LOCATION	SAMPLE ID	As ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mn ppm	Ni ppm	Pb ppm	Sb ppm	Zn ppm	S (tot.) %	S (SO ₄) %
SCHIST SAMPLES															
BERMINGHAM	95UKHBP07	1	0.51	0.1	8	49	23	2.27	335	18	49	1	78	0.19	0.16
BERMINGHAM	95UKHBD04	1	0.20	>100	9	5	105	5.35	>10000	50	>10000	110	3468	0.49	0.21
BERMINGHAM	95UKHBP06	1	2.38	0.1	9	67	20	1.67	549	20	19	1	77	0.95	0.27
CALUMET	95UKHCP01	1	0.03	0.1	4	53	45	3.00	28	13	534	5	483	0.09	0.06
HECTOR	95UKHHD03	1	1.07	50.6	8	60	48	2.93	9328	40	1000	50	4054	0.84	0.26
KENO 700	95UKHKD02	1	0.73	9.8	13	48	108	2.45	3415	35	808	9	1460	0.45	0.16
ONEK	95UKHOD03	1	2.47	0.1	10	44	23	2.45	200	26	40	1	85	0.23	0.17
SIME 6	95UKHSP01	15	0.29	1.3	4	42	45	2.50	258	15	1160	15	747	<0.01	<0.01
Average		3	0.96	20.26	8	46	52	2.83	3014	27	1701	24	1307	0.41	0.16
Std. Dev.		5	0.96	36.59	3	19	35	1.10	4251	13	3383	38	1592	0.34	0.09
Median		1	0.62	0.70	9	49	45	2.48	442	23	671	7	615	0.34	0.17
Maximum		15	2.47	>100	13	67	108	5.35	>10000	50	>10000	110	4054	0.95	0.27
Minimum		1	0.03	0.1	4	5	20	1.67	28	13	19	1	77	<0.01	<0.01
Count		8	8	8	8	8	8	8	8	8	8	8	8	8	8
VEIN SAMPLES															
BERMINGHAM	95UKHBD01	1	0.20	>100	11	1	146	8.23	>10000	73	6503	164	2103	0.30	0.30
BERMINGHAM	95UKHBD02	1	0.40	65.2	11	1	78	5.43	>10000	57	3864	76	1324	0.32	0.31
BERMINGHAM	95UKHBD03	1	0.98	>100	25	1	156	>15.00	>10000	331	>10000	180	>10000	1.94	0.69
BERMINGHAM	95UKHBD05	1	3.02	>100	30	1	123	13.02	>10000	145	3073	77	8800	2.50	0.54
CALUMET	95UKHCD04	1	0.06	25.3	2	30	14	0.73	1512	8	357	9	643	0.01	0.01
Average		1	0.93	78.1	16	7	103	8.48	8302	123	4759	101	4574	1.01	0.37
Std. Dev.		0	1.22	33.1	11	13	58	5.76	3796	126	3658	70	4456	1.13	0.26
Median		1	0.40	>100	11	1	123	8.23	>10000	73	3864	77	2103	0.32	0.31
Maximum		1	3.02	>100	30	30	156	>15.00	>10000	331	>10000	180	>10000	2.50	0.69
Minimum		1	0.06	25.3	2	1	14	0.73	1512	8	357	9	643	0.01	0.01
Count		5	5	5	5	5	5	5	5	5	5	5	5	5	5

GALENA & KENO HILL ROCK SAMPLING - ICP DATA BY ROCK

LOCATION	SAMPLE ID	As ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mn ppm	Ni ppm	Pb ppm	Sb ppm	Zn ppm	S (tot.) %	S (SO ₄) %
MIXED SCHIST AND QUARTZITE															
BERMINGHAM	95UKHBP04	1	0.03	0.1	3	57	6	0.81	235	10	45	3	83	0.04	0.03
DIXIE	95UKHDD02	1	0.27	5.8	4	72	24	1.93	4454	21	567	18	771	0.51	0.34
ONEK pit	95UKHOP02	15	1.40	0.1	6	63	9	0.93	410	11	20	1	498	0.16	0.08
TOWNSITE	95UKHTD02	79	0.18	53.8	6	50	339	3.61	2681	22	>10000	571	1882	0.33	0.26
UN adit dump	95UKHUD01	1	0.14	0.1	4	35	48	1.94	55	16	660	11	220	0.08	0.06
Average		19	0.40	12.0	5	55	85	1.84	1567	16	2258	121	691	0.22	0.15
Std. Dev.		34	0.56	23.5	1	14	143	1.12	1935	6	4338	252	717	0.19	0.14
Median		1	0.18	0.1	4	57	24	1.93	410	16	567	11	498	0.16	0.08
Maximum		79	1.40	53.8	6	72	339	3.61	4454	22	>10000	571	1882	0.51	0.34
Minimum		1	0.03	0.1	3	35	6	0.81	55	10	20	1	83	0.04	0.03
Count		5	5	5	5	5	5	5	5	5	5	5	5	5	5
GREENSTONE SAMPLE															
ONEK	95UKHOD01	1	0.93	0.1	23	99	129	3.26	568	48	14	1	190	0.13	0.12
SIME 35	95UKHSP04	1	0.32	0.1	8	51	36	3.62	324	23	1380	8	676	0.11	0.11
SIME 35	95UKHSP05	22	0.03	0.1	1	53	4	0.41	60	5	15	3	93	0.02	0.01

WASTE ROCK SAMPLES - SHAKE FLASK EXTRACTION TESTS

SAMPLE	Sample Weight (g)	Water Vol. (mL)	----- 24 HOUR -----							
			pH	pH	Conductivity		Redox	Alkalinity	Acidity	Sulphate
			3 HR.	24 hr.	(uS/cm)		(mV)		(pH 8.3)	(mg/L)
					3 HR	24 hr.			-(mg CaCO3/L)-	
95UKHCD04*	250	750	5.9	5.7	7	10	423	1.5	7	4
95UKHDD03	250	500	2.94	2.91	1849	2630	607	0	537	1504
95UKHHD01	250	500	2.33	2.25	2930	3810	524	0	890	1845
95UKHHD02	250	500	5.77	6.9	1083	1521	373	13.5	10	883
95UKHKD01	250	500	6.27	7	205	361	364	12	12	92
95UKHRD01	250	500	6.82	7.68	1344	2250	375	22	1.5	1540
95UKHRD02	250	500	6.32	6.48	806	1241	398	4	4.5	691
95UKHSP03	250	500	5.5	5.81	5	6	340	2	4	<3
95UKHVD01	250	500	6.04	5.97	303	327	352	8	3	131
95UKHBP05*	250	500	6.7	6.46	14	17	271	3.5	3	5
95UKHCD01	250	500	5.52	5.16	67	96	422	1.5	7.5	<3
95UKHOD02	250	500	6.2	6.15	5	6	344	2	2	<3
95UKHSD01	250	500	5.4	6.23	8	12	354	3.5	5.5	<3
95UKHSP02	250	500	5.5	5.9	6	8	322	2	3	<3
95UKHTD01	250	500	4.73	5.29	553	757	379	3	159	370
95UKHBP02	250	500	6.4	6.83	19	24	451	7	2	5
95UKHLD01*	250	750	6.1	7.1	138	219	324	30	4	23
95UKHWD01	250	500	2.5	2.31	2870	3650	607	0	2740	3213
95UKHSP01	250	500	5.2	5.5	11	17	344	1.5	3	3
95UKHBP07	250	500	6.61	6.5	11	15	333	5.5	3	<3
95UKHHD03	250	500	5.93	7.4	1009	1600	358	9	2	944
95UKHKD02	250	500	6.46	7.1	212	294	334	16	4	102
95UKHBD04	250	750	6.85	7.21	62	107	376	13	1	29
95UKHBP06	250	500	4.39	5.51	214	298	351	3	2	124
95UKHCP01	250	500	5.6	4.57	8	19	467	0.5	7	<3
95UKHOD03	250	500	6.96	7.45	55	112	316	46	3	8
95UKHBD03	250	500	5.56	5.93	1550	2050	425	6	291	1407
95UKHBD02	250	500	6.04	6.95	660	1068	342	11.5	2	570
95UKHOD01	250	500	6.2	7.2	21	47	326	19.5	3	<3
95UKHOP01	250	500	6.15	6.79	12	25	332	12.5	4	<3
95UKHUD01	250	500	6	6	14	16	323	1.5	2.5	4

WASTE ROCK - SHAKE FLASK EXTRACTION TESTS

Element		HDD03	HBP02	HBP05	HBP06	HBP07	HBD02	HBD03	HBD04
Al	mg/L	37.7	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Sb	mg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
As	mg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ba	mg/L	<0.010	<0.010	<0.010	0.019	<0.010	<0.010	0.013	<0.010
Be	mg/L	0.015	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bi	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.12	<0.10
B	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cd	mg/L	0.741	<0.010	<0.010	<0.010	<0.010	0.011	28.8	0.016
Ca	mg/L	338	1.86	1.08	35.8	1.22	132	259	9.37
Cr	mg/L	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Co	mg/L	0.159	<0.015	<0.015	<0.015	<0.015	<0.015	0.057	<0.015
Cu	mg/L	0.796	<0.010	<0.010	0.03	<0.010	0.01	0.051	<0.010
Fe	mg/L	25.8	<0.030	<0.030	0.067	<0.030	<0.030	<0.030	<0.030
Pb	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.374	<0.050
Li	mg/L	0.075	<0.015	<0.015	<0.015	<0.015	<0.015	0.026	<0.015
Mg	mg/L	32.8	0.53	0.277	8.17	0.357	48.4	55.3	4.61
Mn	mg/L	18.6	<0.005	0.422	1.54	0.005	0.018	80.3	0.006
Mo	mg/L	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Ni	mg/L	0.601	<0.020	<0.020	0.041	<0.020	<0.020	0.157	<0.020
P	mg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
K	mg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4.9	<2.0
Se	mg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Si	mg/L	2.27	1.83	0.182	1.19	1.05	0.893	0.518	0.385
Ag	mg/L	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Na	mg/L	<2.0	<2.0	<2.0	<2.0	<2.0	14.7	9.2	<2.0
Sr	mg/L	0.069	0.009	0.004	0.112	<0.001	0.184	0.112	0.016
Tl	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sn	mg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Ti	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
V	mg/L	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Zn	mg/L	52.1	0.008	0.039	0.083	<0.005	0.047	225	0.122

WASTE ROCK | SHAKE FLASK EXTRACTION TESTS

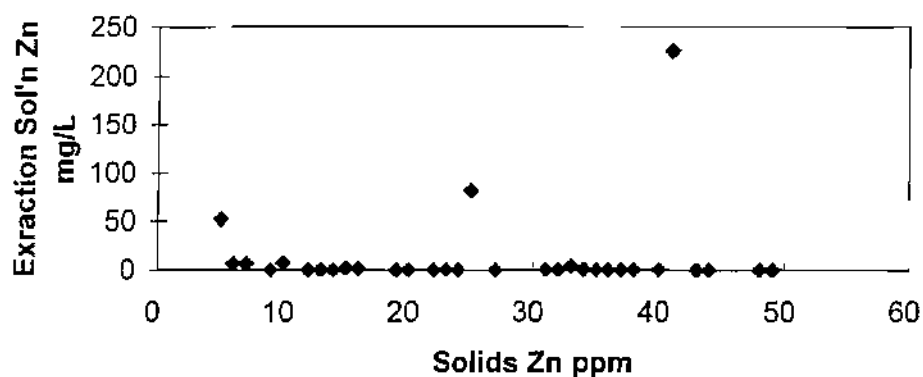
Element		HRD01	HRD02	HCD01	HWD01	HCP01	HCD04	HHD01	HHD02
Al	mg/L	<0.20	<0.20	<0.20	44.2	<0.20	<0.20	42.5	<0.20
Sb	mg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
As	mg/L	<0.20	<0.20	<0.20	3.89	<0.20	<0.20	3.58	<0.20
Ba	mg/L	<0.010	0.015	0.021	<0.010	<0.010	0.031	0.032	0.029
Be	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bi	mg/L	0.13	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
B	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cd	mg/L	<0.010	0.38	<0.010	0.029	<0.010	<0.010	0.017	0.323
Ca	mg/L	384	233	1.65	144	0.252	0.554	18.9	259
Cr	mg/L	<0.015	<0.015	<0.015	0.115	<0.015	<0.015	0.07	<0.015
Co	mg/L	<0.015	<0.015	<0.015	0.173	<0.015	<0.015	0.137	<0.015
Cu	mg/L	0.013	0.04	0.025	0.879	<0.010	<0.010	0.22	<0.010
Fe	mg/L	<0.030	<0.030	<0.030	898	<0.030	<0.030	520	<0.030
Pb	mg/L	<0.050	0.279	8.89	0.265	<0.050	<0.050	0.557	<0.050
Li	mg/L	<0.015	<0.015	<0.015	0.1	<0.015	<0.015	0.081	<0.015
Mg	mg/L	118	24.3	0.3	35.5	0.065	<0.050	11.1	58.8
Mn	mg/L	0.033	2.32	0.1	4.63	0.016	0.03	2.84	1.15
Mo	mg/L	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	0.033	<0.030
Ni	mg/L	<0.020	0.083	<0.020	0.401	<0.020	<0.020	0.456	<0.020
P	mg/L	<0.30	<0.30	<0.30	3.87	<0.30	<0.30	1.41	<0.30
K	mg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Se	mg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Si	mg/L	0.203	0.598	0.677	4.13	0.222	0.161	1.72	0.297
Ag	mg/L	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Na	mg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2
Sr	mg/L	0.4	0.176	0.01	0.193	<0.001	<0.001	0.051	0.333
Tl	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sn	mg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Ti	mg/L	<0.010	<0.010	<0.010	0.021	<0.010	<0.010	<0.010	<0.010
V	mg/L	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	0.06	<0.030
Zn	mg/L	0.047	7.3	0.167	2.45	0.012	0.031	1.25	6.68

WASTE ROCK - SHAKE FLASK EXTRACTION TESTS

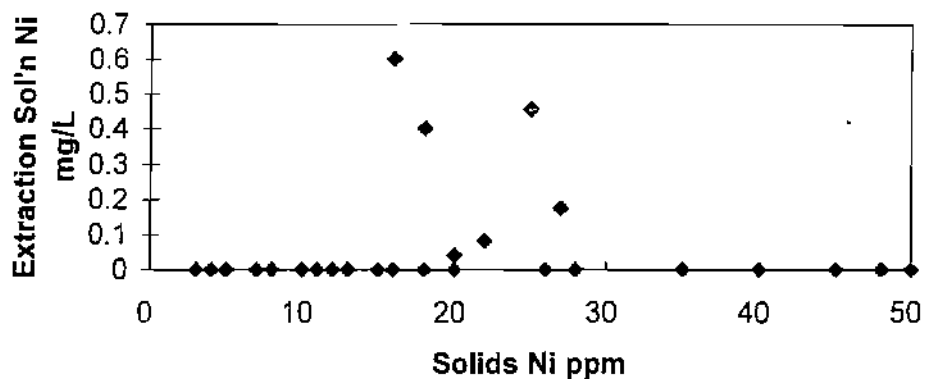
Element		HHD03	HSP01	HSP02	HSP03	HSD01	HOP01	HOD01	HOD02
Al	mg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Sb	mg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
As	mg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ba	mg/L	0.019	0.021	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Be	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bi	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
B	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cd	mg/L	0.178	0.021	<0.010	<0.010	0.064	<0.010	<0.010	<0.010
Ca	mg/L	326	0.792	0.372	0.478	1.12	3.19	7.66	0.346
Cr	mg/L	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Co	mg/L	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Cu	mg/L	<0.010	0.035	<0.010	<0.010	<0.010	<0.010	0.011	<0.010
Fe	mg/L	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Pb	mg/L	<0.050	0.804	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Li	mg/L	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Mg	mg/L	44.7	0.171	0.075	0.073	0.055	0.339	0.399	<0.050
Mn	mg/L	0.498	0.25	0.033	0.025	<0.005	0.033	0.011	0.021
Mo	mg/L	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Ni	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
P	mg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
K	mg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Se	mg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Si	mg/L	0.318	0.434	0.302	0.151	0.222	0.203	1.52	0.11
Ag	mg/L	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Na	mg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Sr	mg/L	0.361	<0.001	<0.001	<0.001	<0.001	0.011	0.02	<0.001
Tl	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sn	mg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Ti	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
V	mg/L	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Zn	mg/L	3.94	0.253	0.013	0.01	0.316	0.243	0.005	0.045

WASTE ROCK - SHAKE FLASK EXTRACTION TESTS							DRAFT	
Element		HOD03	HKD01	HKD02	HUD01	HTD01	HLD01	HVD01
Al	mg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Sb	mg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
As	mg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ba	mg/L	<0.010	0.031	0.033	0.019	0.019	0.014	0.019
Be	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bi	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
B	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cd	mg/L	<0.010	0.217	0.028	<0.010	2.01	<0.010	<0.010
Ca	mg/L	17.5	35.6	38.6	1.21	26.3	21.3	34.5
Cr	mg/L	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Co	mg/L	<0.015	<0.015	<0.015	<0.015	0.1	<0.015	<0.015
Cu	mg/L	<0.010	0.018	0.013	0.033	0.068	<0.010	0.034
Fe	mg/L	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Pb	mg/L	<0.050	0.078	<0.050	0.075	0.384	<0.050	<0.050
Li	mg/L	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Mg	mg/L	1.66	2.16	5.94	0.228	9.37	3.86	12.4
Mn	mg/L	<0.005	0.029	0.05	0.007	100	0.1	0.373
Mo	mg/L	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Ni	mg/L	<0.020	<0.020	<0.020	<0.020	0.176	<0.020	<0.020
P	mg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
K	mg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.4
Se	mg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Si	mg/L	0.416	0.42	0.617	0.411	0.552	0.187	3.14
Ag	mg/L	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Na	mg/L	<2.0	<2.0	<2.0	<2.0	<2.0	10.5	<2.0
Sr	mg/L	0.041	0.056	0.167	<0.001	0.041	0.065	0.104
Tl	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sn	mg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Ti	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
V	mg/L	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Zn	mg/L	<0.005	6.65	0.761	0.041	81.4	0.017	0.013

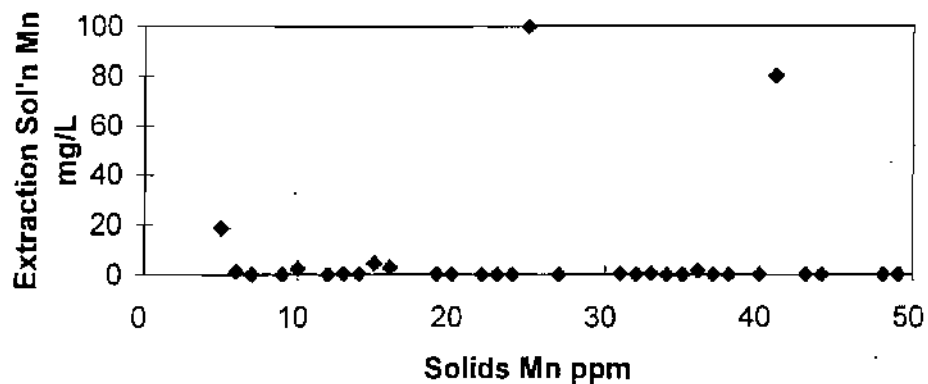
Comparison of Solids and Extractions

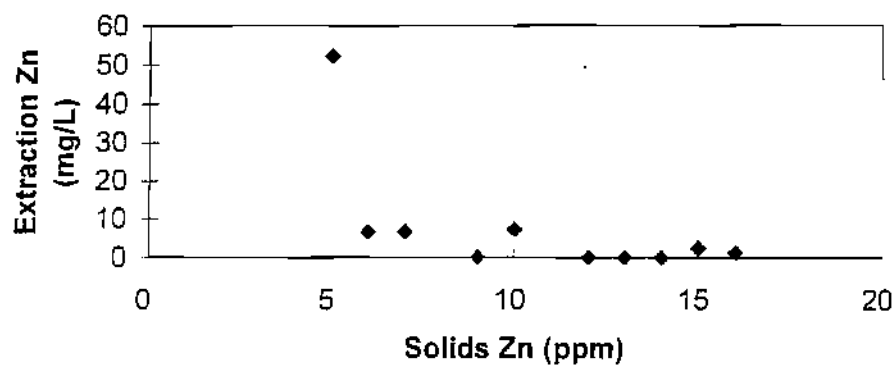


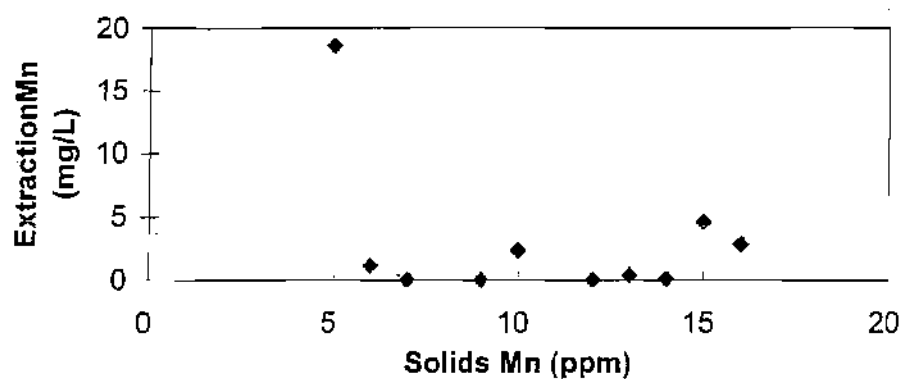
Comparison of Solids and Extractions

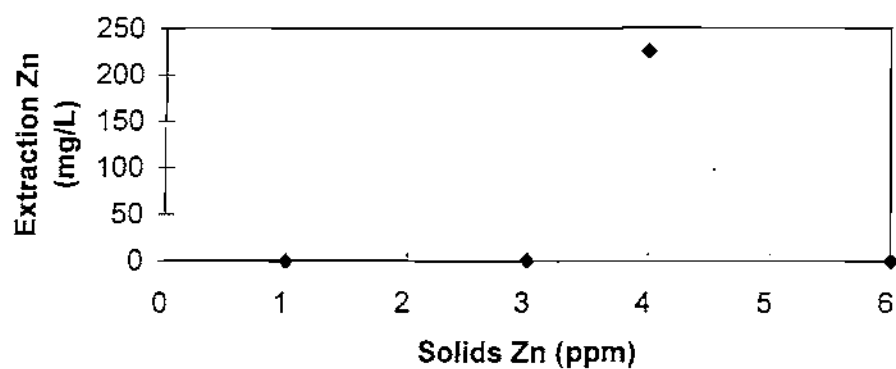
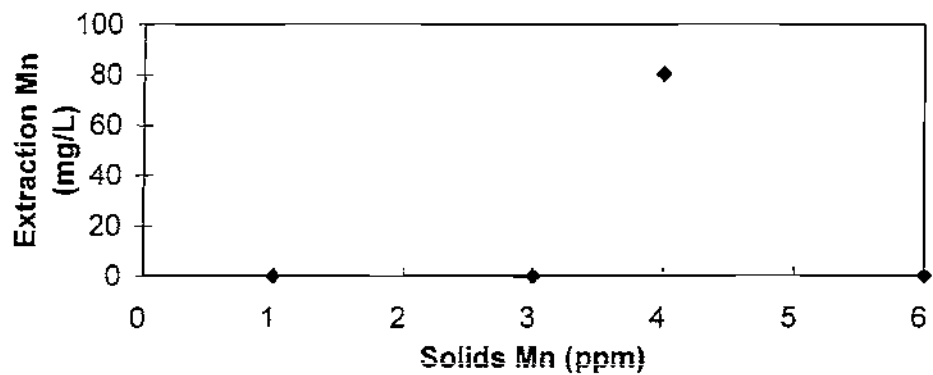


Comparison of Solids and Extractions



Grey Quartzite - Extraction vs Solids

Grey Quartzite - Extraction vs Solids

Vein Material - Extraction vs Solids**Vein Material - Extraction vs Solids**

Appendix IX

Tailing Characterization

ELSA TAILINGS - TEST PITS JULY 1995**TEST PIT NO. UK/TP/01****Location:** Upstream of Dam No. 1, at edge of ponded water, near original ground peninsula

LAYER	DEPTH (cm)	PASTE pH	PASTE TDS	DESCRIPTION	WATER
SURFACE	0				
A	10	6.5	800	medium brown, wet slimes	wet
				no visible oxidation or iron staining	wet
B	20	7.5		medium to dark brown, wet slimes	seeping
				no visible oxidation or iron staining	flowing
C	35	8		dark brown, wet slimes, no staining	flowing
D	50	8		as C	flowing
E	75	8.8		as C	flowing
F	100	8.8	190	as C	flowing
G		8.4	170	as C - stopped as hole collapsing	flowing

TEST PIT NO. UK/TP/02**Location:** on "island" in pond upstream of Dam No. 2, just below old treatment plant (decant)

LAYER	DEPTH (cm)	PASTE pH	PASTE TDS	DESCRIPTION	WATER
SURFACE	0				
A	10	8	260	sandy, med. to light brown	moist
B	35	7.6	440	sandy, med. to light brown	moist
C	50	7.8	480	sandy, med. to light brown	seeping
D	80	7.8	260	sandy, med. to light brown	seeping
E	90	9.5	340	sandy, med. to light brown	flowing
				but can see fine chunks of lime(?)	
				stopped as hole collapsing	

TEST PIT NO. UK/TP/03**Location:** in tailings along road at power pole by 2 pipes from Husky Shaft

LAYER	DEPTH (cm)	PASTE pH	PASTE TDS	DESCRIPTION	WATER
SURFACE	0				
A	10	5.8	>2000	brown moist sand	
B	15	6.1	>2000	med. orange brown moist sand	
C	32	6.1	>2000	med. brown orange moist silt	
D	38	5.1	>2000	orange sand, dry to moist	
E	41	5.2	1500	med. brown orange moist silt	
F	83	5.2	>2000	med. brown orange moist silt	
NOTE:	32 to end of hole is alternating layers of C and D				
	F? is a composite of the alternating fine sand and the silt layers which are less orange				

ELSA TAILINGS - TEST PITS JULY 1995**TEST PIT NO. UK/TP/04****Location:** along channel in old tailings near Diversion

LAYER	DEPTH (cm)	PASTE pH	PASTE TDS	DESCRIPTION	WATER
SURFACE	0				
A	20			dark brown moist silty sand some iron stained blebs	moist
B	50			layered light brown sand with iron stained sand in <2 cm layers	moist
C	90			layered fine orange sands with brown- orange silt layers of 2 to 6 cm thickness	moist

TEST PIT NO. UK/TP/05**Location:** along channel in old tailings near Diversion, further south from previous two test pits

LAYER	DEPTH (cm)	PASTE pH	PASTE TDS	DESCRIPTION	WATER
SURFACE	0			med. to dark brown soil-like sands	
A	20	7.8		med. to dark brown soil-like sands	moist
B	75			dark orange-brown sands, moist, loose - i.e. not compacted like other lenses	moist
C	120	5.8	>2000	mixed grey silt with orange sand layers - compacted	moist
D	150	6.2	270	wet, light grey fine silty sand hole collapsing	seeping
seep		6.9	700	seep at toe of bank at depth of D	flowing

TEST PIT NO. UK/TP/06**Location:** downslope from previous test pits, near pole across from chemical storage

LAYER	DEPTH (cm)	PASTE pH	PASTE TDS	DESCRIPTION	WATER
SURFACE	0			med. to dark brown soil-like sands	
A	37	6.1	1600	med. to dark brown soil-like sands	dry
B	75	6.1	900	light brown/orange coarse slightly moist sands - like a hardpan	damp
C	87	8	0	fine light grey wet sand	wet

? are these upper tailings like a soil because of weathering and leaching or because of erosion and transport of soil like material overlying the tailings

ELSA TAILINGS - TEST PITS JULY 1995**TEST PIT NO. UK/TP/07-1 (No samples collected).**

Location: in old dozed test pit, on north side of road, downstream to trees
did two pits here, on in excavation (#1) and one at edge (#2)

LAYER	DEPTH (cm)	PASTE pH	PASTE TDS	DESCRIPTION	WATER
SURFACE	0			hardpan - orange, fine, compacted	
A	30			hardpan - orange, fine, compacted	
B	50			grey/brown sands	
C	EOH			hardpan - can't dig through	

TEST PIT NO. UK/TP/07-2

Location: in old dozed test pit, on north side of road, downstream to trees
did two pits here, on in excavation and one at edge

LAYER	DEPTH (cm)	PASTE pH	PASTE TDS	DESCRIPTION	WATER
SURFACE	0				
A	20			moist grey sands with some Fe stained bands, less than .5 cm thick	damp
B	50			same as A, Fe bands 1 to 2 cm thick	damp
C	75			hardpan	damp

TEST PIT NO. UK/TP/08

Location: upper part of Pond 1 - old tailings area below garbage dump and bunkhouse
in old metallurgical bulk sample test pit location

LAYER	DEPTH (cm)	PASTE pH	PASTE TDS	DESCRIPTION	WATER
SURFACE	0			light brown grey sands, eroded by wind, water	
A	23	7.1	700	fine, light brown-grey, wind-blown	dry
B	76	5.5	1480	hardpan	dry
C	86	6.1	560	fine, moist, grey sand	moist
D	150	5.2	1460	hardpan with some fine sands (25%)	damp

Then walked along channel cut by water flow (1 to 1.5 m depth) - cam water/sewage channel.
No hardpan evident even at depth in embankment to the north(east).

ELSA TAILINGS - TEST PITS JULY 1995**TEST PIT NO. UK/TP/10****Location:** downstream adjacent to sewage channel, but closer to trees of original ground

LAYER	DEPTH (cm)	PASTE pH	PASTE TDS	DESCRIPTION	WATER
SURFACE	0				
A	100			dark brown sands - similar to surface and upper layers of other test pits	damp

TEST PIT NO. UK/TP/11**Location:** downstream adjacent to sewage channel, but moving closer to road and trees

LAYER	DEPTH (cm)	PASTE pH	PASTE TDS	DESCRIPTION	WATER
SURFACE	0			dark brown sands - similar to surface and upper layers of other test pits	
A	50				
B	100	6.6	310	orange-brown sands, hard to dig but not as cemented as "hardpan" layers	

TAILINGS		HEAD ICP ANALYSES						DRAFT
ELEMENT		UK/TP/01-A	UK/TP/01-B	UK/TP/01-C	UK/TP/01-D	UK/TP/01-E	UK/TP/01-F	UK/TP/01-G
Ag	ppm	169.6	107.7	160.6	192.2	177	110.9	125.8
Al	%	0.5	0.19	0.31	0.38	0.34	0.27	0.29
As	ppm	1	1	1	1	1	1	1
Ba	ppm	154	150	155	219	189	243	216
Be	ppm	3	2.3	3.1	3.2	3	2.8	2.8
Bi	ppm	24	28	40	33	32	30	30
Ca	%	0.57	0.76	0.99	0.93	0.89	1.29	1.55
Cd	ppm	88.2	>100.0	>100.0	>100.0	>100.0	>100.0	>100.0
Co	ppm	16	13	20	18	17	15	16
Cr	ppm	1	1	1	1	1	1	1
Cu	ppm	658	193	318	306	292	242	326
Fe	%	10.78	9.33	>15.00	13.17	12.42	10.85	11.92
Ga	ppm	1	1	1	1	1	1	1
K	%	0.1	0.05	0.08	0.07	0.06	0.06	0.07
Li	ppm	4	1	2	3	3	2	2
Mg	%	0.2	0.18	0.17	0.21	0.2	0.28	0.24
Mn	ppm	>10000	>10000	>10000	>10000	>10000	>10000	>10000
Mo	ppm	3	4	4	5	6	5	5
Na	%	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Ni	ppm	78	119	178	141	137	128	129
P	ppm	740	510	840	820	750	660	740
Pb	ppm	9518	>10000	>10000	>10000	>10000	>10000	>10000
Sb	ppm	557	460	827	876	824	572	659
Sn	ppm	10	7	15	11	10	10	10
Sr	ppm	1	1	1	1	1	1	1
Th	ppm	1	1	1	1	1	1	1
Ti	%	0.01	0.01	0.01	0.01	0.01	0.01	0.01
U	ppm	1	1	1	1	1	1	1
V	ppm	22.8	16.9	27.5	25.8	24.4	20.8	22.6
W	ppm	6	9	12	11	11	10	11
Zn	ppm	5161	4676	8224	7367	6558	6336	7046

TAILINGS		HEAD ICP ANALYSES					DRAFT	
ELEMENT		UK/TP/02-A	UK/TP/02-B	UK/TP/02-C	UK/TP/02-D	UK/TP/02-E	UK/TP/03-A	UK/TP/03-B
Ag	ppm	100.4	53.4	49.5	75.7	57.2	97	75.7
Al	%	0.24	0.13	0.14	0.17	0.21	0.12	0.15
As	ppm	1	1	1	1	1	1	1
Ba	ppm	249	291	258	312	179	46	41
Be	ppm	1.9	1.4	1.4	1.8	1.4	3.5	2.7
Bi	ppm	20	17	16	19	17	40	31
Ca	%	2.33	0.71	0.83	0.94	7.51	0.6	0.77
Cd	ppm	95.5	40.2	48.3	55	>100.0	>100.0	40.9
Co	ppm	15	10	9	11	29	20	16
Cr	ppm	1	1	1	1	1	1	1
Cu	ppm	259	119	122	158	460	200	187
Fe	%	7.16	5.55	5.54	6.64	4.65	>15.00	10.93
Ga	ppm	1	1	1	1	1	1	1
K	%	0.06	0.05	0.05	0.05	0.05	0.04	0.05
Li	ppm	2	1	1	1	2	1	1
Mg	%	0.46	0.21	0.2	0.22	3.47	0.41	0.36
Mn	ppm	>10000	>10000	>10000	>10000	>10000	>10000	>10000
Mo	ppm	5	4	3	5	3	5	4
Na	%	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Ni	ppm	93	66	64	76	151	179	132
P	ppm	530	290	330	390	390	360	350
Pb	ppm	>10000	5159	6104	8444	5656	7162	7634
Sb	ppm	351	141	179	248	166	234	217
Sn	ppm	7	4	5	5	6	12	9
Sr	ppm	1	1	1	1	73	1	1
Th	ppm	1	1	1	1	1	1	1
Ti	%	0.01	0.01	0.01	0.01	0.01	0.01	0.01
U	ppm	1	1	1	1	1	1	1
V	ppm	16.1	11	10.9	13.3	19.4	23.1	17.6
W	ppm	9	7	6	8	12	16	11
Zn	ppm	5325	2929	2947	3660	8193	9826	5276

TAILINGS		HEAD ICP ANALYSES					DRAFT	
ELEMENT		UK/TP/03-C	UK/TP/08-D	UK/TP/10-A	UK/TP/11-A	UK/TP/11-B	UK/GJ/01	UK/TE/09
Ag	ppm	118.2	10.1	122	60.6	111.1	96.6	>200.0
Al	%	0.34	0.15	0.16	0.17	0.11	0.21	0.15
As	ppm	1	1	1	1	1	1	1
Ba	ppm	67	347	79	256	142	122	51
Be	ppm	2.9	2.1	1.8	1.8	2.8	1.8	2.6
Bi	ppm	28	27	15	18	35	20	28
Ca	%	1.49	0.89	0.39	0.75	0.76	0.44	0.4
Cd	ppm	>100.0	68.8	59.7	56.2	>100.0	61.4	>100.0
Co	ppm	16	12	11	11	21	10	16
Cr	ppm	1	1	1	1	1	1	1
Cu	ppm	308	75	371	131	184	254	714
Fe	%	11	9.42	7.41	7.6	14.02	7.48	12.19
Ga	ppm	1	1	1	1	1	1	1
K	%	0.1	0.06	0.05	0.07	0.05	0.06	0.05
Li	ppm	1	1	1	1	1	1	1
Mg	%	0.33	0.42	0.14	0.24	0.49	0.15	0.12
Mn	ppm	>10000	>10000	>10000	>10000	>10000	>10000	>10000
Mo	ppm	5	3	2	4	4	4	3
Na	%	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Ni	ppm	114	114	64	80	148	82	110
P	ppm	560	320	300	370	290	410	290
Pb	ppm	>10000	1991	6435	3947	5383	7433	>10000
Sb	ppm	442	78	193	138	180	274	280
Sn	ppm	10	8	6	7	12	5	11
Sr	ppm	1	1	1	1	1	1	1
Th	ppm	1	1	1	1	1	1	1
Ti	%	0.01	0.01	0.01	0.01	0.01	0.01	0.01
U	ppm	1	1	1	1	1	1	1
V	ppm	19.5	15.4	12.2	13.6	19.8	14.1	17
W	ppm	20	9	7	8	18	6	11
Zn	ppm	>10000	5387	4144	4782	>10000	2791	7438

ELSA TAILINGS - TEST PITS JULY 1995**TEST PIT NO. UK/TP/01**

Location: Upstream of Dam No. 1, at edge of ponded water, near original ground peninsula

LAYER	DEPTH	Paste pH	TDS	Paste pH	S(T)	S(SO4)	AP	NP	Net NP	NP/AP
	(cm)	field	field	lab	%	%				
Surface	0									
A	10	6.5	800	7.17	0.36	0	11.25	11	-0.25	1.0
B	20	7.5	300	7.57	0.39	0.00	12.2	13.8	1.6	1.1
C	35	8	800	7.49	0.52	0.52	0.0	8.3	8.3	<0.1
D	50	8	700							
E	75	8.8	700							
F	100	8.8	190							
G		8.4	170	7.79	0.70	0.36	10.6	25.8	15.1	2.4

TEST PIT NO. UK/TP/02

Location: on "island" in pond upstream of Dam No. 2, just below old treatment plant (decant)

LAYER	DEPTH	PASTE pH	TDS	Paste pH	S(T)	S(SO4)	AP	NP	Net NP	NP/AP
	(cm)	field	field	lab	%	%				
Surface	0									
A	10	8	260	8.18	1.35	0.30	32.8	56.3	23.4	1.7
B	35	7.6	440	7.78	1.27	0.14	35.3	22.5	-12.8	0.6
C	50	7.8	480							
D	80	7.8	260							
E	90	9.5	340	9.18	1.48	0.94	16.9	326.9	310.0	19.4

TEST PIT NO. UK/TP/03

Location: in tailings along road at power pole by 2 pipes from Husky Shaft

LAYER	DEPTH	PASTE pH	TDS	Paste pH	S(T)	S(SO4)	AP	NP	Net NP	NP/AP
	(cm)	field	field	lab	%	%				
Surface	0									
A	10	5.8	>2000	6.16	4.27	0.53	116.9	32.1	-84.8	0.3
B	15	6.1	>2000	6.40	2.57	0.53	63.8	23.1	-40.6	0.4
C	32	6.1	>2000	5.93	2.93	1.71	38.1	95.0	56.9	2.5
D	38	5.1	>2000	5.79	1.94	0.92	31.9	21.5	-10.4	0.7
E	41	5.2	1500	5.68	1.88	0.76	35.0	14.1	-20.9	0.4
F	83	5.2	>2000							
NOTE:	32 to end of hole is alternating layers of C and D									
	F is a composite of the alternating fine sand and the silt layers which are less orange									

ELSA TAILINGS - TEST PITS JULY 1995**TEST PIT NO. UK/TP/04**

Location: along channel in old tailings near Diversion

LAYER	DEPTH (cm)	PASTE pH field	TDS field	Paste pH lab	S(T) %	S(SO4) %	AP	NP	Net NP	NP/AP
Surface	0									
A	20		>2000	5.90	2.95	0.99	61.3	6.6	-54.6	0.1
B	50		>2000	6.25	3.99	0.58	106.6	18.4	-88.2	0.2
C	90		>2000	5.72	3.82	0.59	100.9	46.0	-54.9	0.5

TEST PIT NO. UK/TP/05

Location: along channel in old tailings near Diversion, further south from previous two test pits

LAYER	DEPTH (cm)	PASTE pH field	TDS field	Paste pH lab	S(T) %	S(SO4) %	AP	NP	Net NP	NP/AP
Surface	0									
A	20	7.8	>2000	4.49	3.72	1.85	58.4	7.6	-50.8	0.1
B	75		1100	5.06	3.93	0.45	108.8	11.4	-97.4	0.1
C	120	5.8	>2000	4.74	3.88	0.48	106.3	13.6	-92.6	0.1
D	150	6.2	270	7.01	0.61	0.22	12.2	35.9	23.8	2.9
seep		6.9	700							

TEST PIT NO. UK/TP/06

Location: downslope from previous test pits, near pole across from chemical storage

LAYER	DEPTH (cm)	PASTE pH field	TDS field	Paste pH lab	S(T) %	S(SO4) %	AP	NP	Net NP	NP/AP
Surface	0									
A	37	6.1	1600							
B	75	6.1	900	5.99	4.66	0.44	131.9	98.3	-33.6	0.7
C	87	8	0	6.93	3.17	0.36	87.8	28.8	-59.1	0.3

TEST PIT NO. UK/TP/07-2

Location: in old dozed test pit, on north side of road, downstream to trees

LAYER	DEPTH (cm)	PASTE pH field	TDS field	Paste pH lab	S(T) %	S(SO4) %	AP	NP	Net NP	NP/AP
Surface	0									
A	20		>2000	5.96	1.65	0.82	25.9	16.5	-9.4	0.6
B	50		>2000	5.76	1.70	0.94	23.8	7.3	-16.5	0.3
C	75		>2000	5.66	2.70	0.52	68.1	51.3	-16.9	0.8

ELSA TAILINGS - TEST PITS JULY 1995**TEST PIT NO. UK/TP/08**

Location: upper part of Pond 1 - old tailings area below garbage dump and bunkhouse
in old metallurgical bulk sample test pit location

LAYER	DEPTH	PASTE pH	TDS	Paste pH	S(T)	S(SO ₄)	AP	NP	Net NP	NP/AP
	(cm)	field	field	lab	%	%				
Surface	0									
A	23	7.1	700	6.84	1.05	0.27	24.4	17.3	-7.1	0.7
B	76	5.5	1480	5.87	2.16	0.67	46.6	16.0	-30.6	0.3
C	86	6.1	560	5.72	2.61	0.71	59.4	56.5	-2.9	1.0
D	150	5.2	1460							

TEST PIT NO. UK/TP/10

Location: downstream adjacent to sewage channel, but closer to trees of original ground

LAYER	DEPTH	PASTE pH	TDS	Paste pH	S(T)	S(SO ₄)	AP	NP	Net NP	NP/AP
	(cm)	field	field	lab	%	%				
Surface	0									
A	100		600							

TEST PIT NO. UK/TP/11

Location: downstream adjacent to sewage channel, but moving closer to road and trees

LAYER	DEPTH	PASTE pH	TDS	Paste pH	S(T)	S(SO ₄)	AP	NP	Net NP	NP/AP
	(cm)	field	field	lab	%	%				
Surface	0									
A	50		1100	6.80	2.23	0.39	57.5	13.4	-44.1	0.2
B	100	6.6	310	6.81	5.25	0.26	155.9	104.8	-51.2	0.7

ELSA TAILINGS - TEST PITS JULY 1995

	DEPTH (cm)	Paste pH field	TDS field	S(T) %	S(SO ₄) %	AP	NP	Net NP	NP/AP
TEST PIT NO. UK/TP/01	10	6.5	800	0.36	0	11.25	11	-0.25	1.0
	20	7.5	300	0.39	0.00	12.2	13.8	1.6	1.1
	35	8	800	0.52	0.52	0.0	8.3	8.3	<0.1
	50	8	700	0.52	0.52	0.0	8.3	8.3	<0.1
	75	8.8	700	0.52	0.52	0.0	8.3	8.3	<0.1
	100	8.8	190	0.52	0.52	0.0	8.3	8.3	<0.1
	200	8.4	170	0.70	0.36	10.6	25.8	15.1	2.4
weighted									
average									
median									
count									

TEST PIT NO. UK/TP/02	10	8	260	1.35	0.30	32.8	56.3	23.4	1.7
	35	7.6	440	1.27	0.14	35.3	22.5	-12.8	0.6
	50	7.8	480	1.27	0.14	35.3	22.5	-12.8	0.6
	80	7.8	260	1.35	0.30	32.8	56.3	23.4	1.7
	90	9.5	340	1.48	0.94	16.9	326.9	310.0	19.4
weighted									
average									
median									
count									

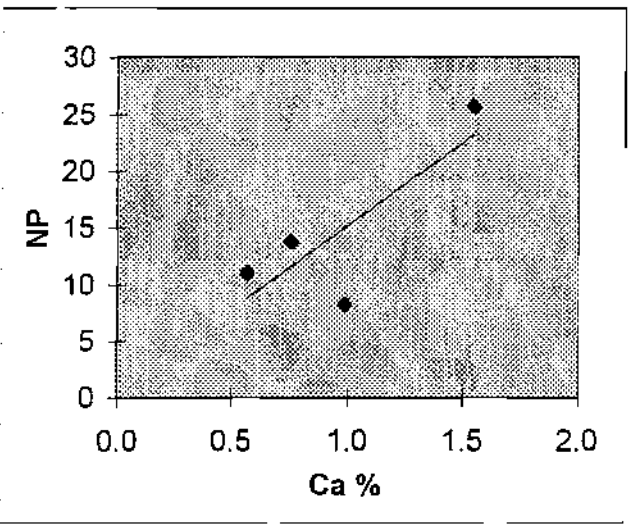
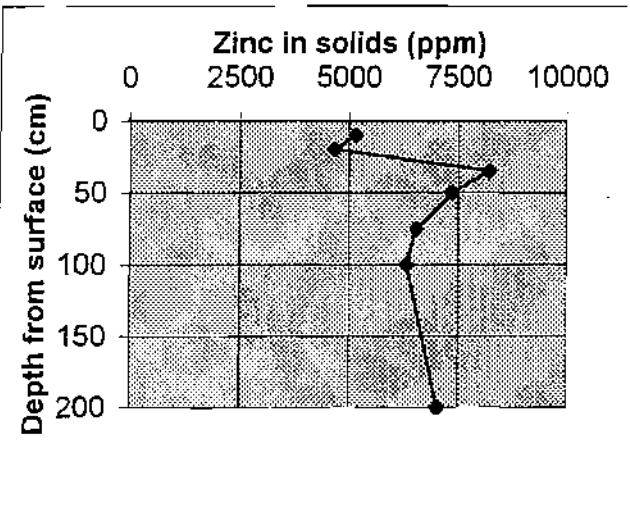
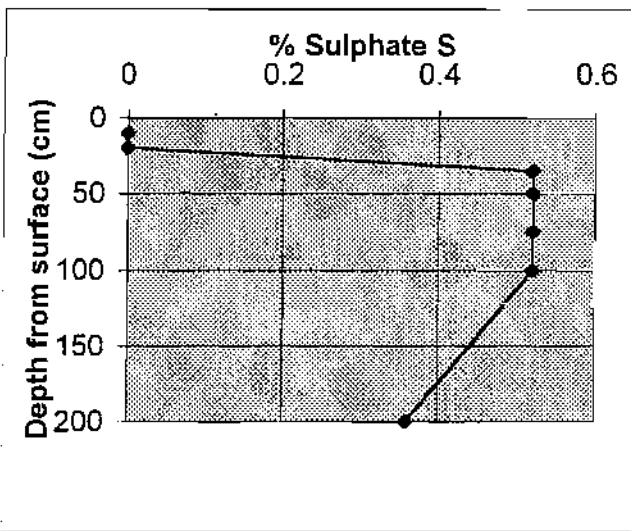
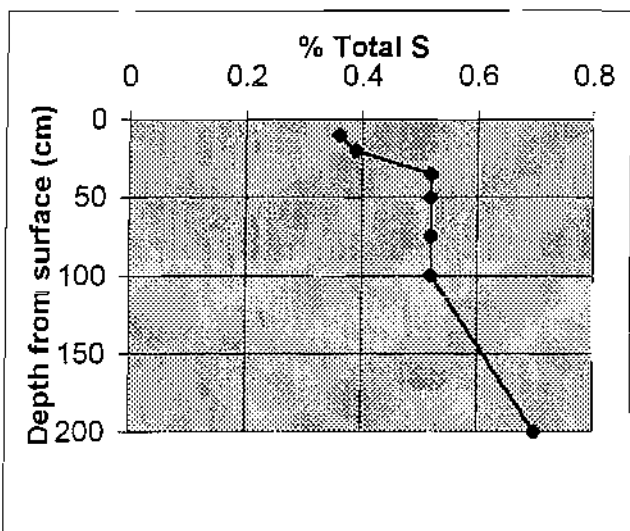
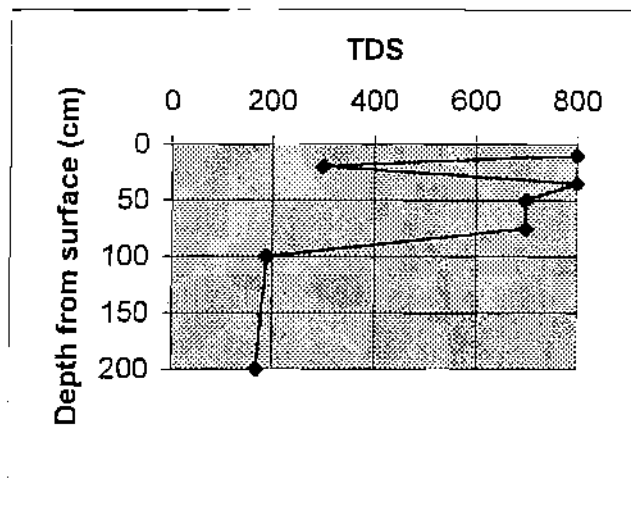
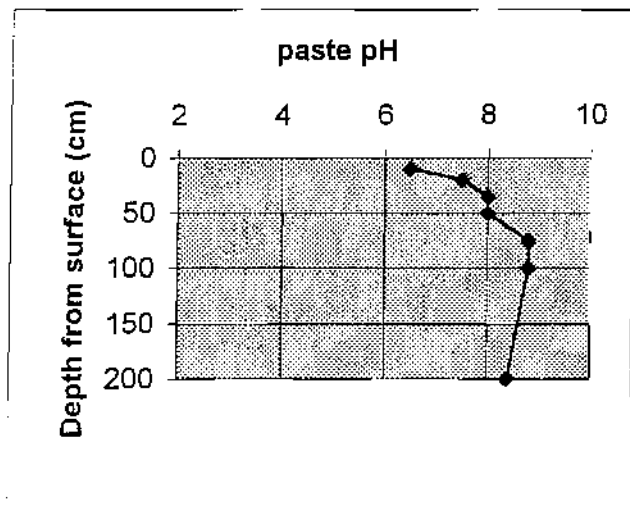
ELSA TAILINGS - TEST PITS JULY 1995

	DEPTH (cm)	Paste pH field	TDS field	S(T) %	S(SO4) %	AP	NP	Net NP	NP/AP
TEST PIT NO. UK/TP/03	10	5.8	>2000	4.27	0.53	116.9	32.1	-84.8	0.3
	15	6.1	>2000	2.57	0.53	63.8	23.1	-40.6	0.4
	32	6.1	>2000	2.93	1.71	38.1	95.0	56.9	2.5
	38	5.1	>2000	1.94	0.92	31.9	21.5	-10.4	0.7
	41	5.2	1500	1.88	0.76	35.0	14.1	-20.9	0.4
TEST PIT NO. UK/TP/04	20		>2000	2.95	0.99	61.3	6.6	-54.6	0.1
	50		>2000	3.99	0.58	106.6	18.4	-88.2	0.2
	90		>2000	3.82	0.59	100.9	46.0	-54.9	0.5
TEST PIT NO. UK/TP/05	20	7.8	>2000	3.72	1.85	58.4	7.6	-50.8	0.1
	75		1100	3.93	0.45	108.8	11.4	-97.4	0.1
	120	5.8	>2000	3.88	0.48	106.3	13.6	-92.6	0.1
	150	6.2	270	0.61	0.22	12.2	35.9	23.8	2.9
TEST PIT NO. UK/TP/06	37	6.1	1600	4.66	0.44				
	75	6.1	900	4.66	0.44	131.9	98.3	-33.6	0.7
	87	8	0	3.17	0.36	87.8	28.8	-59.1	0.3
weighted									
average				3.60	0.63	79.5	30.69		
median				3.72	0.53	75.8	22.31		
max				4.66	1.85	131.9	98.25		
min				0.61	0.22	12.2	6.63		
count				15	15	14	14		

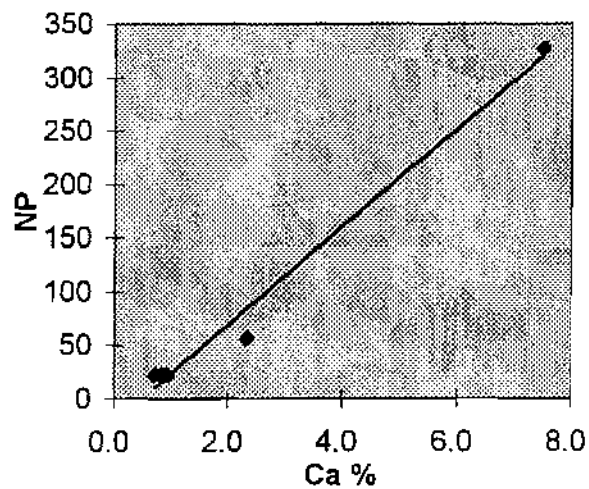
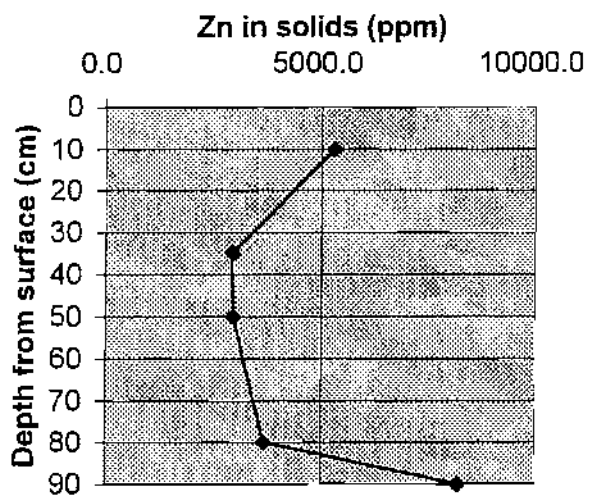
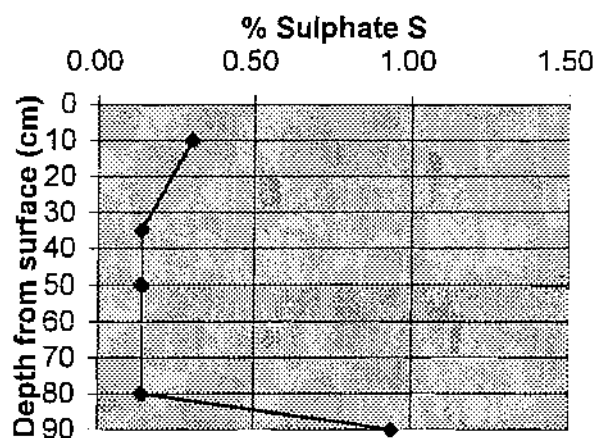
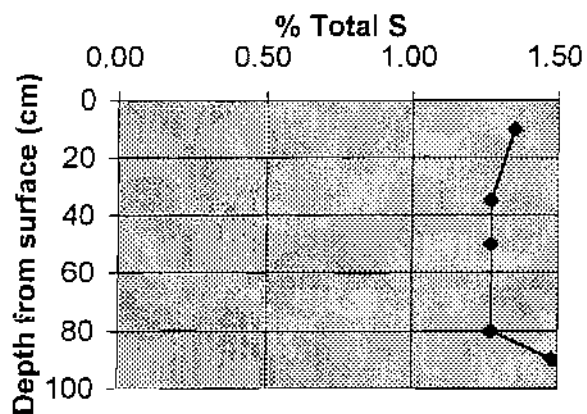
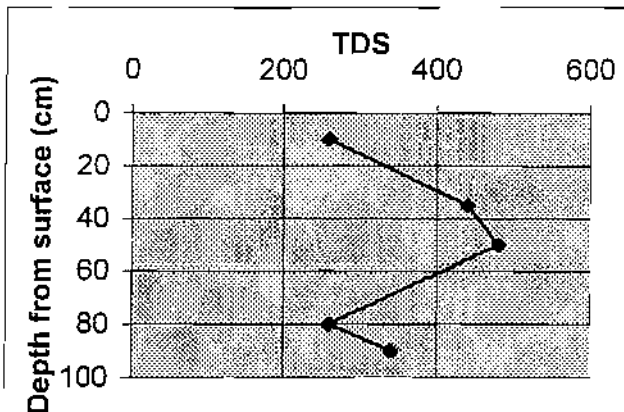
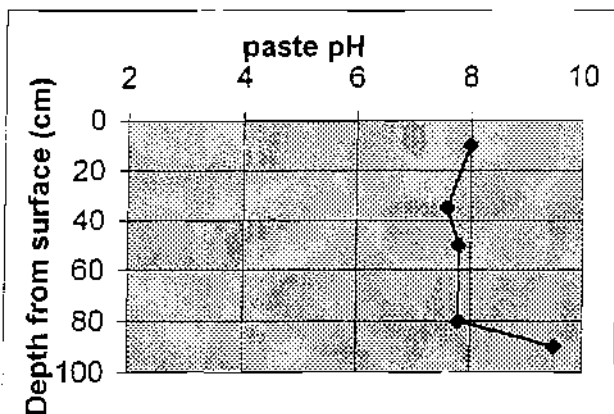
ELSA TAILINGS - TEST PITS JULY 1995

	DEPTH (cm)	Paste pH field	TDS field	S(T) %	S(SO4) %	AP	NP	Net NP	NP/AP
TEST PIT NO. UK/TP/07-2	20		>2000	1.65	0.82	25.9	16.5	-9.4	0.6
	50		>2000	1.70	0.94	23.8	7.3	-16.5	0.3
	75		>2000	2.70	0.52	68.1	51.3	-16.9	0.8
TEST PIT NO. UK/TP/08	23	7.1	700	1.05	0.27	24.4	17.3	-7.1	0.7
	76	5.5	1480	2.16	0.67	46.6	16.0	-30.6	0.3
	86	6.1	560	2.61	0.71	59.4	56.5	-2.9	1.0
	150	5.2	1460	2.61	0.71	59.4	56.5	-2.9	1.0
TEST PIT NO. UK/TP/11	50		1100	2.23	0.39	57.5	13.4	-44.1	0.2
	100	6.6	310	5.25	0.26	155.9	104.8	-51.2	0.7
weighted									
average				3.45	0.61	88.69	56.61		
median				2.2	0.7	57.5	17.3		
max				5.3	0.9	155.9	104.8		
min				1.1	0.3	23.8	7.3		
count				9	9	9	9		

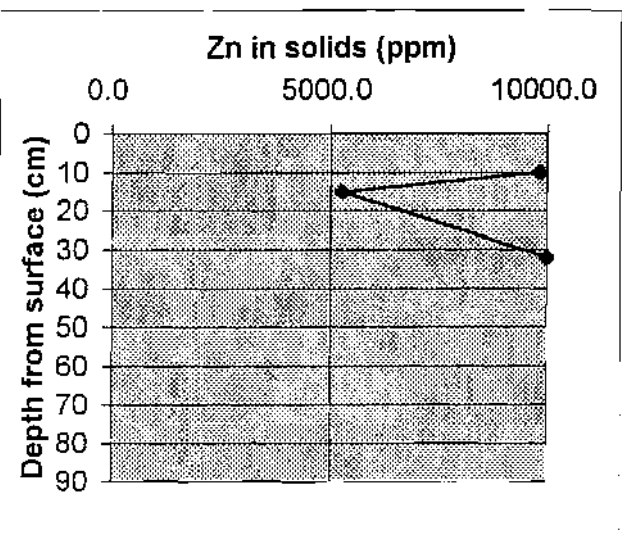
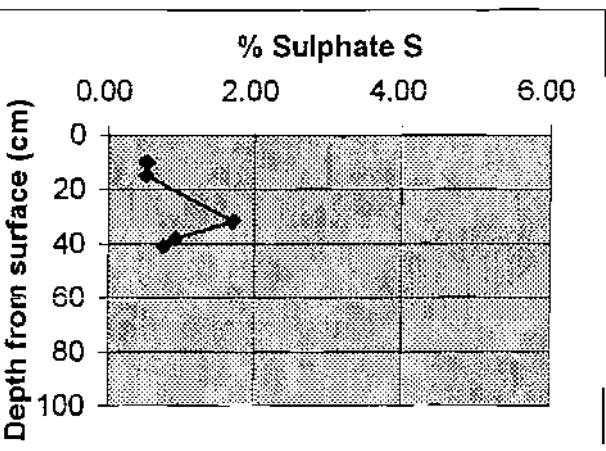
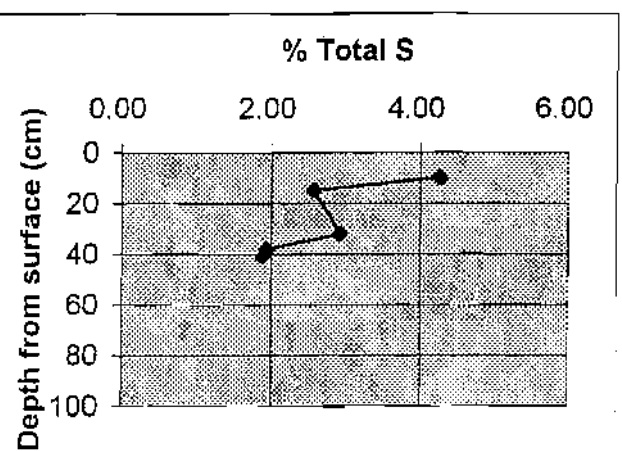
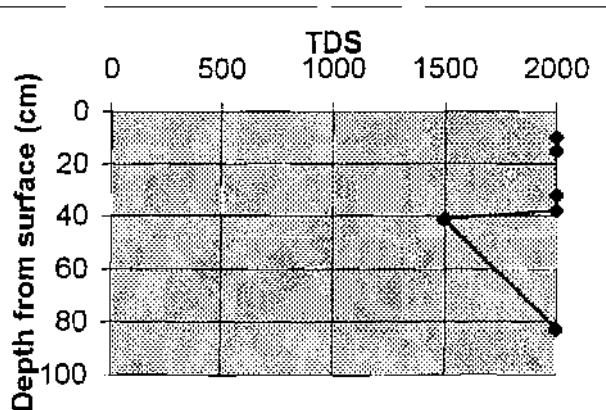
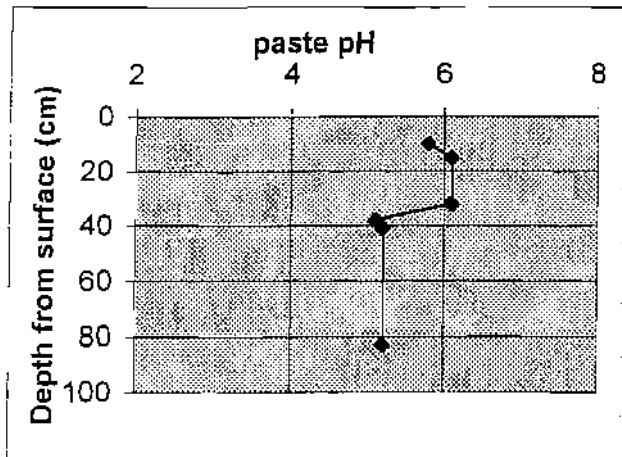
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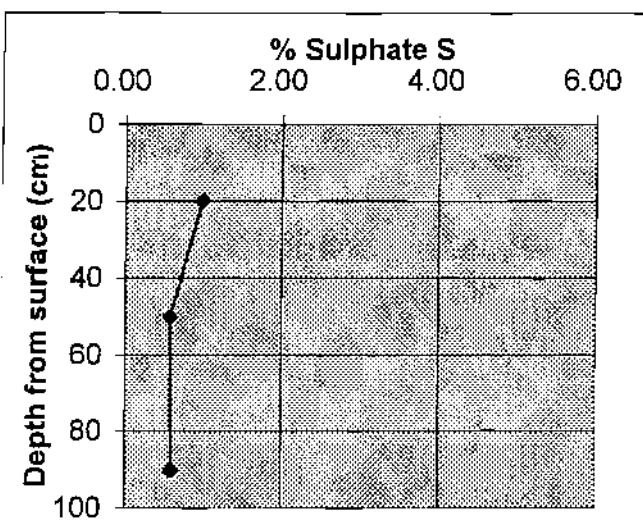
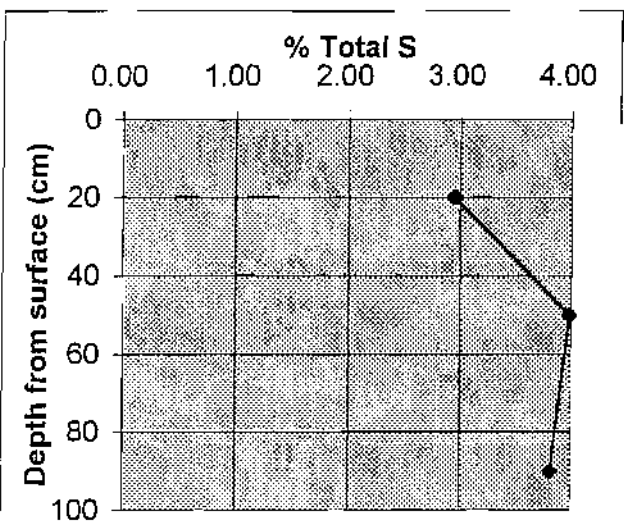
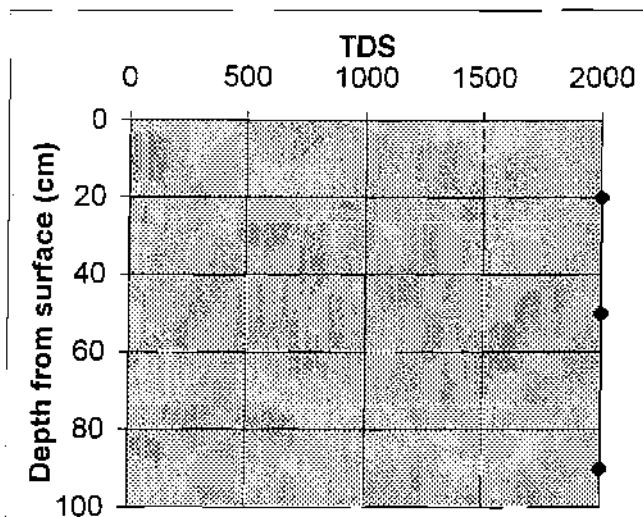
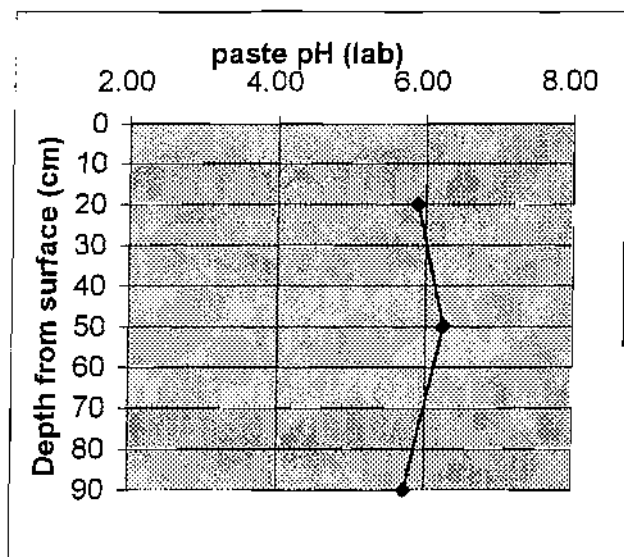
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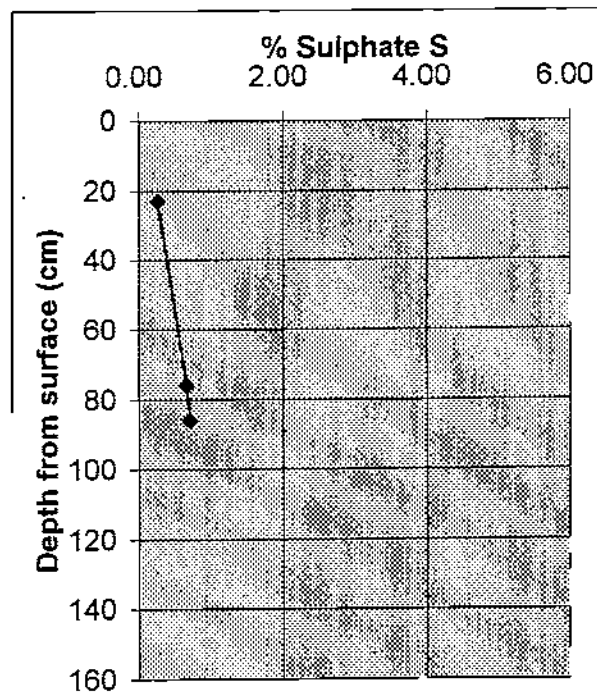
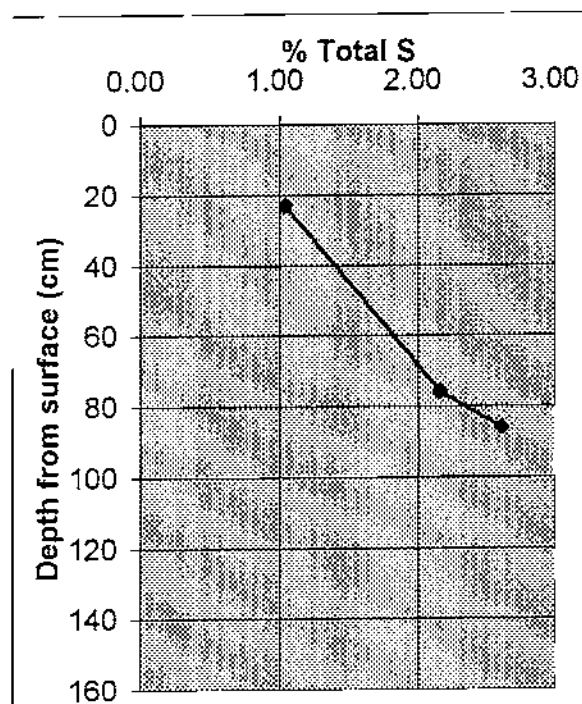
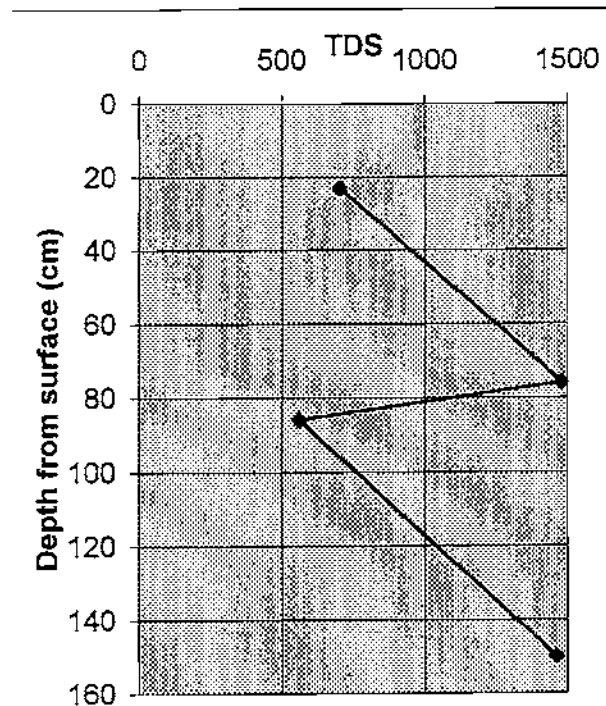
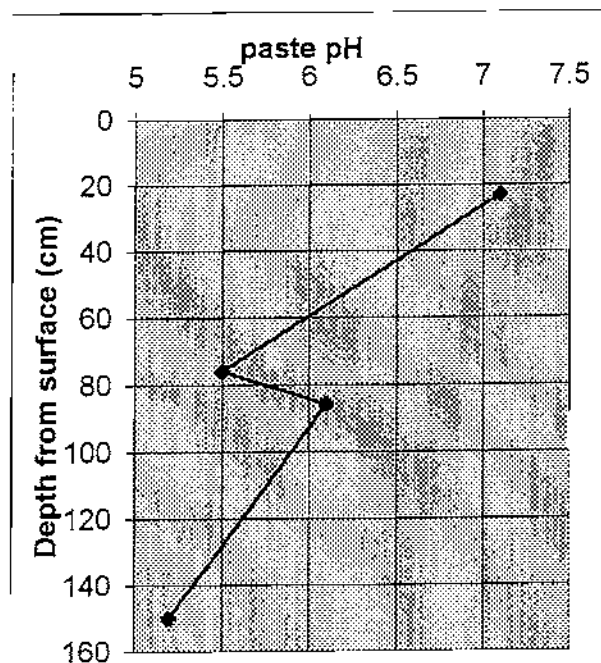
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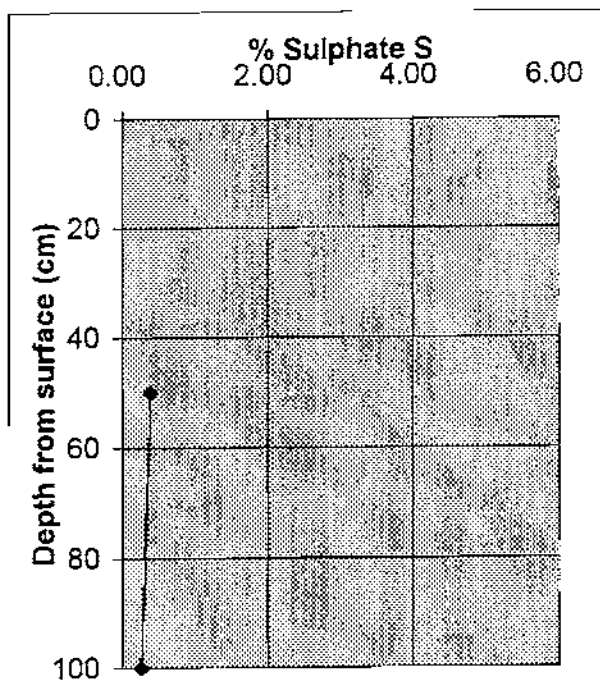
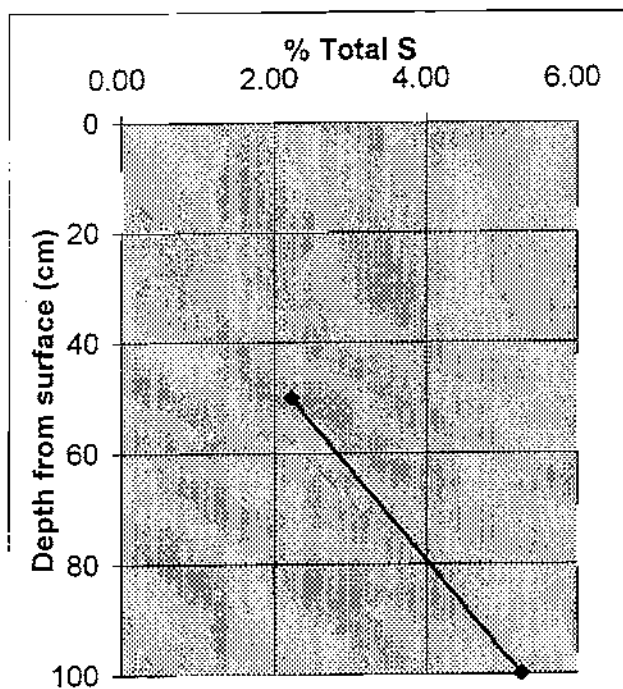
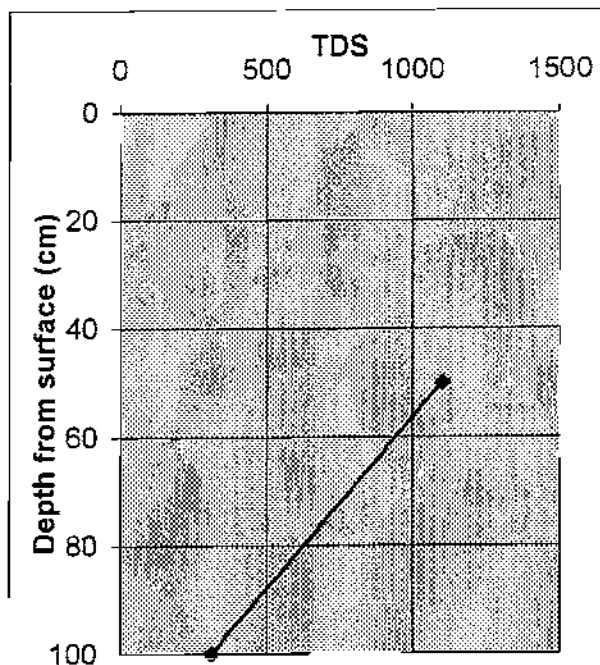
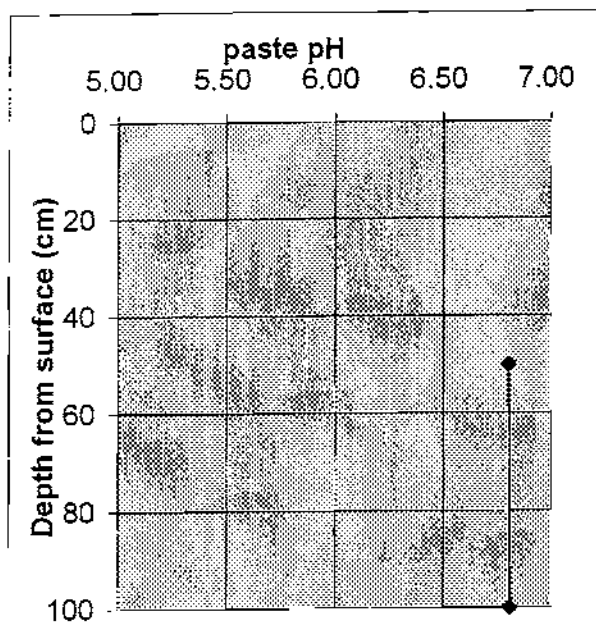
TEST PIT 95UK/TP/04



TEST PIT 95UK/TP/08



TEST PIT 95UK/TP/11



Appendix X

Water Balance and Contaminant Loading Calculations

APPENDIX X-1
WATER QUALITY MODEL -
BEFORE TREATMENT

Preliminary Information

United Keno Hill Mines Ltd.

Water Quality Model - Before Treatment

Details of minesite catchments:

Catchment Description	Catchment Area (km ²)	Catchment Median Elevation (m.a.s.l.)	MAR - Mean Annual Runoff (mm)
Christal Creek above Station S18	7.7	990	240
Christal Creek between Stations S19 and S18	35.8	970	230
Sandy Creek above LES-63	2.3	1180	290
No Cash Creek above LES-21	1.5	1200	300
South McQuesten River above S10 and below LES-1, S19, LES-21, and LES-63	32.9	650	150
South McQuesten River above LES-1	476	940	230
Catchment of Dam No. 3 of Elsa Tailings Impoundment	4.3	760	180
Porcupine Creek Diversion Channel above LES-47	10.1	1110	270
Galena Creek above the mouth	10.9	970	240
Flat Creek above S9 and below LES-57, LES-47, and S1	31.2	700	170
South McQuesten River above S11 and below S10 and S9	29.9	670	160
South McQuesten River above LES-5 and below S11 and LES-10	95.0	850	200
Haldane Creek above South McQuesten Road	88.8	830	200

Details of enclosed basins created by open pits:

Enclosed Basin Description	Total Catchment Area (km ²)	Catchment Median Elevation (m.a.s.l.)	MAR - Mean Annual Runoff (mm)
Open pits within catchment of Element 1 (Calumet "C" and Onek)	0.09	1180	290
Open pits within incremental catchment of Element 2 (Sime 6, Sime 4, 35 Vein, and Miller)	0.19	1280	320
Open pits within catchment of Element 3 (Western portion of Calumet 4-11 Veins)	0.05	1400	350
Open pits within catchment of Element 4 (Birmingham and Birmingham SW)	0.18	1350	340
Open pits within incremental catchment of Element 5 (Calumet 3, Calumet 2, and part of Calumet 4-11 Veins)	0.23	1380	350
Open pits within catchment of Element 8 (Silver King)	0.27	860	210

Seasonal Distributions:

Description	Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Annual	Source of Data/ Comment
Number of days in period	90.25	91	92	92	365.25	
Average monthly flows for minesite streams (% of MAR)	4.8	54.8	28.5	11.9	100	Distribution of WSC Station 09DD004 (McQuesten R.)
Average discharge from Galkeno 900 Adit (L/s)	5.5	8	8	6	6.9	Average of measured flows (UKHM/Govt/LES data)
Average discharge from Onek Adit (L/s)	0.23	0.32	0.35	0.32	0.31	Average of measured flows (UKHM/Govt/LES data)
Average flow from natural spring near Christal Lake (L/s)	2.5	2.5	2.5	2.5	2.5	Average of two spot measurements taken in 1995 by LES
Average discharge from Galkeno 300 Adit (L/s)	0.1	0.1	0.1	0.1	0.1	One spot measurement taken in July 1994 by LES
Average discharge from UN Adit (L/s)	0.3	0.3	0.3	0.3	0.3	Average of measured flows (UKHM/Govt/LES data)
Average discharge from Bermingham Adit (L/s)	1.2	3.6	1.6	1.5	2.0	Average of measured flows (UKHM/Govt/LES data)
Average discharge from Ruby 400 Adit (L/s)	1.2	1.5	1.9	1.5	1.5	Average of measured flows (UKHM/Govt/LES data)
Average discharge from No Cash 500 Adit (L/s)	4.1	4.1	5.1	4.1	4.4	Average of measured flows (UKHM/Govt/LES data)
Seepage from Dam No.3 of Elsa Tailings Impoundment (L/s)	0	0	0	0	0	No data available - assumed negligible
Average discharge from Silver King Adit (L/s)	6	8	6	6	6.5	Average of measured flows (UKHM/Govt/LES data)
Average discharge from Husky SW Adit (L/s)	3.3	3.3	3.3	3.3	3.3	Average of measured flows (UKHM/LES data)
Average discharge from Bellekeno 600 Adit (L/s)	2	2	2.5	2.5	2.3	Average of measured flows (UKHM/Govt/LES data)
Average discharge from Keno 700 Adit (L/s)	0.3	3.5	3	1.5	2.1	Average of measured flows (UKHM/Govt/LES data)
Average discharge from Lucky Queen Adit (L/s)	0.9	0.9	0.9	0.9	0.9	Average of measured flows (UKHM/Govt data)
Average discharge from Sadie Ladue Adit (L/s)	9	11	11	11	10.5	Average of measured flows (UKHM/Govt/LES data)

Element 1, Christal Creek above Station S18							Sulphate
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Catchment runoff (excluding runoff into open pits)	Flow (1000 m³)	87	998	519	217	1822	Estimated using regional hydrology study
	Concentration (mg/L)	233	76	240	195	144	Computed (load divided by flow)
	Load (tonnes)	20	76	124	42	263	Computed (load at S18 - loads at adits and spring)
Discharge from Galkeno 900 Adit (prior to treatment)	Flow (1000 m³)	43	63	64	48	217	Average of measured flows (UKHM/Govt/LES data)
	Concentration (mg/L)	1300	1300	1300	1300	1300	Average observed concentration at S5
	Load (tonnes)	56	82	83	62	282	Computed (flow times concentration)
Discharge from Onek Adit	Flow (1000 m³)	2	3	3	3	10	Average of measured flows (UKHM/Govt/LES data)
	Concentration (mg/L)	530	530	530	530	530	Average observed concentration at LES-40
	Load (tonnes)	1	1	1	1	5	Computed (flow times concentration)
Discharge from natural spring	Flow (1000 m³)	19	20	20	20	79	Average of two spot measurements taken in 1995
	Concentration (mg/L)	170	170	170	170	170	Average observed concentration at LES-66
	Load (tonnes)	3	3	3	3	13	Computed (flow times concentration)
Totals	Flow (1000 m³)	152	1083	605	287	2127	Computed (total of all inflows to element)
	Concentration (mg/L)	530	150	350	380	265	Computed (load divided by flow)
	Load (tonnes)	80	163	212	109	564	Computed load at Station S18
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station S18	Flow (1000 m³)	152	1083	605	287	2127	Computed (total of all inflows to element)
	Concentration (mg/L)	530	150	350	380	265	Avg. observed concentrations for complete record
	Load (tonnes)	80	163	212	109	564	Computed (flow times concentration)

Element 2, Christal Creek between Stations S19 and S18							Sulphate
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Runoff from incremental catchment (excluding runoff into open pits)	Flow (1000 m³)	392	4479	2329	973	8173	Estimated using regional hydrology study
	Concentration (mg/L)	168	50	148	120	92	Computed (load divided by flow)
	Load (tonnes)	66	226	345	117	754	Computed (load at S19 - loads at S18 and adits)
Flow from outlet of Element 1 (i.e., flow at Station S18)	Flow (1000 m³)	152	1083	605	287	2127	From Element 1
	Concentration (mg/L)	530	150	350	380	265	From Element 1
	Load (tonnes)	80	163	212	109	564	From Element 1
Discharge from Galkeno 300 Adit	Flow (1000 m³)	1	1	1	1	3	One spot measurement taken in July 1994
	Concentration (mg/L)	1300	1300	1300	1300	1300	Average observed concentration at LES-32
	Load (tonnes)	1	1	1	1	4	Computed (flow times concentration)
Discharge from UN Adit	Flow (1000 m³)	2	2	2	2	9	Average of measured flows (UKHM/Govt/LES data)
	Concentration (mg/L)	120	120	120	120	120	Average observed concentration at LES-30
	Load (tonnes)	0	0	0	0	1	Computed (flow times concentration)
Totals	Flow (1000 m³)	547	5566	2938	1263	10313	Computed (total of all inflows to element)
	Concentration (mg/L)	270	70	190	180	128	Computed (load divided by flow)
	Load (tonnes)	148	390	558	227	1323	Computed load at Station S19
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station S19	Flow (1000 m³)	547	5566	2938	1263	10313	Computed (total of all inflows to element)
	Concentration (mg/L)	270	70	190	180	128	Avg. observed concentrations for complete record
	Load (tonnes)	148	390	558	227	1323	Computed (flow times concentration)

Sulphate

Element 3, Sandy Creek above Highway 2					Sulphate		
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Catchment runoff (excluding runoff into open pits)	Flow (1000 m³)	31	356	185	77	650	Estimated using regional hydrology study
	Concentration (mg/L)	170	170	170	170	170	Average of two grab samples taken in 1995
	Load (tonnes)	5	61	31	13	110	Computed load at LES-63
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station LES-63	Flow (1000 m³)	31	356	185	77	650	Computed (total of all inflows to element)
	Concentration (mg/L)	170	170	170	170	170	Average of two grab samples taken in 1995
	Load (tonnes)	5	61	31	13	110	Computed (flow times concentration)

Element 4, No Cash Creek above Highway 2					Sulphate		
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Catchment runoff (excluding runoff into open pits)	Flow (1000 m³)	19	213	111	46	389	Estimated using regional hydrology study
	Concentration (mg/L)	593	490	484	538	499	Computed (load divided by flow)
	Load (tonnes)	11	104	54	25	194	Computed (load at LES-21 minus loads at adits)
Discharge from Bermingham Adit	Flow (1000 m³)	9	28	13	12	62	Average of measured flows (UKHM/Govt/LES data)
	Concentration (mg/L)	60	60	60	60	60	Average observed concentration at LES-18
	Load (tonnes)	1	2	1	1	4	Computed (flow times concentration)
Discharge from Ruby 400 Adit	Flow (1000 m³)	9	12	15	12	48	Average of measured flows (UKHM/Govt/LES data)
	Concentration (mg/L)	140	140	140	140	140	Average observed concentration at LES-19
	Load (tonnes)	1	2	2	2	7	Computed (flow times concentration)
Discharge from No Cash 500 Adit	Flow (1000 m³)	32	32	41	33	137	Average of measured flows (UKHM/Govt/LES data)
	Concentration (mg/L)	550	550	550	550	550	Average observed concentration at LES-20
	Load (tonnes)	18	18	22	18	76	Computed (flow times concentration)
Totals	Flow (1000 m³)	69	285	179	103	637	Computed (total of all inflows to element)
	Concentration (mg/L)	440	440	440	440	440	Computed (load divided by flow)
	Load (tonnes)	31	126	79	45	280	Computed load at Station LES-21
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station LES-21	Flow (1000 m³)	69	285	179	103	637	Computed (total of all inflows to element)
	Concentration (mg/L)	440	440	440	440	440	Average of 3 grab samples taken in 1994/95
	Load (tonnes)	31	126	79	45	280	Computed (flow times concentration)

Element 5, South McQuesten River between Stations S10 and LES-1							Sulphate
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Runoff from incremental catchment (excluding runoff into open pits)	Flow (1000 m ³)	233	2660	1384	578	4855	Estimated using regional hydrology study
	Concentration (mg/L)	492	109	171	236	160	Computed (load divided by flow)
	Load (tonnes)	115	290	237	137	778	Computed (load at S10 - loads at 4 u/s stations)
Flow of South McQuesten River at Station LES-1	Flow (1000 m ³)	5255	59995	31202	13028	109480	Estimated using regional hydrology study
	Concentration (mg/L)	60	20	40	60	32	Average observed concentrations at LES-1
	Load (tonnes)	315	1200	1248	782	3545	Computed (flow times concentration)
Flow from outlet of Element 2 (i.e., flow at Station S19)	Flow (1000 m ³)	547	5566	2938	1263	10313	From Element 2
	Concentration (mg/L)	270	70	190	180	128	From Element 2
	Load (tonnes)	148	390	558	227	1323	From Element 2
Flow from outlet of Element 3 (i.e., flow at Station LES-63)	Flow (1000 m ³)	31	356	185	77	650	From Element 3
	Concentration (mg/L)	170	170	170	170	170	From Element 3
	Load (tonnes)	5	61	31	13	110	From Element 3
Flow from outlet of Element 4 (i.e., flow at Station LES-21)	Flow (1000 m ³)	69	285	179	103	637	From Element 4
	Concentration (mg/L)	440	440	440	440	440	From Element 4
	Load (tonnes)	31	126	79	45	280	From Element 4
Totals	Flow (1000 m ³)	6136	68862	35888	15049	125934	Computed (total of all inflows to element)
	Concentration (mg/L)	100	30	60	80	48	Computed (load divided by flow)
	Load (tonnes)	614	2066	2153	1204	6037	Computed load at Station S10
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station S10	Flow (1000 m ³)	6136	68862	35888	15049	125934	Computed (total of all inflows to element)
	Concentration (mg/L)	100	30	60	80	48	Avg. observed concentrations for complete record
	Load (tonnes)	614	2066	2153	1204	6037	Computed (flow times concentration)

Element 6, Elsa Tailings Impoundment							Sulphate
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Catchment runoff	Flow (1000 m ³)	37	424	221	92	774	Estimated using regional hydrology study
	Concentration (mg/L)	400	400	400	400	400	Computed (load divided by flow)
	Load (tonnes)	15	170	88	37	310	Computed (combined load of decant and seepage)
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Decant at Station S1	Flow (1000 m ³)	37	424	221	92	774	Computed (catchment runoff minus seepage)
	Concentration (mg/L)	400	400	400	400	400	Avg. observed conc. at S1 for period 1990-95
	Load (tonnes)	15	170	88	37	310	Computed (flow times concentration)
Seepage from Dam No. 3	Flow (1000 m ³)	0	0	0	0	0	No data available - assumed negligible
	Concentration (mg/L)	2100	2100	2100	2100	2100	Assumed LES-73 representative of all seepage
	Load (tonnes)	0	0	0	0	0	Computed (flow times concentration)
Totals	Flow (1000 m ³)	37	424	221	92	774	Computed (total of all outflows from element)
	Concentration (mg/L)	400	400	400	400	400	Computed (load divided by flow)
	Load (tonnes)	15	170	88	37	310	Computed (total of all outflows from element)

Element 7, Porcupine Creek Diversion Channel							Sulphate
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Catchment runoff	Flow (1000 m ³)	131	1494	777	325	2727	Estimated using regional hydrology study
	Concentration (mg/L)	380	380	380	380	380	Computed (load divided by flow)
	Load (tonnes)	50	568	295	123	1036	Computed load at LES-47
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station LES-47	Flow (1000 m ³)	131	1494	777	325	2727	Computed (total of all inflows to element)
	Concentration (mg/L)	380	380	380	380	380	Average of 4 grab samples taken in 1994/95
	Load (tonnes)	50	568	295	123	1036	Computed (flow times concentration)

Element 8, Galena Creek above the mouth							Sulphate
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Catchment runoff (excluding runoff into open pits)	Flow (1000 m ³)	123	1402	729	305	2559	Estimated using regional hydrology study
	Concentration (mg/L)	109	189	184	162	181	Computed (load divided by flow)
	Load (tonnes)	13	265	134	49	463	Computed (load at LES-57 minus load at adit)
Discharge from Silver King Adit (prior to treatment)	Flow (1000 m ³)	47	83	48	48	205	Average of measured flows (UKHM/Govt/LES data)
	Concentration (mg/L)	440	440	440	440	440	Average observed concentration at S13
	Load (tonnes)	21	28	21	21	90	Computed (flow times concentration)
Totals	Flow (1000 m ³)	170	1465	777	352	2764	Computed (total of all inflows to element)
	Concentration (mg/L)	200	200	200	200	200	Computed (load divided by flow)
	Load (tonnes)	34	293	155	70	553	Computed load at Station LES-57
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station LES-57	Flow (1000 m ³)	170	1465	777	352	2764	Computed (total of all inflows to element)
	Concentration (mg/L)	200	200	200	200	200	Average of 3 grab samples taken in 1994/95
	Load (tonnes)	34	293	155	70	553	Computed (flow times concentration)

Element 9, Flat Creek above Station S9 and below Porcupine Creek Diversion Channel							Sulphate
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Runoff from incremental catchment	Flow (1000 m ³)	255	2907	1512	631	5304	Estimated using regional hydrology study
	Concentration (mg/L)	-235	-165	-17	-189	-129	Computed (load divided by flow)
	Load (tonnes)	-60	-479	-26	-120	-685	Computed (load at S9 - loads at u/s stations & adit)
Discharge from Husky SW Adit	Flow (1000 m ³)	26	26	26	26	104	Average of measured flows(UKHM/LES data)
	Concentration (mg/L)	660	660	660	660	660	Average observed concentration at LES-14
	Load (tonnes)	17	17	17	17	69	Computed (flow times concentration)
Flow from outlet of Element 6 (both decant and seepage)	Flow (1000 m ³)	37	424	221	92	774	From Element 6
	Concentration (mg/L)	400	400	400	400	400	From Element 6
	Load (tonnes)	15	170	88	37	310	From Element 6
Flow from outlet of Element 7 (i.e., flow at Station LES-47)	Flow (1000 m ³)	131	1494	777	325	2727	From Element 7
	Concentration (mg/L)	380	380	380	380	380	From Element 7
	Load (tonnes)	50	568	295	123	1036	From Element 7
Flow from outlet of Element 8 (i.e., flow at Station LES-57)	Flow (1000 m ³)	170	1465	777	352	2764	From Element 8
	Concentration (mg/L)	200	200	200	200	200	From Element 8
	Load (tonnes)	34	293	155	70	553	From Element 8
Totals	Flow (1000 m ³)	618	6316	3313	1426	11674	Computed (total of all inflows to element)
	Concentration (mg/L)	90	90	160	90	110	Computed (load divided by flow)
	Load (tonnes)	56	568	530	128	1283	Computed load at Station S9
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station S9	Flow (1000 m ³)	618	6316	3313	1426	11674	Computed (total of all inflows to element)
	Concentration (mg/L)	90	90	160	90	110	Avg. observed concentrations for period 1990-1995
	Load (tonnes)	56	568	530	128	1283	Computed (flow times concentration)

Element 10, South McQuesten River between Stations S11 and S10							Sulphate
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Runoff from incremental catchment	Flow (1000 m ³)	230	2622	1363	569	4784	Estimated using regional hydrology study
	Concentration (mg/L)	2560	1369	115	654	984	Computed (load divided by flow)
	Load (tonnes)	588	3590	156	372	4706	Computed (load at S11 - loads at u/s stations)
Flow from outlet of Element 5 (i.e., flow at Station S10)	Flow (1000 m ³)	6136	68862	35888	15049	125934	From Element 5
	Concentration (mg/L)	100	30	60	80	48	From Element 5
	Load (tonnes)	614	2066	2153	1204	6037	From Element 5
Flow from outlet of Element 9 (i.e., flow at Station S9)	Flow (1000 m ³)	618	6316	3313	1426	11674	From Element 9
	Concentration (mg/L)	90	90	160	90	110	From Element 9
	Load (tonnes)	56	568	530	128	1283	From Element 9
Totals	Flow (1000 m ³)	6983	77800	40564	17044	142391	Computed (total of all inflows to element)
	Concentration (mg/L)	180	80	70	100	84	Computed (load divided by flow)
	Load (tonnes)	1257	6224	2839	1704	12025	Computed load at Station S11
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station S11	Flow (1000 m ³)	6983	77800	40564	17044	142391	Computed (total of all inflows to element)
	Concentration (mg/L)	180	80	70	100	84	Avg. observed concentrations for period 1990-1995
	Load (tonnes)	1257	6224	2839	1704	12025	Computed (flow times concentration)

Element 11, South McQuesten River between Stations LES-5 and S11							Sulphate
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Runoff from incremental catchment	Flow (1000 m³)	912	10412	5415	2261	19000	Estimated using regional hydrology study
	Concentration (mg/L)	-927	-155	-81	-308	-189	Computed (load divided by flow)
	Load (tonnes)	-845	-1619	-439	-697	-3600	Computed (load at LES-5 minus loads at u/s stns.)
Flow of Haldane Creek at Station LES-10	Flow (1000 m³)	852	9732	5062	2113	17760	Estimated using regional hydrology study
	Concentration (mg/L)	30	30	30	30	30	One grab sample taken in July 1994
	Load (tonnes)	26	292	152	63	533	Computed (flow times concentration)
Flow from outlet of Element 10 (i.e., flow at Station S11)	Flow (1000 m³)	6983	77800	40564	17044	142391	From Element 10
	Concentration (mg/L)	180	80	70	100	84	From Element 10
	Load (tonnes)	1257	6224	2839	1704	12025	From Element 10
Totals	Flow (1000 m³)	8748	97945	51040	21419	179151	Computed (total of all inflows to element)
	Concentration (mg/L)	50	50	50	50	50	Computed (load divided by flow)
	Load (tonnes)	437	4897	2552	1071	8958	Computed load at Station LES-5
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station LES-5	Flow (1000 m³)	8748	97945	51040	21419	179151	Computed (total of all inflows to element)
	Concentration (mg/L)	50	50	50	50	50	Average of 6 grab samples taken by EPS and LES
	Load (tonnes)	437	4897	2552	1071	8958	Computed (flow times concentration)

Element 1, Christal Creek above Station S18							Zinc (total)
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Catchment runoff (excluding runoff into open pits)	Flow (1000 m ³)	87	998	519	217	1822	Estimated using regional hydrology study
	Concentration (mg/L)	-10	-0.3	-3	-5	-2	Computed (load divided by flow)
	Load (kg)	-916	-269	-1314	-989	-3489	Computed (load at S18 - loads at adits and spring)
Discharge from Galkeno 900 Adit (prior to treatment)	Flow (1000 m ³)	43	63	64	48	217	Average of measured flows (UKHM/Govt/LES data)
	Concentration (mg/L)	29	29	29	29	29	Average observed concentration at S5
	Load (kg)	1244	1824	1844	1383	6295	Computed (flow times concentration)
Discharge from Onok Adit	Flow (1000 m ³)	2	3	3	3	10	Average of measured flows (UKHM/Govt/LES data)
	Concentration (mg/L)	70	70	70	70	70	Average observed concentration at LES-40
	Load (kg)	126	176	195	178	674	Computed (flow times concentration)
Discharge from natural spring	Flow (1000 m ³)	19	20	20	20	79	Average of two spot measurements taken in 1995
	Concentration (mg/L)	0.1	0.1	0.1	0.1	0.1	Average observed concentration at LES-66
	Load (kg)	2	2	2	2	8	Computed (flow times concentration)
Totals	Flow (1000 m ³)	152	1083	605	287	2127	Computed (total of all inflows to element)
	Concentration (mg/L)	3	1.6	1.2	2	1.6	Computed (load divided by flow)
	Load (kg)	455	1734	727	574	3489	Computed load at Station S18
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station S18	Flow (1000 m ³)	152	1083	605	287	2127	Computed (total of all inflows to element)
	Concentration (mg/L)	3	1.6	1.2	2	1.6	Avg. observed conc. for period 1981 to Aug. 1993
	Load (kg)	455	1734	727	574	3489	Computed (flow times concentration)

Element 2, Christal Creek between Stations S19 and S18							Zinc (total)
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Runoff from incremental catchment (excluding runoff into open pits)	Flow (1000 m ³)	392	4479	2329	973	8173	Estimated using regional hydrology study
	Concentration (mg/L)	0.51	0.46	0.14	0.46	0.37	Computed (load divided by flow)
	Load (kg)	202	2052	337	451	3042	Computed (load at S19 - loads at S18 and adits)
Flow from outlet of Element 1 (i.e., flow at Station S18)	Flow (1000 m ³)	152	1083	605	287	2127	From Element 1
	Concentration (mg/L)	3	1.6	1.2	2	1.6	From Element 1
	Load (kg)	455	1734	727	574	3489	From Element 1
Discharge from Galkeno 300 Adit	Flow (1000 m ³)	1	1	1	1	3	One spot measurement taken in July 1994
	Concentration (mg/L)	140	140	140	140	140	Average observed concentration at LES-32
	Load (kg)	109	110	111	111	442	Computed (flow times concentration)
Discharge from UN Adit	Flow (1000 m ³)	2	2	2	2	9	Average of measured flows (UKHM/Govt/LES data)
	Concentration (mg/L)	0.1	0.1	0.1	0.1	0.1	Average observed concentration at LES-30
	Load (kg)	0	0	0	0	1	Computed (flow times concentration)
Totals	Flow (1000 m ³)	547	5566	2938	1263	10313	Computed (total of all inflows to element)
	Concentration (mg/L)	1.4	0.7	0.4	0.9	0.7	Computed (load divided by flow)
	Load (kg)	766	3896	1175	1136	6973	Computed load at Station S19
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station S19	Flow (1000 m ³)	547	5566	2938	1263	10313	Computed (total of all inflows to element)
	Concentration (mg/L)	1.4	0.7	0.4	0.9	0.7	Avg. observed conc. for period 1981 to Aug. 1993
	Load (kg)	766	3896	1175	1136	6973	Computed (flow times concentration)

Element 3, Sandy Creek above Highway 2						Zinc (total)	
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Catchment runoff (excluding runoff into open pits)	Flow (1000 m³)	31	356	185	77	650	Estimated using regional hydrology study
	Concentration (mg/L)	0.5	0.5	0.5	0.5	0.5	Average of two grab samples taken in 1995
	Load (kg)	16	178	93	39	325	Computed load at LES-63
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station LES-63	Flow (1000 m³)	31	356	185	77	650	Computed (total of all inflows to element)
	Concentration (mg/L)	0.5	0.5	0.5	0.5	0.5	Average of two grab samples taken in 1995
	Load (kg)	16	178	93	39	325	Computed (flow times concentration)

Element 4, No Cash Creek above Highway 2							Zinc (total)
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Catchment runoff (excluding runoff into open pits)	Flow (1000 m³)	19	213	111	46	389	Estimated using regional hydrology study
	Concentration (mg/L)	-6	5	4	2	4	Computed (load divided by flow)
	Load (kg)	-105	1153	431	78	1557	Computed (load at LES-21 minus loads at adits)
Discharge from Bermingham Adit	Flow (1000 m³)	9	28	13	12	62	Average of measured flows (UKHM/Govt/LES data)
	Concentration (mg/L)	5	5	5	5	5	Average observed concentration at LES-18
	Load (kg)	47	142	64	60	312	Computed (flow times concentration)
Discharge from Ruby 400 Adit	Flow (1000 m³)	9	12	15	12	48	Average of measured flows (UKHM/Govt/LES data)
	Concentration (mg/L)	1.7	1.7	1.7	1.7	1.7	Average observed concentration at LES-19
	Load (kg)	16	20	26	20	82	Computed (flow times concentration)
Discharge from No Cash 500 Adit	Flow (1000 m³)	32	32	41	33	137	Average of measured flows (UKHM/Govt/LES data)
	Concentration (mg/L)	15	15	15	15	15	Average observed concentration at LES-20
	Load (kg)	480	484	608	489	2060	Computed (flow times concentration)
Totals	Flow (1000 m³)	69	285	179	103	637	Computed (total of all inflows to element)
	Concentration (mg/L)	6.3	6.3	6.3	6.3	6.3	Computed (load divided by flow)
	Load (kg)	437	1798	1129	647	4011	Computed load at Station LES-21
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station LES-21	Flow (1000 m³)	69	285	179	103	637	Computed (total of all inflows to element)
	Concentration (mg/L)	6.3	6.3	6.3	6.3	6.3	Average of 3 grab samples taken in 1994/95
	Load (kg)	437	1798	1129	647	4011	Computed (flow times concentration)

Element 5, South McQuesten River between Stations S10 and LES-1							Zinc (total)
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Runoff from incremental catchment (excluding runoff into open pits)	Flow (1000 m³)	233	2660	1384	578	4855	Estimated using regional hydrology study
	Concentration (mg/L)	-3	-0.8	-1	-1.6	-1.1	Computed (load divided by flow)
	Load (kg)	-780	-2163	-1585	-899	-5427	Computed (load at S10 - loads at 4 u/s stations)
Flow of South McQuesten River at Station LES-1	Flow (1000 m³)	5255	59995	31202	13028	109480	Estimated using regional hydrology study
	Concentration (mg/L)	0.01	0.03	0.02	0.01	0.02	Average observed concentrations at LES-1
	Load (kg)	53	1800	624	130	2607	Computed (flow times concentration)
Flow from outlet of Element 2 (i.e., flow at Station S19)	Flow (1000 m³)	547	5566	2938	1263	10313	From Element 2
	Concentration (mg/L)	1.4	0.7	0.4	0.9	0.7	From Element 2
	Load (kg)	766	3896	1175	1136	6973	From Element 2
Flow from outlet of Element 3 (i.e., flow at Station LES-63)	Flow (1000 m³)	31	356	185	77	650	From Element 3
	Concentration (mg/L)	0.5	0.5	0.5	0.5	0.5	From Element 3
	Load (kg)	16	178	93	39	325	From Element 3
Flow from outlet of Element 4 (i.e., flow at Station LES-21)	Flow (1000 m³)	69	285	179	103	637	From Element 4
	Concentration (mg/L)	6.3	6.3	6.3	6.3	6.3	From Element 4
	Load (kg)	437	1798	1129	647	4011	From Element 4
Totals	Flow (1000 m³)	6136	68862	35888	15049	125934	Computed (total of all inflows to element)
	Concentration (mg/L)	0.08	0.08	0.04	0.07	0.07	Computed (load divided by flow)
	Load (kg)	491	5509	1436	1053	8489	Computed load at Station S10
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station S10	Flow (1000 m³)	6136	68862	35888	15049	125934	Computed (total of all inflows to element)
	Concentration (mg/L)	0.08	0.08	0.04	0.07	0.07	Avg. observed concentrations for complete record
	Load (kg)	491	5509	1436	1053	8489	Computed (flow times concentration)

Element 6, Elsa Tailings Impoundment						Zinc (total)	
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Catchment runoff	Flow (1000 m³)	37	424	221	92	774	Estimated using regional hydrology study
	Concentration (mg/L)	0.16	0.63	0.04	0.12	0.38	Computed (load divided by flow)
	Load (kg)	6	267	9	11	293	Computed (combined load of decant and seepage)
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Decant at Station S1	Flow (1000 m³)	37	424	221	92	774	Computed (catchment runoff minus seepage)
	Concentration (mg/L)	0.16	0.63	0.04	0.12	0.38	Avg. observed conc. at S1 for period 1990-95
	Load (kg)	6	267	9	11	293	Computed (flow times concentration)
Seepage from Dam No. 3	Flow (1000 m³)	0	0	0	0	0	No data available - assumed negligible
	Concentration (mg/L)	2.4	2.4	2.4	2.4	2.4	Assumed LES-73 representative of all seepage
	Load (kg)	0	0	0	0	0	Computed (flow times concentration)
Totals	Flow (1000 m³)	37	424	221	92	774	Computed (total of all outflows from element)
	Concentration (mg/L)	0.16	0.63	0.04	0.12	0.38	Computed (load divided by flow)
	Load (kg)	6	267	9	11	293	Computed (total of all outflows from element)

Element 7, Porcupine Creek Diversion Channel							Zinc (total)
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Catchment runoff	Flow (1000 m ³)	131	1494	777	325	2727	Estimated using regional hydrology study
	Concentration (mg/L)	0.35	0.35	0.35	0.35	0.35	Computed (load divided by flow)
	Load (kg)	46	523	272	114	954	Computed load at LES-47
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station LES-47	Flow (1000 m ³)	131	1494	777	325	2727	Computed (total of all inflows to element)
	Concentration (mg/L)	0.35	0.35	0.35	0.35	0.35	Average of 4 grab samples taken in 1994/95
	Load (kg)	46	523	272	114	954	Computed (flow times concentration)

Element 8, Galena Creek above the mouth							Zinc (total)
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Catchment runoff (excluding runoff into open pits)	Flow (1000 m³)	123	1402	729	305	2559	Estimated using regional hydrology study
	Concentration (mg/L)	0.013	0.013	0.013	0.013	0.013	Computed (load divided by flow)
	Load (kg)	2	19	10	4	34	Computed (load at LES-57 minus load at adit)
Discharge from Silver King Adit (prior to treatment)	Flow (1000 m³)	47	63	48	48	205	Average of measured flows (UKHM/Govt/LES data)
	Concentration (mg/L)	1	2	1.7	1	1.5	Average observed concentration at S13
	Load (kg)	47	126	81	48	301	Computed (flow times concentration)
Totals	Flow (1000 m³)	170	1465	777	352	2764	Computed (total of all inflows to element)
	Concentration (mg/L)	0.285	0.0985	0.117	0.147	0.12	Computed (load divided by flow)
	Load (kg)	48	144	91	52	335	Computed load at Station LES-57
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station LES-57	Flow (1000 m³)	170	1465	777	352	2764	Computed (total of all inflows to element)
	Concentration (mg/L)	0.29	0.10	0.12	0.15	0.12	Estimated concentrations w/o adit water treatment
	Load (kg)	48	144	91	52	335	Computed (flow times concentration)

Element 9, Flat Creek above Station S9 and below Porcupine Creek Diversion Channel							Zinc (total)
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Runoff from incremental catchment	Flow (1000 m ³)	255	2907	1512	631	5304	Estimated using regional hydrology study
	Concentration (mg/L)	0.09	0.19	-0.04	-0.11	0.09	Computed (load divided by flow)
	Load (kg)	24	563	-59	-66	462	Computed (load at S9 - loads at u/s stations & adit)
Discharge from Husky SW Adit	Flow (1000 m ³)	26	26	26	26	104	Average of measured flows(UKHM/LES data)
	Concentration (mg/L)	0.7	0.7	0.7	0.7	0.7	Average observed concentration at LES-14
	Load (kg)	18	18	18	18	73	Computed (flow times concentration)
Flow from outlet of Element 6 (both decant and seepage)	Flow (1000 m ³)	37	424	221	92	774	From Element 6
	Concentration (mg/L)	0.16	0.63	0.04	0.12	0.38	From Element 6
	Load (kg)	6	267	9	11	293	From Element 6
Flow from outlet of Element 7 (i.e., flow at Station LES-47)	Flow (1000 m ³)	131	1494	777	325	2727	From Element 7
	Concentration (mg/L)	0.35	0.35	0.35	0.35	0.35	From Element 7
	Load (kg)	46	523	272	114	954	From Element 7
Flow from outlet of Element 8 (i.e., flow at Station LES-57)	Flow (1000 m ³)	170	1465	777	352	2764	From Element 8
	Concentration (mg/L)	0.285	0.0985	0.117	0.147	0.12	From Element 8
	Load (kg)	48	144	91	52	335	From Element 8
Totals	Flow (1000 m ³)	618	6316	3313	1426	11674	Computed (total of all inflows to element)
	Concentration (mg/L)	0.23	0.24	0.1	0.09	0.18	Computed (load divided by flow)
	Load (kg)	142	1516	331	128	2118	Computed load at Station S9
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station S9	Flow (1000 m ³)	618	6316	3313	1426	11674	Computed (total of all inflows to element)
	Concentration (mg/L)	0.23	0.24	0.1	0.09	0.18	Avg. observed concentrations for period 1990-1995
	Load (kg)	142	1516	331	128	2118	Computed (flow times concentration)

Element 10, South McQuesten River between Stations S11 and S10							Zinc (total)
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Runoff from incremental catchment	Flow (1000 m ³)	230	2622	1363	569	4784	Estimated using regional hydrology study
	Concentration (mg/L)	0.3	1.5	0.5	0.02	1.0	Computed (load divided by flow)
	Load (kg)	65	3867	667	11	4611	Computed (load at S11 - loads at u/s stations)
Flow from outlet of Element 5 (i.e., flow at Station S10)	Flow (1000 m ³)	6136	68862	35888	15049	125934	From Element 5
	Concentration (mg/L)	0.08	0.08	0.04	0.07	0.07	From Element 5
	Load (kg)	491	5509	1436	1053	8489	From Element 5
Flow from outlet of Element 9 (i.e., flow at Station S9)	Flow (1000 m ³)	618	6316	3313	1426	11674	From Element 9
	Concentration (mg/L)	0.23	0.24	0.1	0.09	0.18	From Element 9
	Load (kg)	142	1516	331	128	2118	From Element 9
Totals	Flow (1000 m ³)	6983	77800	40564	17044	142391	Computed (total of all inflows to element)
	Concentration (mg/L)	0.1	0.14	0.06	0.07	0.11	Computed (load divided by flow)
	Load (kg)	698	10892	2434	1193	15217	Computed load at Station S11
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station S11	Flow (1000 m ³)	6983	77800	40564	17044	142391	Computed (total of all inflows to element)
	Concentration (mg/L)	0.1	0.14	0.06	0.07	0.11	Avg. observed concentrations for period 1990-1995
	Load (kg)	698	10892	2434	1193	15217	Computed (flow times concentration)

Element 11, South McQuesten River between Stations LES-5 and S11							Zinc (total)
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Runoff from incremental catchment	Flow (1000 m³)	912	10412	5415	2261	19000	Estimated using regional hydrology study
	Concentration (mg/L)	-1	-1	0	0	-1	Computed (load divided by flow)
	Load (kg)	-528	-9961	-1949	-775	-13213	Computed (load at LES-5 minus loads at u/s stns.)
Flow of Haldane Creek at Station LES-10	Flow (1000 m³)	852	9732	5062	2113	17760	Estimated using regional hydrology study
	Concentration (mg/L)	0.005	0.005	0.005	0.005	0.005	One grab sample taken in July 1994
	Load (kg)	4	49	25	11	89	Computed (flow times concentration)
Flow from outlet of Element 10 (i.e., flow at Station S11)	Flow (1000 m³)	6983	77800	40564	17044	142391	From Element 10
	Concentration (mg/L)	0.1	0.14	0.06	0.07	0.11	From Element 10
	Load (kg)	698	10892	2434	1193	15217	From Element 10
Totals	Flow (1000 m³)	8748	97945	51040	21419	179151	Computed (total of all inflows to element)
	Concentration (mg/L)	0.02	0.01	0.01	0.02	0.01	Computed (load divided by flow)
	Load (kg)	175	979	510	428	2093	Computed load at Station LES-5
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station LES-5	Flow (1000 m³)	8748	97945	51040	21419	179151	Computed (total of all inflows to element)
	Concentration (mg/L)	0.02	0.01	0.01	0.02	0.01	Average of 6 grab samples taken by EPS and LES
	Load (kg)	175	979	510	428	2093	Computed (flow times concentration)

Estimates of Average Flow, SO₄ Load, and T Zn Load at "Supplementary" Stations

Station	Catchment Area (km ²)	Catchment Median Elevation (m.a.s.l.)	Estimated Mean Annual Runoff		Average SO ₄ Concentration (mg/L)	Estimated Avg. Annual SO ₄ Load (tonnes)	Average T Zn Concentration (mg/L)	Estimated Avg. Annual T Zn Load (kg)
			(mm)	(m ³ /s)				
Erickson Gulch at LES-34	4.7	1460	370	0.055	40	70	0.07	122
Star Creek at LES-76	1.5	1140	280	0.013	200	84	0.02	8
Porcupine Gulch at LES-67	1.9	1270	320	0.019	140	85	0.007	4
Brefalt Creek at LES-45	2.3	1100	270	0.020	620	385	0.1	62
Flat Creek at LES-8	3.7	1200	300	0.035	45	50	0.008	9
Flat Creek at LES-46 (total)	5.4	1090	270	0.046	140	204	0.07	102
Galena Creek at LES-11	8.3	1000	240	0.063	50	100	0.017	34
Porcupine Diversion at LES-51	2.2	1200	300	0.021	540	356	1	660
Lightning Creek above LES-37	28.9	1450	360	0.330	25	260	0.008	83
Hope Gulch above LES-48	4.9	1550	390	0.061	75	143	0.2	382
Thunder Gulch above LES-52	14.8	1400	350	0.164	30	155	0.03	155
Lightning Creek above LES-41 (total)	60.2	1400	350	0.668	40	843	0.05	1054

Estimates of Average Flow, SO₄ Load, and T Zn Load at Adits Outside of South McQuesten River Watershed

Adit	Item	Period					Source of Data/ Comment
		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Annual	
Bellekeno 600	Flow (1000 m ³)	16	16	20	20	71	Average of measured flows (UKHM/Govt/LES data)
	SO ₄ Concentration (mg/L)	540	540	540	540	540	Average observed concentration at LES-39
	SO ₄ Load (tonnes)	8	8	11	11	38	Computed (flow times concentration)
	T Zn Concentration (mg/L)	4.4	4.4	4.4	4.4	4.4	Average observed concentration at S12/LES-39
	T Zn Load (kg)	69	69	87	87	313	Computed (flow times concentration)
Keno 700	Flow (1000 m ³)	2	28	24	12	66	Average of measured flows (UKHM/Govt/LES data)
	SO ₄ Concentration (mg/L)	170	170	170	170	170	Average observed concentration at LES-38
	SO ₄ Load (tonnes)	0.4	5	4	2	11	Computed (flow times concentration)
	T Zn Concentration (mg/L)	0.5	1	0.8	0.5	0.8	Average observed concentration at S6/LES-38
	T Zn Load (kg)	1	28	19	6	54	Computed (flow times concentration)
Lucky Queen	Flow (1000 m ³)	7	7	7	7	28	Average of measured flows (UKHM/Govt data)
	SO ₄ Concentration (mg/L)	#N/A	#N/A	#N/A	#N/A	#N/A	No data available
	SO ₄ Load (tonnes)	#N/A	#N/A	#N/A	#N/A	#N/A	Computed (flow times concentration)
	T Zn Concentration (mg/L)	0.15	0.15	0.15	0.15	0.15	Average observed concentration at S14
	T Zn Load (kg)	1	1	1	1	4	Computed (flow times concentration)
Sadie Ladue	Flow (1000 m ³)	70	86	87	87	332	Average of measured flows (UKHM/Govt/LES data)
	SO ₄ Concentration (mg/L)	80	80	80	80	80	Average observed concentration at LES-35
	SO ₄ Load (tonnes)	6	7	7	7	27	Computed (flow times concentration)
	T Zn Concentration (mg/L)	0.2	0.9	0.3	0.3	0.4	Average observed concentration at S7/LES-35
	T Zn Load (kg)	14	78	26	26	144	Computed (flow times concentration)

APPENDIX X-2
WATER QUALITY MODEL -
WITH TREATMENT

Preliminary Information

United Keno Hill Mines Ltd. Water Quality Model - With Treatment

Details of minesite catchments:

Catchment Description	Catchment Area (km²)	Catchment Median Elevation (m.a.s.l.)	MAR - Mean Annual Runoff (mm)
Christal Creek above Station S18	7.7	990	240
Christal Creek between Stations S19 and S18	35.8	970	230
Sandy Creek above LES-63	2.3	1180	290
No Cash Creek above LES-21	1.5	1200	300
South McQuesten River above S10 and below LES-1, S19, LES-21, and LES-63	32.9	650	150
South McQuesten River above LES-1	476	940	230
Catchment of Dam No. 3 of Elsa Tailings Impoundment	4.3	760	180
Porcupine Creek Diversion Channel above LES-47	10.1	1110	270
Galena Creek above the mouth	10.9	970	240
Fiat Creek above S9 and below LES-57, LES-47, and S1	31.2	700	170
South McQuesten River above S11 and below S10 and S9	29.9	670	160
South McQuesten River above LES-5 and below S11 and LES-10	95.0	850	200
Haldane Creek above South McQuesten Road	88.8	830	200

Details of enclosed basins created by open pits:

Enclosed Basin Description	Total Catchment Area (km²)	Catchment Median Elevation (m.a.s.l.)	MAR - Mean Annual Runoff (mm)
Open pits within catchment of Element 1 (Calumet "C" and Onek)	0.09	1180	290
Open pits within incremental catchment of Element 2 (Sime 6, Sime 4, 35 Vein, and Miller)	0.19	1280	320
Open pits within catchment of Element 3 (Western portion of Calumet 4-11 Veins)	0.05	1400	350
Open pits within catchment of Element 4 (Birmingham and Birmingham SW)	0.18	1350	340
Open pits within incremental catchment of Element 5 (Calumet 3, Calumet 2, and part of Calumet 4-11 Veins)	0.23	1380	350
Open pits within catchment of Element 8 (Silver King)	0.27	860	210

Seasonal Distributions:

Description	Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Annual	Source of Data/ Comment
Number of days in period	90.25	91	92	92	365.25	
Average monthly flows for minesite streams (% of MAR)	4.8	54.8	28.5	11.9	100	Distribution of WSC Station 09DD004 (McQuesten R.)
Average discharge from Gaikeno 900 Adit (L/s)	5.5	8	8	6	6.9	Average of measured flows (UKHM/Govt/LES data)
Average discharge from Onek Adit (L/s)	0.23	0.32	0.35	0.32	0.31	Average of measured flows (UKHM/Govt/LES data)
Average flow from natural spring near Christal Lake (L/s)	2.5	2.5	2.5	2.5	2.5	Average of two spot measurements taken in 1995 by LE
Average discharge from Galkeno 300 Adit (L/s)	0.1	0.1	0.1	0.1	0.1	One spot measurement taken in July 1994 by LES
Average discharge from UN Adit (L/s)	0.3	0.3	0.3	0.3	0.3	Average of measured flows (UKHM/Govt/LES data)
Average discharge from Bermingham Adit (L/s)	1.2	3.6	1.6	1.5	2.0	Average of measured flows (UKHM/Govt/LES data)
Average discharge from Ruby 400 Adit (L/s)	1.2	1.5	1.9	1.5	1.5	Average of measured flows (UKHM/Govt/LES data)
Average discharge from No Cash 500 Adit (L/s)	4.1	4.1	5.1	4.1	4.4	Average of measured flows (UKHM/Govt/LES data)
Seepage from Dam No.3 of Elsa Tailings Impoundment (L/s)	0	0	0	0	0	No data available - assumed negligible
Average discharge from Silver King Adit (L/s)	6	8	6	6	6.5	Average of measured flows (UKHM/Govt/LES data)
Average discharge from Husky SW Adit (L/s)	3.3	3.3	3.3	3.3	3.3	Average of measured flows (UKHM/LES data)
Average discharge from Bellekeno 600 Adit (L/s)	2	2	2.5	2.5	2.3	Average of measured flows (UKHM/Govt/LES data)
Average discharge from Keno 700 Adit (L/s)	0.3	3.5	3	1.5	2.1	Average of measured flows (UKHM/Govt/LES data)
Average discharge from Lucky Queen Adit (L/s)	0.9	0.9	0.9	0.9	0.9	Average of measured flows (UKHM/Govt data)
Average discharge from Sadie Ladue Adit (L/s)	9	11	11	11	10.5	Average of measured flows (UKHM/Govt/LES data)

Element 1, Christal Creek above Station S18							Sulphate
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Catchment runoff (excluding runoff into open pits)	Flow (1000 m³)	87	998	519	217	1822	Estimated using regional hydrology study
	Concentration (mg/L)	233	76	240	195	144	Computed (load divided by flow)
	Load (tonnes)	20	76	124	42	263	Computed (load at S18 - loads at adits and spring)
Discharge from Galkeno 900 Adit (prior to treatment)	Flow (1000 m³)	43	63	64	48	217	Average of measured flows (UKHM/Govt/LES data)
	Concentration (mg/L)	1300	1300	1300	1300	1300	Average observed concentration at S5
	Load (tonnes)	56	82	83	62	282	Computed (flow times concentration)
Discharge from Onek Adit	Flow (1000 m³)	2	3	3	3	10	Average of measured flows (UKHM/Govt/LES data)
	Concentration (mg/L)	530	530	530	530	530	Average observed concentration at LES-40
	Load (tonnes)	1	1	1	1	5	Computed (flow times concentration)
Discharge from natural spring	Flow (1000 m³)	19	20	20	20	79	Average of two spot measurements taken in 1995
	Concentration (mg/L)	170	170	170	170	170	Average observed concentration at LES-66
	Load (tonnes)	3	3	3	3	13	Computed (flow times concentration)
Totals	Flow (1000 m³)	152	1083	605	287	2127	Computed (total of all inflows to element)
	Concentration (mg/L)	530	150	350	380	265	Computed (load divided by flow)
	Load (tonnes)	80	163	212	109	564	Computed load at Station S18
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station S18	Flow (1000 m³)	152	1083	605	287	2127	Computed (total of all inflows to element)
	Concentration (mg/L)	530	150	350	380	265	Avg. observed concentrations for complete record
	Load (tonnes)	80	163	212	109	564	Computed (flow times concentration)

Element 2, Christal Creek between Stations S19 and S18							Sulphate
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Runoff from incremental catchment (excluding runoff into open pits)	Flow (1000 m³)	392	4479	2329	973	8173	Estimated using regional hydrology study
	Concentration (mg/L)	168	50	148	120	92	Computed (load divided by flow)
	Load (tonnes)	66	226	345	117	754	Computed (load at S19 - loads at S18 and adits)
Flow from outlet of Element 1 (i.e., flow at Station S18)	Flow (1000 m³)	152	1083	605	287	2127	From Element 1
	Concentration (mg/L)	530	150	350	380	265	From Element 1
	Load (tonnes)	80	163	212	109	564	From Element 1
Discharge from Galkeno 300 Adit	Flow (1000 m³)	1	1	1	1	3	One spot measurement taken in July 1994
	Concentration (mg/L)	1300	1300	1300	1300	1300	Average observed concentration at LES-32
	Load (tonnes)	1	1	1	1	4	Computed (flow times concentration)
Discharge from UN Adit	Flow (1000 m³)	2	2	2	2	9	Average of measured flows (UKHM/Govt/LES data)
	Concentration (mg/L)	120	120	120	120	120	Average observed concentration at LES-30
	Load (tonnes)	0	0	0	0	1	Computed (flow times concentration)
Totals	Flow (1000 m³)	547	5566	2938	1263	10313	Computed (total of all inflows to element)
	Concentration (mg/L)	270	70	190	180	128	Computed (load divided by flow)
	Load (tonnes)	148	390	558	227	1323	Computed load at Station S19
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station S19	Flow (1000 m³)	547	5566	2938	1263	10313	Computed (total of all inflows to element)
	Concentration (mg/L)	270	70	190	180	128	Avg. observed concentrations for complete record
	Load (tonnes)	148	390	558	227	1323	Computed (flow times concentration)

Element 3, Sandy Creek above Highway 2						Sulphate	
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Catchment runoff (excluding runoff into open pits)	Flow (1000 m³)	31	356	185	77	650	Estimated using regional hydrology study
	Concentration (mg/L)	170	170	170	170	170	Average of two grab samples taken in 1995
	Load (tonnes)	5	61	31	13	110	Computed load at LES-63
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station LES-63	Flow (1000 m³)	31	356	185	77	650	Computed (total of all inflows to element)
	Concentration (mg/L)	170	170	170	170	170	Average of two grab samples taken in 1995
	Load (tonnes)	5	61	31	13	110	Computed (flow times concentration)

Element 4, No Cash Creek above Highway 2							Sulphate
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Catchment runoff (excluding runoff into open pits)	Flow (1000 m³)	19	213	111	46	389	Estimated using regional hydrology study
	Concentration (mg/L)	593	490	484	538	499	Computed (load divided by flow)
	Load (tonnes)	11	104	54	25	194	Computed (load at LES-21 minus loads at adits)
Discharge from Bermingham Adit	Flow (1000 m³)	9	28	13	12	62	Average of measured flows (UKHM/Govt/LES data)
	Concentration (mg/L)	60	60	60	60	60	Average observed concentration at LES-18
	Load (tonnes)	1	2	1	1	4	Computed (flow times concentration)
Discharge from Ruby 400 Adit	Flow (1000 m³)	9	12	15	12	48	Average of measured flows (UKHM/Govt/LES data)
	Concentration (mg/L)	140	140	140	140	140	Average observed concentration at LES-19
	Load (tonnes)	1	2	2	2	7	Computed (flow times concentration)
Discharge from No Cash 500 Adit	Flow (1000 m³)	32	32	41	33	137	Average of measured flows (UKHM/Govt/LES data)
	Concentration (mg/L)	550	550	550	550	550	Average observed concentration at LES-20
	Load (tonnes)	18	18	22	18	76	Computed (flow times concentration)
Totals	Flow (1000 m³)	69	285	179	103	637	Computed (total of all inflows to element)
	Concentration (mg/L)	440	440	440	440	440	Computed (load divided by flow)
	Load (tonnes)	31	126	79	45	280	Computed load at Station LES-21
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station LES-21	Flow (1000 m³)	69	285	179	103	637	Computed (total of all inflows to element)
	Concentration (mg/L)	440	440	440	440	440	Average of 3 grab samples taken in 1994/95
	Load (tonnes)	31	126	79	45	280	Computed (flow times concentration)

Element 5, South McQuesten River between Stations S10 and LES-1						Sulphate	
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Runoff from incremental catchment (excluding runoff into open pits)	Flow (1000 m ³)	233	2660	1384	578	4855	Estimated using regional hydrology study
	Concentration (mg/L)	492	109	171	236	160	Computed (load divided by flow)
	Load (tonnes)	115	290	237	137	778	Computed (load at S10 - loads at 4 u/s stations)
Flow of South McQuesten River at Station LES-1	Flow (1000 m ³)	5255	59995	31202	13028	109480	Estimated using regional hydrology study
	Concentration (mg/L)	60	20	40	60	32	Average observed concentrations at LES-1
	Load (tonnes)	315	1200	1248	782	3545	Computed (flow times concentration)
Flow from outlet of Element 2 (i.e., flow at Station S19)	Flow (1000 m ³)	547	5566	2938	1263	10313	From Element 2
	Concentration (mg/L)	270	70	190	180	128	From Element 2
	Load (tonnes)	148	390	558	227	1323	From Element 2
Flow from outlet of Element 3 (i.e., flow at Station LES-63)	Flow (1000 m ³)	31	356	185	77	650	From Element 3
	Concentration (mg/L)	170	170	170	170	170	From Element 3
	Load (tonnes)	5	61	31	13	110	From Element 3
Flow from outlet of Element 4 (i.e., flow at Station LES-21)	Flow (1000 m ³)	69	285	179	103	637	From Element 4
	Concentration (mg/L)	440	440	440	440	440	From Element 4
	Load (tonnes)	31	126	79	45	280	From Element 4
Totals	Flow (1000 m ³)	6136	68862	35888	15049	125934	Computed (total of all inflows to element)
	Concentration (mg/L)	100	30	60	80	48	Computed (load divided by flow)
	Load (tonnes)	614	2066	2153	1204	6037	Computed load at Station S10
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station S10	Flow (1000 m ³)	6136	68862	35888	15049	125934	Computed (total of all inflows to element)
	Concentration (mg/L)	100	30	60	80	48	Avg. observed concentrations for complete record
	Load (tonnes)	614	2066	2153	1204	6037	Computed (flow times concentration)

Element 6, Elsa Tailings Impoundment						Sulphate	
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Catchment runoff	Flow (1000 m ³)	37	424	221	92	774	Estimated using regional hydrology study
	Concentration (mg/L)	400	400	400	400	400	Computed (load divided by flow)
	Load (tonnes)	15	170	88	37	310	Computed (combined load of decant and seepage)
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Decant at Station S1	Flow (1000 m ³)	37	424	221	92	774	Computed (catchment runoff minus seepage)
	Concentration (mg/L)	400	400	400	400	400	Avg. observed conc. at S1 for period 1990-95
	Load (tonnes)	15	170	88	37	310	Computed (flow times concentration)
Seepage from Dam No. 3	Flow (1000 m ³)	0	0	0	0	0	No data available - assumed negligible
	Concentration (mg/L)	2100	2100	2100	2100	2100	Assumed LES-73 representative of all seepage
	Load (tonnes)	0	0	0	0	0	Computed (flow times concentration)
Totals	Flow (1000 m ³)	37	424	221	92	774	Computed (total of all outflows from element)
	Concentration (mg/L)	400	400	400	400	400	Computed (load divided by flow)
	Load (tonnes)	15	170	88	37	310	Computed (total of all outflows from element)

Element 7, Porcupine Creek Diversion Channel							Sulphate
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Catchment runoff	Flow (1000 m ³)	131	1494	777	325	2727	Estimated using regional hydrology study
	Concentration (mg/L)	380	380	380	380	380	Computed (load divided by flow)
	Load (tonnes)	50	568	295	123	1036	Computed load at LES-47
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station LES-47	Flow (1000 m ³)	131	1494	777	325	2727	Computed (total of all inflows to element)
	Concentration (mg/L)	380	380	380	380	380	Average of 4 grab samples taken in 1994/95
	Load (tonnes)	50	568	295	123	1036	Computed (flow times concentration)

Element 8, Galena Creek above the mouth							Sulphate
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Catchment runoff (excluding runoff into open pits)	Flow (1000 m ³)	123	1402	729	305	2559	Estimated using regional hydrology study
	Concentration (mg/L)	109	189	184	162	181	Computed (load divided by flow)
	Load (tonnes)	13	265	134	49	463	Computed (load at LES-57 minus load at adit)
Discharge from Silver King Adit (prior to treatment)	Flow (1000 m ³)	47	63	48	48	205	Average of measured flows (UKHM/Govt/LES data)
	Concentration (mg/L)	440	440	440	440	440	Average observed concentration at S13
	Load (tonnes)	21	28	21	21	90	Computed (flow times concentration)
Totals	Flow (1000 m ³)	170	1465	777	352	2764	Computed (total of all inflows to element)
	Concentration (mg/L)	200	200	200	200	200	Computed (load divided by flow)
	Load (tonnes)	34	293	155	70	553	Computed load at Station LES-57
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station LES-57	Flow (1000 m ³)	170	1465	777	352	2764	Computed (total of all inflows to element)
	Concentration (mg/L)	200	200	200	200	200	Average of 3 grab samples taken in 1994/95
	Load (tonnes)	34	293	155	70	553	Computed (flow times concentration)

Element 9, Flat Creek above Station S9 and below Porcupine Creek Diversion Channel						Sulphate	
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Runoff from incremental catchment	Flow (1000 m³)	255	2907	1512	631	5304	Estimated using regional hydrology study
	Concentration (mg/L)	-235	-165	-17	-189	-129	Computed (load divided by flow)
	Load (tonnes)	-60	-479	-26	-120	-685	Computed (load at S9 - loads at u/s stations & adit)
Discharge from Husky SW Adit	Flow (1000 m³)	26	26	26	26	104	Average of measured flows(UKHM/LES data)
	Concentration (mg/L)	660	660	660	660	660	Average observed concentration at LES-14
	Load (tonnes)	17	17	17	17	69	Computed (flow times concentration)
Flow from outlet of Element 6 (both decant and seepage)	Flow (1000 m³)	37	424	221	92	774	From Element 6
	Concentration (mg/L)	400	400	400	400	400	From Element 6
	Load (tonnes)	15	170	88	37	310	From Element 6
Flow from outlet of Element 7 (i.e., flow at Station LES-47)	Flow (1000 m³)	131	1494	777	325	2727	From Element 7
	Concentration (mg/L)	380	380	380	380	380	From Element 7
	Load (tonnes)	50	568	295	123	1036	From Element 7
Flow from outlet of Element 8 (i.e., flow at Station LES-57)	Flow (1000 m³)	170	1465	777	352	2764	From Element 8
	Concentration (mg/L)	200	200	200	200	200	From Element 8
	Load (tonnes)	34	293	155	70	553	From Element 8
Totals	Flow (1000 m³)	618	6316	3313	1426	11674	Computed (total of all inflows to element)
	Concentration (mg/L)	90	90	160	90	110	Computed (load divided by flow)
	Load (tonnes)	56	568	530	128	1283	Computed load at Station S9
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station S9	Flow (1000 m³)	618	6316	3313	1426	11674	Computed (total of all inflows to element)
	Concentration (mg/L)	90	90	160	90	110	Avg. observed concentrations for period 1990-1995
	Load (tonnes)	56	568	530	128	1283	Computed (flow times concentration)

Element 10, South McQuesten River between Stations S11 and S10							Sulphate
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Runoff from incremental catchment	Flow (1000 m³)	230	2622	1363	569	4784	Estimated using regional hydrology study
	Concentration (mg/L)	2560	1369	115	654	984	Computed (load divided by flow)
	Load (tonnes)	588	3590	156	372	4706	Computed (load at S11 - loads at u/s stations)
Flow from outlet of Element 5 (i.e., flow at Station S10)	Flow (1000 m³)	6136	68862	35888	15049	125934	From Element 5
	Concentration (mg/L)	100	30	60	80	48	From Element 5
	Load (tonnes)	614	2066	2153	1204	6037	From Element 5
Flow from outlet of Element 9 (i.e., flow at Station S9)	Flow (1000 m³)	618	6316	3313	1426	11674	From Element 9
	Concentration (mg/L)	90	90	160	90	110	From Element 9
	Load (tonnes)	56	568	530	128	1283	From Element 9
Totals	Flow (1000 m³)	6983	77800	40564	17044	142391	Computed (total of all inflows to element)
	Concentration (mg/L)	180	80	70	100	84	Computed (load divided by flow)
	Load (tonnes)	1257	6224	2839	1704	12025	Computed load at Station S11
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station S11	Flow (1000 m³)	6983	77800	40564	17044	142391	Computed (total of all inflows to element)
	Concentration (mg/L)	180	80	70	100	84	Avg. observed concentrations for period 1990-1995
	Load (tonnes)	1257	6224	2839	1704	12025	Computed (flow times concentration)

Element 11, South McQuesten River between Stations LES-5 and S11						Sulphate	
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Runoff from incremental catchment	Flow (1000 m³)	912	10412	5415	2261	19000	Estimated using regional hydrology study
	Concentration (mg/L)	-927	-155	-81	-308	-189	Computed (load divided by flow)
	Load (tonnes)	-845	-1619	-439	-697	-3600	Computed (load at LES-5 minus loads at u/s stns.)
Flow of Haldane Creek at Station LES-10	Flow (1000 m³)	852	9732	5062	2113	17760	Estimated using regional hydrology study
	Concentration (mg/L)	30	30	30	30	30	One grab sample taken in July 1994
	Load (tonnes)	26	292	152	63	533	Computed (flow times concentration)
Flow from outlet of Element 10 (i.e., flow at Station S11)	Flow (1000 m³)	6983	77800	40564	17044	142391	From Element 10
	Concentration (mg/L)	180	80	70	100	84	From Element 10
	Load (tonnes)	1257	6224	2839	1704	12025	From Element 10
Totals	Flow (1000 m³)	8748	97945	51040	21419	179151	Computed (total of all inflows to element)
	Concentration (mg/L)	50	50	50	50	50	Computed (load divided by flow)
	Load (tonnes)	437	4897	2552	1071	8958	Computed load at Station LES-5
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station LES-5	Flow (1000 m³)	8748	97945	51040	21419	179151	Computed (total of all inflows to element)
	Concentration (mg/L)	50	50	50	50	50	Average of 6 grab samples taken by EPS and LES
	Load (tonnes)	437	4897	2552	1071	8958	Computed (flow times concentration)

Element 1, Christal Creek above Station S18					Zinc (total)		
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Catchment runoff (excluding runoff into open pits)	Flow (1000 m³)	87	998	519	217	1822	Estimated using regional hydrology study
	Concentration (mg/L)	-12	-0.8	-3	-6	-3	Computed (load divided by flow)
	Load (kg)	-1068	-810	-1799	-1276	-4953	Computed (load at S18 - loads at adits and spring)
Discharge from Galkeno 900 Adit (prior to treatment)	Flow (1000 m³)	43	63	64	48	217	Average of measured flows (UKHM/Govt/LES data)
	Concentration (mg/L)	29	29	29	29	29	Average observed concentration at S5
	Load (kg)	1244	1824	1844	1383	6295	Computed (flow times concentration)
Discharge from Onek Adit	Flow (1000 m³)	2	3	3	3	10	Average of measured flows (UKHM/Govt/LES data)
	Concentration (mg/L)	70	70	70	70	70	Average observed concentration at LES-40
	Load (kg)	126	176	195	178	674	Computed (flow times concentration)
Discharge from natural spring	Flow (1000 m³)	19	20	20	20	79	Average of two spot measurements taken in 1995
	Concentration (mg/L)	0.1	0.1	0.1	0.1	0.1	Average observed concentration at LES-66
	Load (kg)	2	2	2	2	8	Computed (flow times concentration)
Totals	Flow (1000 m³)	152	1083	605	287	2127	Computed (total of all inflows to element)
	Concentration (mg/L)	2	1.1	0.4	1	1.0	Computed (load divided by flow)
	Load (kg)	303	1192	242	287	2024	Computed load at Station S18
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station S18	Flow (1000 m³)	152	1083	605	287	2127	Computed (total of all inflows to element)
	Concentration (mg/L)	2	1.1	0.4	1	1.0	Avg. observed conc. for period Sep 1993 to 1995
	Load (kg)	303	1192	242	287	2024	Computed (flow times concentration)

Element 2, Christal Creek between Stations S19 and S18							Zinc (total)
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Runoff from incremental catchment (excluding runoff into open pits)	Flow (1000 m³)	392	4479	2329	973	8173	Estimated using regional hydrology study
	Concentration (mg/L)	-0.22	0.21	0.10	0.11	0.14	Computed (load divided by flow)
	Load (kg)	-84	924	234	107	1180	Computed (load at S19 - loads at S18 and adits)
Flow from outlet of Element 1 (i.e., flow at Station S18)	Flow (1000 m³)	152	1083	605	287	2127	From Element 1
	Concentration (mg/L)	2	1.1	0.4	1	1.0	From Element 1
	Load (kg)	303	1192	242	287	2024	From Element 1
Discharge from Galkeno 300 Adit	Flow (1000 m³)	1	1	1	1	3	One spot measurement taken in July 1994
	Concentration (mg/L)	140	140	140	140	140	Average observed concentration at LES-32
	Load (kg)	109	110	111	111	442	Computed (flow times concentration)
Discharge from UN Adit	Flow (1000 m³)	2	2	2	2	9	Average of measured flows (UKHM/Govt/LES data)
	Concentration (mg/L)	0.1	0.1	0.1	0.1	0.1	Average observed concentration at LES-30
	Load (kg)	0	0	0	0	1	Computed (flow times concentration)
Totals	Flow (1000 m³)	547	5566	2938	1263	10313	Computed (total of all inflows to element)
	Concentration (mg/L)	0.6	0.4	0.2	0.4	0.4	Computed (load divided by flow)
	Load (kg)	328	2226	588	505	3647	Computed load at Station S19
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station S19	Flow (1000 m³)	547	5566	2938	1263	10313	Computed (total of all inflows to element)
	Concentration (mg/L)	0.6	0.4	0.2	0.4	0.4	Avg. observed conc. for period Sep 1993 to 1995
	Load (kg)	328	2226	588	505	3647	Computed (flow times concentration)

Element 3, Sandy Creek above Highway 2							Zinc (total)
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Catchment runoff (excluding runoff into open pits)	Flow (1000 m ³)	31	356	185	77	650	Estimated using regional hydrology study
	Concentration (mg/L)	0.5	0.5	0.5	0.5	0.5	Average of two grab samples taken in 1995
	Load (kg)	16	178	93	39	325	Computed load at LES-63
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station LES-63	Flow (1000 m ³)	31	356	185	77	650	Computed (total of all inflows to element)
	Concentration (mg/L)	0.5	0.5	0.5	0.5	0.5	Average of two grab samples taken in 1995
	Load (kg)	16	178	93	39	325	Computed (flow times concentration)

Element 4, No Cash Creek above Highway 2							Zinc (total)
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Catchment runoff (excluding runoff into open pits)	Flow (1000 m ³)	19	213	111	46	389	Estimated using regional hydrology study
	Concentration (mg/L)	-6	5	4	2	4	Computed (load divided by flow)
	Load (kg)	-105	1153	431	78	1557	Computed (load at LES-21 minus loads at adits)
Discharge from Bermingham Adit	Flow (1000 m ³)	9	28	13	12	62	Average of measured flows (UKHM/Govt/LES data)
	Concentration (mg/L)	5	5	5	5	5	Average observed concentration at LES-18
	Load (kg)	47	142	64	60	312	Computed (flow times concentration)
Discharge from Ruby 400 Adit	Flow (1000 m ³)	9	12	15	12	48	Average of measured flows (UKHM/Govt/LES data)
	Concentration (mg/L)	1.7	1.7	1.7	1.7	1.7	Average observed concentration at LES-19
	Load (kg)	16	20	26	20	82	Computed (flow times concentration)
Discharge from No Cash 500 Adit	Flow (1000 m ³)	32	32	41	33	137	Average of measured flows (UKHM/Govt/LES data)
	Concentration (mg/L)	15	15	15	15	15	Average observed concentration at LES-20
	Load (kg)	480	484	608	489	2060	Computed (flow times concentration)
Totals	Flow (1000 m ³)	69	285	179	103	637	Computed (total of all inflows to element)
	Concentration (mg/L)	6.3	6.3	6.3	6.3	6.3	Computed (load divided by flow)
	Load (kg)	437	1798	1129	647	4011	Computed load at Station LES-21
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station LES-21	Flow (1000 m ³)	69	285	179	103	637	Computed (total of all inflows to element)
	Concentration (mg/L)	6.3	6.3	6.3	6.3	6.3	Average of 3 grab samples taken in 1994/95
	Load (kg)	437	1798	1129	647	4011	Computed (flow times concentration)

Element 5, South McQuesten River between Stations S10 and LES-1						Zinc (total)	
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Runoff from incremental catchment (excluding runoff into open pits)	Flow (1000 m³)	233	2660	1384	578	4855	Estimated using regional hydrology study
	Concentration (mg/L)	-1	-0.2	-1	-0.5	-0.4	Computed (load divided by flow)
	Load (kg)	-342	-493	-997	-268	-2101	Computed (load at S10 - loads at 4 u/s stations)
Flow of South McQuesten River at Station LES-1	Flow (1000 m³)	5255	59995	31202	13028	109480	Estimated using regional hydrology study
	Concentration (mg/L)	0.01	0.03	0.02	0.01	0.02	Average observed concentrations at LES-1
	Load (kg)	53	1800	624	130	2607	Computed (flow times concentration)
Flow from outlet of Element 2 (i.e., flow at Station S19)	Flow (1000 m³)	547	5566	2938	1263	10313	From Element 2
	Concentration (mg/L)	0.6	0.4	0.2	0.4	0.4	From Element 2
	Load (kg)	328	2226	588	505	3647	From Element 2
Flow from outlet of Element 3 (i.e., flow at Station LES-63)	Flow (1000 m³)	31	356	185	77	650	From Element 3
	Concentration (mg/L)	0.5	0.5	0.5	0.5	0.5	From Element 3
	Load (kg)	16	178	93	39	325	From Element 3
Flow from outlet of Element 4 (i.e., flow at Station LES-21)	Flow (1000 m³)	69	285	179	103	637	From Element 4
	Concentration (mg/L)	6.3	6.3	6.3	6.3	6.3	From Element 4
	Load (kg)	437	1798	1129	647	4011	From Element 4
Totals	Flow (1000 m³)	6136	68862	35888	15049	125934	Computed (total of all inflows to element)
	Concentration (mg/L)	0.08	0.08	0.04	0.07	0.07	Computed (load divided by flow)
	Load (kg)	491	5509	1436	1053	8489	Computed load at Station S10
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station S10	Flow (1000 m³)	6136	68862	35888	15049	125934	Computed (total of all inflows to element)
	Concentration (mg/L)	0.08	0.08	0.04	0.07	0.07	Avg. observed concentrations for complete record
	Load (kg)	491	5509	1436	1053	8489	Computed (flow times concentration)

Element 6, Elsa Tailings Impoundment					Zinc (total)		
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Catchment runoff	Flow (1000 m³)	37	424	221	92	774	Estimated using regional hydrology study
	Concentration (mg/L)	0.16	0.63	0.04	0.12	0.38	Computed (load divided by flow)
	Load (kg)	6	267	9	11	293	Computed (combined load of decant and seepage)
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Decant at Station S1	Flow (1000 m³)	37	424	221	92	774	Computed (catchment runoff minus seepage)
	Concentration (mg/L)	0.16	0.63	0.04	0.12	0.38	Avg. observed conc. at S1 for period 1990-95
	Load (kg)	6	267	9	11	293	Computed (flow times concentration)
Seepage from Dam No. 3	Flow (1000 m³)	0	0	0	0	0	No data available - assumed negligible
	Concentration (mg/L)	2.4	2.4	2.4	2.4	2.4	Assumed LES-73 representative of all seepage
	Load (kg)	0	0	0	0	0	Computed (flow times concentration)
Totals	Flow (1000 m³)	37	424	221	92	774	Computed (total of all outflows from element)
	Concentration (mg/L)	0.16	0.63	0.04	0.12	0.38	Computed (load divided by flow)
	Load (kg)	6	267	9	11	293	Computed (total of all outflows from element)

Element 7, Porcupine Creek Diversion Channel							Zinc (total)
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Catchment runoff	Flow (1000 m ³)	131	1494	777	325	2727	Estimated using regional hydrology study
	Concentration (mg/L)	0.35	0.35	0.35	0.35	0.35	Computed (load divided by flow)
	Load (kg)	46	523	272	114	954	Computed load at LES-47
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station LES-47	Flow (1000 m ³)	131	1494	777	325	2727	Computed (total of all inflows to element)
	Concentration (mg/L)	0.35	0.35	0.35	0.35	0.35	Average of 4 grab samples taken in 1994/95
	Load (kg)	46	523	272	114	954	Computed (flow times concentration)

Element 8, Galena Creek above the mouth							Zinc (total)
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Catchment runoff (excluding runoff into open pits)	Flow (1000 m ³)	123	1402	729	305	2559	Estimated using regional hydrology study
	Concentration (mg/L)	-0.4	-0.07	-0.1	-0.1	-0.1	Computed (load divided by flow)
	Load (kg)	-43	-96	-66	-41	-246	Computed (load at LES-57 minus load at adit)
Discharge from Silver King Adit (prior to treatment)	Flow (1000 m ³)	47	63	48	48	205	Average of measured flows (UKHM/Govt/LES data)
	Concentration (mg/L)	1	2	1.7	1	1.5	Average observed concentration at S13
	Load (kg)	47	126	81	48	301	Computed (flow times concentration)
Totals	Flow (1000 m ³)	170	1465	777	352	2764	Computed (total of all inflows to element)
	Concentration (mg/L)	0.02	0.02	0.02	0.02	0.02	Computed (load divided by flow)
	Load (kg)	3	29	16	7	55	Computed load at Station LES-57
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station LES-57	Flow (1000 m ³)	170	1465	777	352	2764	Computed (total of all inflows to element)
	Concentration (mg/L)	0.02	0.02	0.02	0.02	0.02	Average of 3 grab samples taken in 1994/95
	Load (kg)	3	29	16	7	55	Computed (flow times concentration)

Element 9, Flat Creek above Station S9 and below Porcupine Creek Diversion Channel							Zinc (total)
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Runoff from incremental catchment	Flow (1000 m ³)	255	2907	1512	631	5304	Estimated using regional hydrology study
	Concentration (mg/L)	0.27	0.23	0.01	-0.03	0.14	Computed (load divided by flow)
	Load (kg)	69	678	17	-22	742	Computed (load at S9 - loads at u/s stations & add)
Discharge from Husky SW Adit	Flow (1000 m ³)	26	26	26	26	104	Average of measured flows (UKHM/LES data)
	Concentration (mg/L)	0.7	0.7	0.7	0.7	0.7	Average observed concentration at LES-14
	Load (kg)	18	18	18	18	73	Computed (flow times concentration)
Flow from outlet of Element 6 (both decant and seepage)	Flow (1000 m ³)	37	424	221	92	774	From Element 6
	Concentration (mg/L)	0.16	0.63	0.04	0.12	0.38	From Element 6
	Load (kg)	6	267	9	11	293	From Element 6
Flow from outlet of Element 7 (i.e., flow at Station LES-47)	Flow (1000 m ³)	131	1494	777	325	2727	From Element 7
	Concentration (mg/L)	0.35	0.35	0.35	0.35	0.35	From Element 7
	Load (kg)	46	523	272	114	954	From Element 7
Flow from outlet of Element 8 (i.e., flow at Station LES-57)	Flow (1000 m ³)	170	1465	777	352	2764	From Element 8
	Concentration (mg/L)	0.02	0.02	0.02	0.02	0.02	From Element 8
	Load (kg)	3	29	16	7	55	From Element 8
Totals	Flow (1000 m ³)	618	6316	3313	1426	11674	Computed (total of all inflows to element)
	Concentration (mg/L)	0.23	0.24	0.1	0.09	0.18	Computed (load divided by flow)
	Load (kg)	142	1516	331	128	2118	Computed load at Station S9
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station S9	Flow (1000 m ³)	618	6316	3313	1426	11674	Computed (total of all inflows to element)
	Concentration (mg/L)	0.23	0.24	0.1	0.09	0.18	Avg. observed concentrations for period 1990-1995
	Load (kg)	142	1516	331	128	2118	Computed (flow times concentration)

Element 10, South McQuesten River between Stations S11 and S10							Zinc (total)
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Runoff from incremental catchment	Flow (1000 m ³)	230	2622	1363	569	4784	Estimated using regional hydrology study
	Concentration (mg/L)	0.3	1.5	0.5	0.02	1.0	Computed (load divided by flow)
	Load (kg)	65	3867	667	11	4611	Computed (load at S11 - loads at u/s stations)
Flow from outlet of Element 5 (i.e., flow at Station S10)	Flow (1000 m ³)	6136	68862	35888	15049	125934	From Element 5
	Concentration (mg/L)	0.08	0.08	0.04	0.07	0.07	From Element 5
	Load (kg)	491	5509	1436	1053	8489	From Element 5
Flow from outlet of Element 9 (i.e., flow at Station S9)	Flow (1000 m ³)	618	6316	3313	1426	11674	From Element 9
	Concentration (mg/L)	0.23	0.24	0.1	0.09	0.18	From Element 9
	Load (kg)	142	1516	331	128	2118	From Element 9
Totals	Flow (1000 m ³)	6983	77800	40564	17044	142391	Computed (total of all inflows to element)
	Concentration (mg/L)	0.1	0.14	0.06	0.07	0.11	Computed (load divided by flow)
	Load (kg)	698	10892	2434	1193	15217	Computed load at Station S11
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station S11	Flow (1000 m ³)	6983	77800	40564	17044	142391	Computed (total of all inflows to element)
	Concentration (mg/L)	0.1	0.14	0.06	0.07	0.11	Avg. observed concentrations for period 1990-1995
	Load (kg)	698	10892	2434	1193	15217	Computed (flow times concentration)

Element 11, South McQuesten River between Stations LES-5 and S11							Zinc (total)
INFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Runoff from incremental catchment	Flow (1000 m ³)	912	10412	5415	2261	19000	Estimated using regional hydrology study
	Concentration (mg/L)	-1	-1	0	0	-1	Computed (load divided by flow)
	Load (kg)	-528	-9961	-1949	-775	-13213	Computed (load at LES-5 minus loads at u/s stns.)
Flow of Haldane Creek at Station LES-10	Flow (1000 m ³)	852	9732	5062	2113	17760	Estimated using regional hydrology study
	Concentration (mg/L)	0.005	0.005	0.005	0.005	0.005	One grab sample taken in July 1994
	Load (kg)	4	49	25	11	89	Computed (flow times concentration)
Flow from outlet of Element 10 (i.e., flow at Station S11)	Flow (1000 m ³)	6983	77800	40564	17044	142391	From Element 10
	Concentration (mg/L)	0.1	0.14	0.06	0.07	0.11	From Element 10
	Load (kg)	698	10892	2434	1193	15217	From Element 10
Totals	Flow (1000 m ³)	8748	97945	51040	21419	179151	Computed (total of all inflows to element)
	Concentration (mg/L)	0.02	0.01	0.01	0.02	0.01	Computed (load divided by flow)
	Load (kg)	175	979	510	428	2093	Computed load at Station LES-5
OUTFLOWS		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Total	Source of Data/ Comment
Flow at Station LES-5	Flow (1000 m ³)	8748	97945	51040	21419	179151	Computed (total of all inflows to element)
	Concentration (mg/L)	0.02	0.01	0.01	0.02	0.01	Average of 6 grab samples taken by EPS and LES
	Load (kg)	175	979	510	428	2093	Computed (flow times concentration)

Supplementary Stations

Estimates of Average Flow, SO₄ Load, and T Zn Load at "Supplementary" Stations

Station	Catchment Area (km ²)	Catchment Median Elevation (m.a.s.l.)	Estimated Mean Annual Runoff		Average SO ₄ Concentration (mg/L)	Estimated Avg. Annual SO ₄ Load (tonnes)	Average T Zn Concentration (mg/L)	Estimated Avg. Annual T Zn Load (kg)
			(mm)	(m ³ /s)				
Erickson Gulch at LES-34	4.7	1460	370	0.055	40	70	0.07	122
Star Creek at LES-76	1.5	1140	280	0.013	200	84	0.02	8
Porcupine Gulch at LES-67	1.9	1270	320	0.019	140	85	0.007	4
Brefalt Creek at LES-45	2.3	1100	270	0.020	620	385	0.1	62
Flat Creek at LES-8	3.7	1200	300	0.035	45	50	0.008	9
Flat Creek at LES-46 (total)	5.4	1090	270	0.046	140	204	0.07	102
Galena Creek at LES-11	8.3	1000	240	0.063	50	100	0.017	34
Porcupine Diversion at LES-51	2.2	1200	300	0.021	540	356	1	660
Lightning Creek above LES-37	28.9	1450	360	0.330	25	260	0.008	83
Hope Gulch above LES-48	4.9	1550	390	0.061	75	143	0.2	382
Thunder Gulch above LES-52	14.8	1400	350	0.164	30	155	0.03	155
Lightning Creek above LES-41 (total)	60.2	1400	350	0.668	40	843	0.05	1054

Estimates of Average Flow, SO₄ Load, and T Zn Load at Adits Outside of South McQuesten River Watershed

Adit	Item	Period					Source of Data/ Comment
		Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Annual	
Bellekeno 600	Flow (1000 m ³)	16	16	20	20	71	Average of measured flows (UKHM/Govt/LES data)
	SO ₄ Concentration (mg/L)	540	540	540	540	540	Average observed concentration at LES-39
	SO ₄ Load (tonnes)	8	8	11	11	38	Computed (flow times concentration)
	T Zn Concentration (mg/L)	4.4	4.4	4.4	4.4	4.4	Average observed concentration at S12/LES-39
	T Zn Load (kg)	69	69	87	87	313	Computed (flow times concentration)
Keno 700	Flow (1000 m ³)	2	28	24	12	66	Average of measured flows (UKHM/Govt/LES data)
	SO ₄ Concentration (mg/L)	170	170	170	170	170	Average observed concentration at LES-38
	SO ₄ Load (tonnes)	0.4	5	4	2	11	Computed (flow times concentration)
	T Zn Concentration (mg/L)	0.5	1	0.8	0.5	0.8	Average observed concentration at S6/LES-38
	T Zn Load (kg)	1	28	19	6	54	Computed (flow times concentration)
Lucky Queen	Flow (1000 m ³)	7	7	7	7	28	Average of measured flows (UKHM/Govt data)
	SO ₄ Concentration (mg/L)	#N/A	#N/A	#N/A	#N/A	#N/A	No data available
	SO ₄ Load (tonnes)	#N/A	#N/A	#N/A	#N/A	#N/A	Computed (flow times concentration)
	T Zn Concentration (mg/L)	0.15	0.15	0.15	0.15	0.15	Average observed concentration at S14
	T Zn Load (kg)	1	1	1	1	4	Computed (flow times concentration)
Sadie Ladue	Flow (1000 m ³)	70	86	87	87	332	Average of measured flows (UKHM/Govt/LES data)
	SO ₄ Concentration (mg/L)	80	80	80	80	80	Average observed concentration at LES-35
	SO ₄ Load (tonnes)	6	7	7	7	27	Computed (flow times concentration)
	T Zn Concentration (mg/L)	0.2	0.9	0.3	0.3	0.4	Average observed concentration at S7/LES-35
	T Zn Load (kg)	14	78	26	26	144	Computed (flow times concentration)