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January 22, 2004

Government of Yukon
Energy, Mines and Resources K-10
Mineral Management Branch
Box 2703
Whitehorse, YT Y1A 2C6

Attn: Mr. Bill Dunn, P.Eng., Yukon Government Project Manager, Operation and Maintenance of Environmental Control Facilities Keno Hill Mining Properties

Dear Mr. Dunn:

Re: Galkeno 300 Fugitive Flow Investigation

The attached documents outline results of the December 11, and 17, 2003 sampling event as well as subsequent sampling conducted on January 5 and 6, 2004 by Access Consulting Group to track the environmental effects of the Galkeno 300 adit flow on Christal Creek and the South McQuesten River.

On December 11, 2003, R. McIntyre traced the Galkeno 300 flow from the adit, to Christal Creek. Sample results, as depicted on Figure 2, indicated that water quality impacts were measurable in Christal Creek.

On December 17, 2003 T. Ritchie performed sampling at Keno Hill with the purpose of following up on the December 11 sampling event. Water samples were collected at the Galkeno 300 adit, the Silver Trail Highway, Culvert #5 (See Figure 1), and this flow was traced to Christal Creek. An additional water quality sample was collected before the seep entered Christal Creek. Water quality samples were collected in Christal Creek and the South McQuesten River receiving waters. These sites are listed in Table 1 and shown in Figure 2. Mr. Ritchie was accompanied by G. Ewing to the various sample stations, which were accessed either by foot, automobile or snowmobile.

Samples from this event were analyzed for total zinc at the on site laboratory (Table 1) while duplicates were sent to Norwest Labs for analysis of total and dissolved metals and routine parameters. Two samples were collected from Christal Creek at Hanson Lake Road and Culvert #5 at the Highway for LC₅₀ bioassay testing. Lab results for the December 17, 2003 sampling event indicate that the rainbow trout 96 hour LC₅₀ bioassay was nontoxic at Christal Creek at the Hanson Lake road (Sample 1093920) and toxic (LC₅₀ bioassay at 4 hours, Sample 1093926) at the highway Culvert #5. Norwest Labs results are attached. A comparison of these zinc water

quality results with the previous Laberge Environmental sampling from August 2003 can be observed in Table 1 and in the corresponding graph presented in Figure 1. Table 1 also compares the total zinc concentrations obtained at the internal Elsa lab with results obtained from Norwest Labs. The results from the two labs are not identical, but do appear to have a strong correlation and provide a measure of quality assurance for the on site lab results. Additional parameter analysis for this sampling event can be observed in Table 2. The CCME Guidelines for freshwater aquatic life are also provided in Table 2 to compare the guideline levels and determine parameters that are being exceeded. Parameters that have been exceeded for nearly every station include total and dissolved cadmium and zinc. Flow from the Galkeno 300 adit also exceeded levels for copper, iron, lead, nickel, selenium and arsenic. The sample station in Christal Creek upstream of Keno Road (ACG-WQ-05) exceeded copper guidelines in December. Total lead was exceeded at Sites A, B and D while total nickel was exceeded at Culvert #2 in January. Total selenium was exceeded at Sites B and C, and at LES 01 in December.

The January 5 and 6, 2004 sampling event was conducted by R. McIntyre and D. Cornett with the intent to verify water quality station locations and collect additional samples, including duplicate samples sent to Norwest Labs and the internal Elsa lab. Water quality station locations were verified and weekly monitoring stations established. One sample was collected at Culvert #2 for LC₅₀ bioassay testing. Lab results indicate that the rainbow trout 96 hour LC₅₀ bioassay was toxic at this site (Sample 1097729). Norwest Labs results are attached. Total zinc results from the on site laboratory and Norwest Labs are shown in Table 1. Additional parameter analysis for this sampling event can be observed in Table 2. Figure 2 shows the monitoring stations that will be sampled for on site zinc analysis, on a weekly basis, as well as a summary of water quality zinc levels obtained at these stations to date.

We trust that this provides a summary of the most recent sampling events.

If you have any questions please contact the undersigned at 668-6463.

Sincerely,

ACCESS CONSULTING GROUP

A registered trade name for Access Mining Consultants Ltd.

Dan Cornett, B. Sc., P. Biol., CCEP.
Principal

Attachments:

- Table 1: Comparison of Results of Receiving Environment Sampling of Christal Creek and McQuesten River (1 page)
- Figure 1: Comparison of Receiving Water Quality Sampling Conducted On Two Occasions in 2003 Around the Keno Hill Mining Property With the CCME Guideline For Total Zinc For The Protection of Freshwater Aquatic Life (1 page)
- Table 2: Galkeno 300 and Downstream Monitoring of Receiving Environment Water Quality (2 pages)
- Figure 2: Galkeno 300 Fugitive Flow – Christal Creek Zinc Levels Winter 2003/2004 (11x17 map)
- Integrated Resource Consultants Inc. Bioassay Results from December 17, 2003 Sampling Event (3 pages)
- Integrated Resource Consultants Inc. Detailed Bioassay Report for Sample 1093920 (4 pages)
- Norwest Labs Results from December 17, 2003 Sampling (Report #499529) (18 pages)
- Integrated Resource Consultants Inc. Bioassay Results from January 5 and 6, 2004 Sampling Event (1 page)
- Norwest Labs Results from January 5 and 6, 2004 Sampling Event (Report #501907) (8 pages)

Copy to: Heather Saggars – Acting President
Nacho Nyak Dun Development Corporation

Frank Patch - Water Inspection Officer
Government of Yukon, Department of Environment

Receiving Environment Water Quality Results - Keno Hill, Yukon

Table 1: Comparison of Results of Receiving Environment Sampling of Christal Creek and McQuesten River

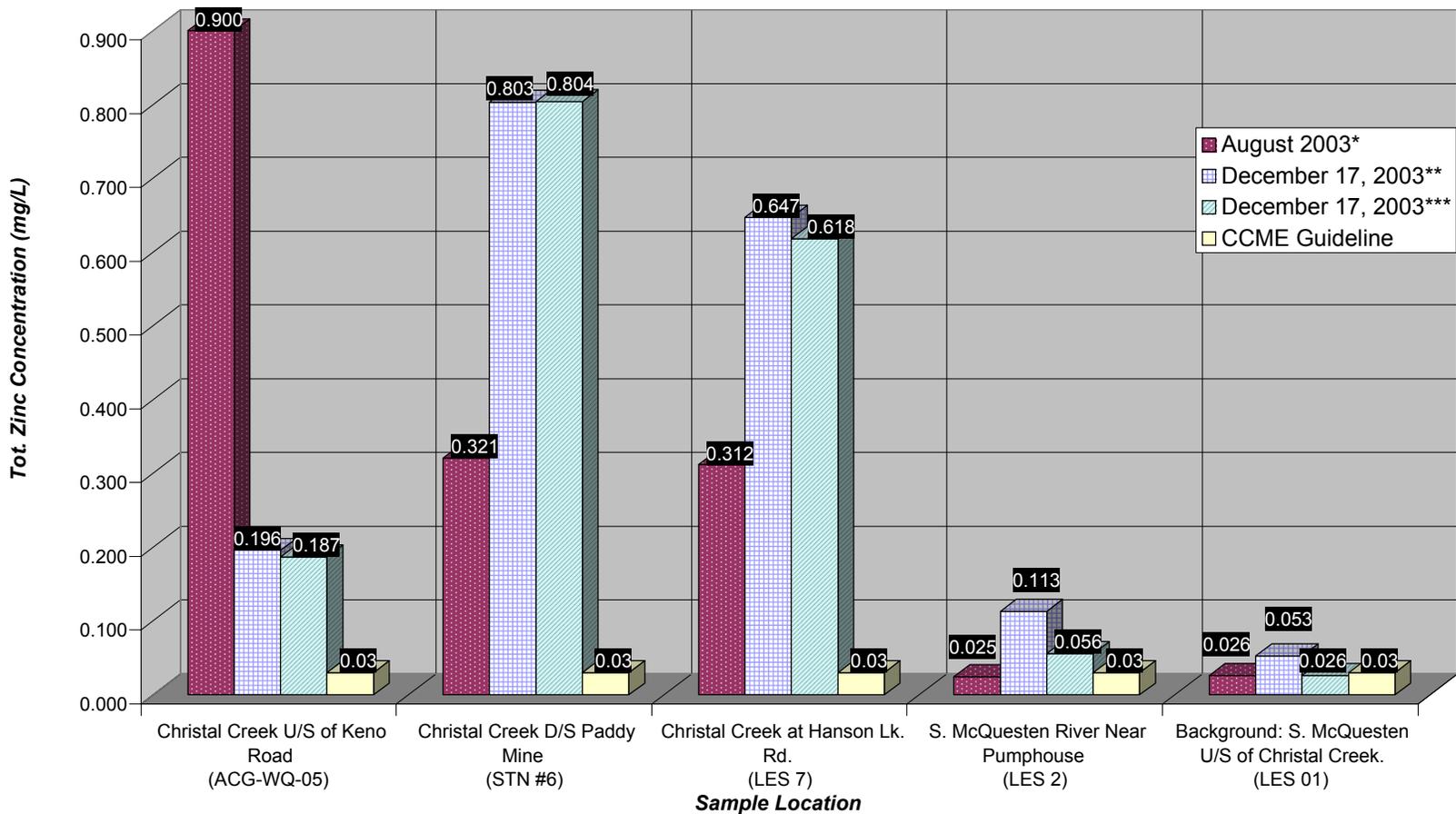
Sample Location	Total Zinc Concentration (mg/L)			96 Hr LT ₅₀ Bioassay	Total Zinc Concentration (mg/L)		96 Hr LT ₅₀ Bioassay	CCME Guideline for the Protection of Aquatic Life (Total Zinc in mg/L)
	August 2003*	December 17, 2003**	December 17, 2003***	December 17, 2003***	January 5-6, 2004**	January 5-6, 2004***	January 5-6, 2004***	
Galkeno 300 Adit (LES 32)	40.400	89.300	116.000	-	-	123.000	-	0.030
Christal Creek U/S of Keno Road (ACG-WQ-05)	0.900	0.196	0.187	-	-	-	-	
Galkeno 300 Flow at Silver Trail Highway Culvert #5 (ACG-WQ-10)	-	46.900	56.300	toxic	-	-	-	
G300 Flow at Silver Trail Highway Culvert #2	-	-	-	-	69.100	82.900	toxic	
Christal Creek U/S of Silver Trail Highway Culverts #4&5 Flows (Site A)	-	-	-	-	2.370	2.900	-	
Christal Creek 50 m D/S ACG-WQ-11 (Site D)	-	-	-	-	3.160	3.050	-	
Christal Creek 50 m U/S ACG-WQ-11 (Site B)	-	1.440	1.500	-	2.300	2.830	-	
Galkeno 300 Flow from Highway Culvert #5, 1 m U/S of Entry to Christal Creek (ACG-WQ-11 / Site C)	-	1.170	1.510	-	6.400	6.410	-	
Erickson Creek (50 m D/S ACG-WQ-11)	-	0.110	<0.001	-	-	-	-	
Christal Creek 50 m D/S of Erickson Creek (100 m D/S ACG-WQ-11)	-	1.530	1.270	-	-	-	-	
Christal Creek D/S Paddy Mine (STN #6)	0.321	0.803	0.804	-	-	-	-	
Christal Creek at Hanson Lk. Rd. (LES 7)	0.312	0.647	0.618	non-toxic	-	-	-	
S. McQuesten River Near Pumphouse (LES 2)	0.025	0.113	0.056	-	-	-	-	
Background: S. McQuesten U/S of Christal Creek. (LES 01)	0.026	0.053	0.026	-	-	-	-	

* Lebarge Environmental Services Sampling Event With Off-Site Laboratory Analysis

** ACG Sampling Event With On Site Laboratory Zinc Analysis. Duplicate Samples with ***

*** ACG Sampling Event With Norwest Labs

Figure 1: Comparison of Receiving Environment Water Quality Sampling Conducted On Two Occasions in 2003 Around the Keno Hill Minin^g Property With The CCME Guideline For Total Zinc For The Protection of Freshwater Aquatic Life



Note: Galkeno 300 Adit Discharge Water Results Are Not Presented In The Figure

Table 2: Galkeno 300 and Downstream Monitoring of Receiving Environment Water Quality

Location Description	Galkeno 300 Adit		G300 Flow at Silver Trail Highway Culvert #5	G300 Flow from Highway Culvert #5, 1 m U/S of Entry to Christal Creek		G300 Flow at Silver Trail Highway	Christal Creek U/S of Keno Road	Christal Creek U/S of Silver Trail Highway Culverts #4&5 Flows	Christal Creek 50 m U/S ACG-WQ-11		Christal Creek 50 m D/S ACG-WQ-11	Erikson Creek	Christal Creek 50 m D/S of Erikson Creek	Christal Creek D/S Paddy Mine	Christal Creek at Hanson Lk. Rd.	S. McQuesten U/S of Christal Creek	S. McQuesten River Near Pumphouse	Detection Limit	CCME Guidelines	
	Sampler	TR	RM, DC	TR	TR	RM, DC	RM, DC	TR	RM, DC	TR	RM, DC	RM, DC	TR	TR	TR	TR	TR			TR
	Station ID	LES-32		ACG-WQ-10	ACG-WQ-11 Site C		Culvert #2	ACG-WQ-05	Site A	Site B		Site D	ACG-WQ-11 (50m D/S)	ACG-WQ-11 (100m D/S)	STN-06	LES-07	LES-01			LES-02
Lab Lot ID ¹	277393-3	278591-6	277393-6	277393-8	278591-3	278591-5	277393-7	278591-1	277393-10	278591-2	278591-4	277393-9	277393-11	277393-4	277393-2	277393-5	277393-1			
Date	17-Dec-03	06-Jan-04	17-Dec-03	17-Dec-03	05-Jan-04	05-Jan-04	17-Dec-03	05-Jan-04	17-Dec-03	05-Jan-04	05-Jan-04	17-Dec-03	17-Dec-03	17-Dec-03	17-Dec-03	17-Dec-03	17-Dec-03			
Parameter ²																				
Dissolved Metals (Trace)																				
Aluminum	0.03	-	<0.01	<0.01	-	-	<0.01	-	<0.01	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.005-0.1	
Antimony	<0.02	-	0.04	<0.02	-	-	<0.02	-	<0.02	-	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02		
Arsenic	<0.02	-	<0.02	<0.02	-	-	<0.02	-	<0.02	-	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02	0.005	
Barium	0.0043	-	0.018	0.0245	-	-	0.0625	-	0.0548	-	-	0.0755	0.0575	0.0502	0.0496	0.0527	0.0605	0.0005		
Beryllium	<0.0006	-	<0.0006	<0.0006	-	-	<0.0006	-	<0.0006	-	-	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.0005		
Bismuth	<0.02	-	<0.02	<0.02	-	-	<0.02	-	<0.02	-	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02		
Cadmium	0.213	-	0.0444	0.0016	-	-	0.0011	-	0.002	-	-	<0.0006	0.0014	0.0008	0.0006	<0.0006	<0.0006	0.0005	0.000017	
Calcium	152	-	257	277	-	-	140	-	147	-	-	49.7	120	110	107	46.5	52	0.01		
Chromium	0.009	-	0.007	<0.001	-	-	<0.001	-	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001		
Cobalt	0.087	-	<0.001	<0.001	-	-	<0.001	-	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001		
Copper	<0.001	-	<0.001	<0.001	-	-	0.005	-	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.001	0.002-0.004	
Iron	21.7	-	<0.002	<0.002	-	-	0.023	-	0.028	-	-	0.005	0.019	0.012	<0.002	0.037	0.032	0.002	0.3	
Lead	0.014	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	0.001-0.007	
Lithium	0.02	-	0.018	0.014	-	-	0.005	-	0.005	-	-	0.005	0.005	0.005	<0.005	<0.005	<0.005	0.005		
Magnesium	34.9	-	44.8	53	-	-	21.8	-	22.7	-	-	9.99	21.4	21.7	21.1	14.5	15.3	0.01		
Manganese	86.2	-	50.4	0.0575	-	-	0.822	-	2.61	-	-	0.0315	2.06	1.21	0.821	0.0459	0.0596	0.0005		
Molybdenum	<0.01	-	<0.01	<0.01	-	-	<0.01	-	<0.01	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.073	
Nickel	0.33	-	0.144	<0.001	-	-	<0.001	-	0.002	-	-	<0.001	0.001	<0.001	<0.001	0.002	0.003	0.001	0.025-0.15	
Phosphorus	<0.06	-	<0.06	<0.06	-	-	<0.06	-	<0.06	-	-	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	0.05		
Potassium	0.6	-	<0.3	<0.3	-	-	0.7	-	<0.3	-	-	<0.3	0.4	<0.3	0.4	0.4	0.7	0.3		
Selenium	0.02	-	<0.02	<0.02	-	-	<0.02	-	<0.02	-	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02	0.001	
Silicon	4.5	-	5.7	4.8	-	-	4	-	3.9	-	-	2.8	3.7	3.6	3.5	2.3	2.5	0.05		
Silver	<0.002	-	<0.002	<0.002	-	-	<0.002	-	<0.002	-	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	0.0001	
Sodium	1.55	-	1.69	1.86	-	-	1.99	-	1.55	-	-	0.96	1.57	1.5	1.5	2.18	2.19	0.05		
Strontium	0.214	-	0.4	0.53	-	-	0.206	-	0.235	-	-	0.14	0.22	0.22	0.211	0.194	0.187	0.005		
Sulphur	330	-	320	310	-	-	95.7	-	107	-	-	21.1	90.1	79.2	75.8	21.9	24.6	0.2		
Thorium	<0.005	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005		
Tin	0.02	-	0.026	0.04	-	-	0.022	-	0.019	-	-	<0.005	0.016	0.01	0.009	0.008	<0.005	0.005		
Titanium	<0.001	-	<0.001	<0.001	-	-	<0.001	-	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001		
Uranium	<0.06	-	<0.06	<0.06	-	-	<0.06	-	<0.06	-	-	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	0.06		
Vanadium	<0.001	-	<0.001	<0.001	-	-	<0.001	-	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001		
Zinc	77	-	53.8	1.5	-	-	0.185	-	1.47	-	-	<0.001	1.24	0.78	0.593	0.024	0.049	0.001	0.03	
Zirconium	<0.005	-	<0.005	<0.005	-	-	<0.005	-	<0.005	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005		
Total Metals (Trace)																				
Aluminum	0.07	0.052	0.01	<0.01	<0.005	0.073	0.07	0.038	0.03	0.047	0.027	<0.01	0.02	<0.01	0.02	0.03	0.03	0.01	0.005-0.1	
Antimony	<0.02	0.0005	0.06	0.03	<0.0002	<0.0002	<0.02	0.0005	<0.02	0.0004	0.0004	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02		
Arsenic	0.07	0.133	<0.02	<0.02	0.0005	0.0007	<0.02	0.0037	<0.02	0.0035	0.0029	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02	0.005	
Barium	0.0043	0.007	0.0182	0.0248	0.038	0.045	0.0631	0.075	0.057	0.073	0.072	0.0762	0.06	0.0522	0.0521	0.0551	0.0619	0.0005		
Beryllium	<0.0006	<0.0001	<0.0006	<0.0006	<0.0001	<0.0001	<0.0006	<0.0001	<0.0006	<0.0001	<0.0001	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.0005		
Bismuth	<0.02	<0.0005	<0.02	<0.02	<0.0005	<0.0005	<0.02	<0.0005	<0.02	<0.0005	<0.0005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02		
Boron	-	0.018	-	-	0.003	0.003	-	0.005	-	0.002	0.002	-	-	-	-	-	-	0.002		
Cadmium	0.223	0.25	0.0449	0.0017	0.0104	0.115	0.0011	0.00533	0.0023	0.00548	0.00565	<0.0006	0.0018	0.0011	0.0014	<0.0006	<0.0006	0.0005	0.000017	
Calcium	189	187	271	340	359	247	141	150	149	150	163	50.2	141	112	111	47.1	52.6	0.01		
Chromium	0.016	<0.0005	0.008	<0.001	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001		
Cobalt	0.094	0.0846	0.001	<0.001	<0.0001	0.0187	<0.001	0.0011	<0.001	0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001		
Copper	<0.001	0.001	<0.001	<0.001	0.001	0.002	0.006	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.002	<0.001	0.003	0.004	0.001	0.002-0.004	
Iron	23.6	23	<0.002	<0.002	<0.1	<0.1	0.163	0.3	0.278	0.3	0.2	0.036	0.241	0.089	0.07	0.134	0.134	0.002	0.3	
Lead	<0.006	0.0139	<0.006	<0.006	0.0004	0.0009	0.007	0.0127	<0.006	0.0123	0.0097	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	0.005	0.001-0.007	
Lithium	0.02	0.024	0.018	0.014	0.029	0.027	0.007	0.011	0.006	0.012	0.013	<0.006	0.006	0.006	<0.006	<0.006	<0.006	0.005		
Magnesium	38.6	40.3	47.1	54.9	58.3	48.4	22	28	22.9	26.6	29	10.1	21.8	22	21.9	14.7	15.6	0.01		
Manganese	154	159	52.7	0.0592	2.95	122	0.83	4.46	2.63	4.47	4.4	0.0364	2.11	1.24	0.858	0.048	0.0709	0.0005		
Molybdenum	<0.01	<0.001	<0.01	<0.01	<0.001	<0.001	<0.01	<0.001	<0.01	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.073	
Nickel	0.349	0.299	0.146	<0.001	0.0172	0.228	0.002	0.013	0.002	0.0136	0.0132	<0.001	0.001	0.001	<0.001	0.004	0.003	0.001	0.025-0.15	
Phosphorus	<0.06	0.08	<0.06	<0.06	<0.05	<0.05	<0.06	<0.05	<0.06	<0.05	<0.05	<0.06	<0.06	<						

Table 2: Galkeno 300 and Downstream Monitoring of Receiving Environment Water Quality

Location Description	Galkeno 300 Adit		G300 Flow at Silver Trail Highway Culvert #5	G300 Flow from Highway Culvert #5, 1 m U/S of Entry to Christal Creek		G300 Flow at Silver Trail Highway	Christal Creek U/S of Keno Road	Christal Creek U/S of Silver Trail Highway Culverts #4&5 Flows	Christal Creek 50 m U/S ACG-WQ-11		Christal Creek 50 m D/S ACG-WQ-11	Erikson Creek	Christal Creek 50 m D/S of Erikson Creek	Christal Creek D/S Paddy Mine	Christal Creek at Hanson Lk. Rd.	S. McQuesten U/S of Christal Creek	S. McQuesten River Near Pumphouse	Detection Limit	CCME Guidelines
	Sampler	TR	RM, DC	TR	TR	RM, DC	RM, DC	TR	RM, DC	TR	RM, DC	RM, DC	TR	TR	TR	TR	TR		
Station ID	LES-32		ACG-WQ-10	ACG-WQ-11 Site C		Culvert #2	ACG-WQ-05	Site A	Site B		Site D	ACG-WQ-11 (50m D/S)	ACG-WQ-11 (100m D/S)	STN-06	LES-07	LES-01	LES-02		Water: Freshwater Aquatic Life
Lab Lot ID ¹	277393-3	278591-6	277393-6	277393-8	278591-3	278591-5	277393-7	278591-1	277393-10	278591-2	278591-4	277393-9	277393-11	277393-4	277393-2	277393-5	277393-1		
Date	17-Dec-03	06-Jan-04	17-Dec-03	17-Dec-03	05-Jan-04	05-Jan-04	17-Dec-03	05-Jan-04	17-Dec-03	05-Jan-04	05-Jan-04	17-Dec-03	17-Dec-03	17-Dec-03	17-Dec-03	17-Dec-03	17-Dec-03		
Total Metals (Trace) (Cont'd)																			
Selenium	0.02	<0.0002	<0.02	0.03	0.0003	<0.0002	<0.02	0.0009	0.06	0.001	0.0008	<0.02	<0.02	<0.02	<0.02	0.02	<0.02	0.02	0.001
Silicon	4.8	4.02	5.8	4.9	4.43	3.79	4.1	3.36	4.1	3.54	3.06	2.8	3.9	3.8	3.8	2.5	2.6	0.05	
Silver	<0.002	<0.0001	<0.002	<0.002	<0.0001	<0.0001	<0.002	<0.0001	<0.002	<0.0001	<0.0001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	0.0001
Sodium	1.62	1.8	1.71	1.88	1.9	1.9	2.01	2	1.57	1.6	1.7	0.97	1.59	1.57	1.51	2.21	2.44	0.05	
Strontium	0.217	0.216	0.404	0.536	0.692	0.394	0.208	0.28	0.238	0.281	0.308	0.141	0.23	0.226	0.224	0.203	0.189	0.005	
Sulphur	337	325	330	327	331	341	96.7	114	108	111	124	21.3	100	82.6	81.2	22.4	24.9	0.2	
Thallium	-	0.00138	-	-	<0.00005	<0.00005	-	<0.00005	-	<0.00005	<0.00005	-	-	-	-	-	-	0.00005	
Thorium	<0.006	-	<0.006	<0.006	-	-	<0.006	-	<0.006	-	-	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	0.005	
Tin	0.02	<0.001	0.028	0.047	<0.001	<0.001	0.022	<0.001	0.022	<0.001	<0.001	<0.006	0.017	0.019	0.009	0.008	0.02	0.005	
Titanium	<0.001	0.0101	<0.001	<0.001	0.0173	0.0173	<0.001	0.007	<0.001	0.0071	0.0077	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	
Uranium	<0.07	<0.0005	<0.07	<0.07	<0.0005	<0.0005	<0.07	0.0072	<0.07	0.0069	0.007	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	0.06	
Vanadium	<0.001	<0.0001	<0.001	<0.001	<0.0001	0.0002	<0.001	0.0002	<0.001	0.0002	0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	
Zinc	116	123	56.3	1.51	6.41	82.9	0.187	2.9	1.5	2.83	3.05	<0.001	1.27	0.804	0.618	0.026	0.056	0.001	0.03
Zirconium	<0.006	<0.001	<0.006	<0.006	<0.001	<0.001	<0.006	<0.001	<0.006	<0.001	<0.001	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	0.005	
Physical and Aggregate Properties																			
Total Suspended Solids	30	31	<2	<2	<2	6	<2	3	6	-	3	<2	4	<2	<2	<2	<2	1	
Temp. of Observed pH and EC (°C)	-	18.1	-	-	17.9	18.1	-	18	-	-	17.7	-	-	-	-	-	-	-	
Routine Water																			
pH	6.4	6.43	6.3	7.2	6.93	6.58	7.3	7.35	7.5	-	7.47	7.8	7.7	8	8	7.6	8	0.1	
Electrical Conductivity (µS/cm at 25C)	1700	1580	1700	1780	1660	1690	840	884	890	-	844	370	840	770	760	400	425	1	
Calcium (Dissolved)	-	179	-	-	361	238	-	150	-	-	157	-	-	-	-	-	-	0.2	
Magnesium (Dissolved)	-	38.2	-	-	58.3	47.2	-	26.9	-	-	28.2	-	-	-	-	-	-	0.2	
Sulphate (SO4 Dissolved)	990	969	960	931	981	1020	287	340	320	-	365	63.4	270	238	227	65.7	73.9	0.2	
Hydroxide	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<5	<5	<5	<5	<5	<5	5	
Carbonate	<6	<6	<6	<6	<6	<6	<6	<6	<6	-	<6	<6	<6	<6	<6	<6	<6	6	
Bicarbonate	35	57	18	70	49	16	126	169	168	-	165	138	161	181	181	158	138	5	
P-Alkalinity (as CaCO3)	-	<5	-	-	<5	<5	-	<5	-	-	<5	-	-	-	-	-	-	5	
T-Alkalinity (as CaCO3)	29	47	14	58	40	14	103	138	138	-	136	113	132	148	148	130	113	5	
Hardness (Dissolved as CaCO3)	523	603	827	910	1140	789	438	484	461	-	508	165	388	364	355	176	193	1	

Notes:
¹ All analysis conducted by Norwest Labs
² All units are in mg/L unless otherwise indicated

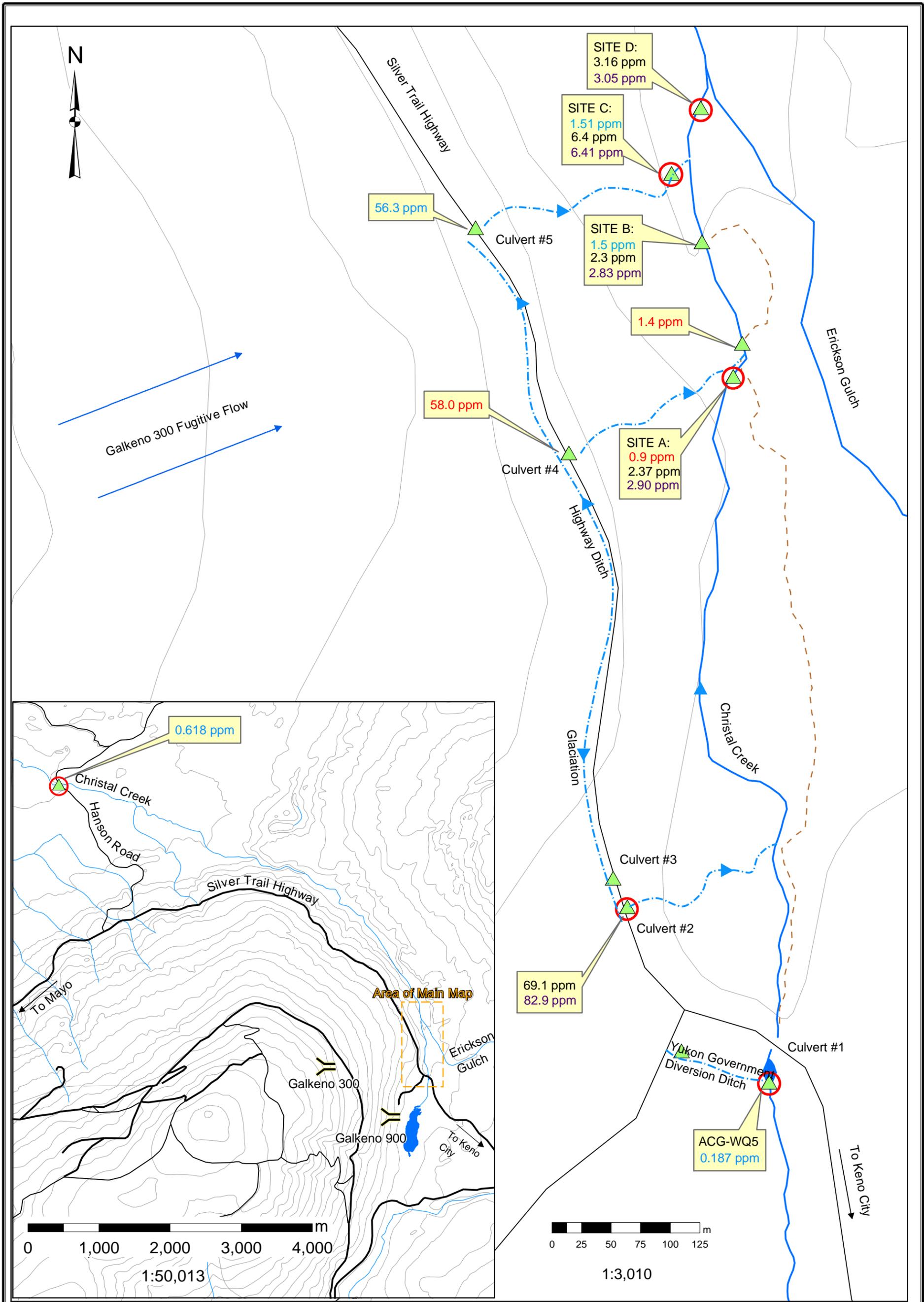


Figure 2.
Galkeno 300
Fugitive Flow
Christal Creek
Zinc Levels
Winter 2003/2004

- Topographical Contours
- Roads
- Snow Machine Trail
- Creeks
- Intermittent Flow
- Water Quality Sample Sites
- Weekly Water Quality Sample Sites

Zinc Levels
 December 11, 2003 *
 1.4 ppm
 December 17, 2003 **
 1.5 ppm
 January 5/6, 2004 *
 2.3 ppm
 January 5/6, 2004 **
 2.83 ppm

* Tested at internal lab
 ** Tested at Norwest Labs

Drawn by: PI Checked by: DDC
 Date: Jan 20, 2003
Our File: D:\Project\NND-03-05\ArcMap\mxd\GK300FF_05Jan04ZnLevels.mxd

JAN-09-2004 14:47

IRC INTEGRATED RESOURCE

P. 01/03

IRC

Richmond, B.C.
 V6V 1L4 Canada
 Tel: (604) 278-7714
 Fax: (604) 278-7741
 email: irc@mindlink.bc.ca

Integrated Resource Consultants Inc.

Fax Cover Sheet

DATE: 9 January 2004
 TO: Tracy
 Norwest Labs
 FROM: Marian Zazzi
 IRC Integrated Resource Consultants Inc.
 RE: BIOASSAY RESULT

Number of pages including cover sheet: 3

SAMPLE NAME:	1093920; Lot # 277393
SAMPLE DATE:	17 December 2003
DATE RECEIVED:	30 December 2003; 1420 hrs.
ANALYSIS:	Rainbow trout 96 hour toxicity - LC50
96 HOUR RESULT:	The 96 hour (static) LT_{50} was greater than 96 hours. 0% trout mortality in undiluted sample

$[Zn] = 0.618 \text{ mg/L}$
 Crystal Creek
 @ Hansen Rd.
 LES-07

SAMPLE NAME:	1093926; Lot # 277393
SAMPLE DATE:	17 December 2003
DATE RECEIVED:	30 December 2003; 1420 hrs.
ANALYSIS:	Rainbow trout 96 hour toxicity - LC50
96 HOUR RESULT:	The 96 hour (static) LT_{50} was 4 hours, with a 95% confidence interval between 0.5 and 24 hours. 100% trout mortality in undiluted sample

AGG-WQ-10
 Culvert @ Hwy.
 $[Zn] = 56.3 \text{ mg/L}$

Please call should you have any questions
 Full reports to follow in the mail. Note the protocol deviations in the pages following.

This fax is confidential. Use of this facsimile by anyone other than the intended recipient is prohibited. If you have received this facsimile in error, please call us at 278-7714. Thank you.

JAN-09-2004 14:47

IRC INTEGRATED RESOURCE

P.03/03



Suite 160, 14480 River Road
Richmond, BC, Canada V6V 1L4
Tel. 604-278-7714 • Fax 604-278-7741
www.ircintegratedresource.com

8 January 2004

Norwest Labs
104-19575 55A Ave
Surrey, B.C. V3S 8P8

Attention: Frances Ellison

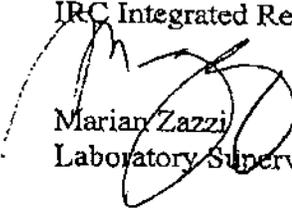
Reference: Rainbow Trout Bioassay Conducted on Sample "1093926".

Dear Ms. Ellison,

The "Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Rainbow Trout" EPS 1/RM/13, Second Edition – December 2000 states that any bioassay protocol deviations must be included with the test results report. In accordance with this, the following lists a test protocol deviation with the test conducted on your sample "1093926". The test protocol states that the maximum holding time prior to testing must not exceed 5 days; the sample had exceeded its' required holding time by 8 days. The client was advised of this protocol deviation and testing was proceeded with at the request of the client.

Should you have any questions regarding the above information please do not hesitate to call me at (604) 278-7714.

Regards,
IRC Integrated Resource Consultants Inc.



Marian Zazzi
Laboratory Supervisor

JAN-09-2004 14:47

IRC INTEGRATED RESOURCE

P.02/03



Suite 160, 14480 River Road
Richmond, BC, Canada V6V 1L4
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www.ircintegratedresource.com

8 January 2004

Norwest Labs
104-19575 55A Ave
Surrey, B.C. V3S 8P8

Attention: Frances Ellison

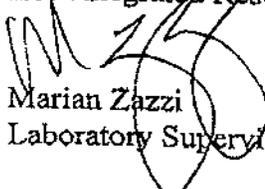
Reference: Rainbow Trout Bioassay Conducted on Sample "1093920".

Dear Ms. Ellison,

The "Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Rainbow Trout" EPS 1/RM/13, Second Edition – December 2000 states that any bioassay protocol deviations must be included with the test results report. In accordance with this, the following lists test protocol deviations with the test conducted on your sample "1093920". The test protocol states that fish loading density must not exceed 0.5 g/L in each test vessel. The test conducted on sample "1093920" had a fish loading density of 0.59 g/L, due to the limited amount of sample received. The sample had also exceeded its' required holding time of 5 days, by 8 days. The client was advised of these protocol deviations and testing was proceeded with at the request of the client.

Should you have any questions regarding the above information please do not hesitate to call me at (604) 278-7714.

Regards,
IRC Integrated Resource Consultants Inc.



Marian Zazzi
Laboratory Supervisor

JAN 14 2004



Integrated Resource Consultants Inc.

Suite 160, 14480 River Road
Richmond, BC, Canada V6V 1L4
Tel. 604-278-7714 • Fax 604-278-7741
www.ircintegratedresource.com
FILE:NORWEST\0312128.RTT

DATE: 8 January 2004

TO: Frances Ellison
Norwest Labs
104-19575 55A Ave
Surrey, B.C. V3S 8P8

REPORT ON: RAINBOW TROUT BIOASSAY RESULTS

SAMPLE DESCRIPTION:

IRC Sample ID No.:	0312128
Sample Name:	1093920; Lot # 277393
Date collected:	17 December 2003
Date, time received:	30 December 2003; 1420 hrs.
Collection Method:	Grab
Amount, Container:	1 x 11.5L of sample in 20litre plastic container
Physical description:	Clear colourless liquid
Date, time tested:	30 December 2003; 1655hrs.

RAINBOW TROUT 96 HR RESULTS:

The 96 hour (static) LT_{50} was greater than 96 hours.
0% trout mortality in 100% concentration

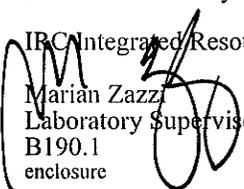
The LT_{50} is defined as the median lethal time or the time at which there is 50% fish mortality. Results are calculated using the method described by Stephan (Methods for calculating an LC_{50} in: Aquatic Toxicology and Hazard Evaluation, American Society for Testing and Materials, 1977).

The method used for this test was as per the IRC laboratory "Standard Operating Procedure for Rainbow Trout Holding and Testing" RTver5. This procedure follows the "Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Rainbow Trout" EPS 1/RM/13, Second Edition – December 2000. Test volume was 11.5 litres with ten fish in each test vessel. Aeration was by forced air through glass pipettes at a rate of approximately 6.5 ± 1 ml/L/min. The sample was not pH adjusted or filtered prior to testing.

The initial dissolved oxygen level was 11.6 mg/L at 10.5°C, the conductivity was 750 μ S/cm and the initial pH was 8.0. After pre-aerating the sample for 120 minutes and warming to 14.0°C, the dissolved oxygen level was 11.0 mg/L. Although the dissolved oxygen level was greater than 100% saturation, the maximum pre-aeration time had been reached so the test was initiated at this time. The test set up technician was AH.

Please call should you have any questions.

IRC Integrated Resource Consultants Inc.


Marian Zazzi
Laboratory Supervisor
B190.1
enclosure

RAW DATA:

**TEST
CONCENTRATION**

HOURS

		0	0.5	24	48	72	96
100% 1093920	Percent Survival	100%	100%	100%	100%	100%	100%
	Dissolved Oxygen (mg/L)	11.0		9.1	9.3	9.1	9.4
	Temperature (°C)	14.0		14.0	14.0	14.0	14.0
	pH	8.0		8.0	8.0	8.0	8.0
	Conductivity (µS/cm)	752					777
	Symptoms	1	1,2	1,2	1,2	1,2	1,2
	Loading Density (g/L)	0.59	0.59	0.59	0.59	0.59	0.59
CONTROL							
CONTROL	Percent Survival	100%	100%	100%	100%	100%	100%
	Dissolved Oxygen (mg/L)	10.0		9.1	9.3	9.0	9.0
	Temperature (°C)	14.0		14.0	14.0	14.0	14.0
	pH	7.4		7.2	7.3	7.3	7.2
	Conductivity (µS/cm)	50					58
	Symptoms	1	1	1	1	1	1
	Loading Density (g/L)	0.59	0.59	0.59	0.59	0.59	0.59
Technician		AH	AH	AH	JB	AH	JB

KEY TO SYMPTOMS:

- 1 = no apparent effect
- 2 = fish showing signs of stress
- 3 = loss of equilibrium

TEST FISH STOCK INFORMATION

Date received:	26 November 2003	
Source:	Sun Valley Trout Farm	
Species:	<i>Oncorhynchus mykiss</i> (Rainbow Trout)	
Fork Length:	Mean:	4.16cm ± 0.39cm
	Range:	3.70cm – 4.70cm
Wet weight:	Mean:	0.68 ± 0.17g
	Range:	0.46 – 0.89g
Condition Factor (100xWt/length ³ cm):	0.94	

Acclimation History	
Acclimation temperature:	13.5 to 14.0 ° CELSIUS
Treatments:	None
Water:	Dechlorinated tap water
Feeding:	Moore Clark Fry Feed
Mortality:	< 2%

RAINBOW TROUT REFERENCE TOXICANT DATA

Stock Arrival Date (y/m/d)	Test Date (y/m/d)	Toxicant	Log LC ₅₀ (mg/L)
03.07.14	03.08.22	Phenol	1.12
03.07.28	03.08.27	“	1.04
03.08.27	03.09.05	“	1.03
03.09.08	03.09.19	“	0.99
03.09.08	03.10.04	“	1.05
03.09.10	03.10.08	“	1.04
03.09.24	03.10.20	“	1.08
03.10.16	03.11.04	“	0.99
03.10.16	03.11.18	“	1.06
03.11.10	03.11.26	“	1.08
03.11.17	03.12.03	“	1.04
03.11.17	03.12.16	“	0.97
03.11.26	03.12.17	“	1.08
LAB GEOMETRIC MEAN (LOG) ± 2 standard deviations:			1.03 mg/L ± 0.09
Warning Limits (Log Values):		0.94 mg/L to 1.12 mg/L	

CONTROL/DILUTION WATER QUALITY:

Hardness: 16 mg/L
Total Residual Chlorine: 0 mg/L

8 January 2004

Norwest Labs
104-19575 55A Ave
Surrey, B.C. V3S 8P8

Attention: Frances Ellison

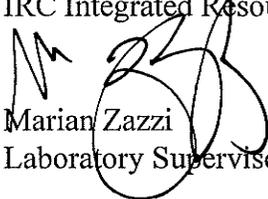
Reference: Rainbow Trout Bioassay Conducted on Sample "1093920".

Dear Ms. Ellison,

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Should you have any questions regarding the above information please do not hesitate to call me at (604) 278-7714.

Regards,
IRC Integrated Resource Consultants Inc.


Marian Zazzi
Laboratory Supervisor



Report Transmission Cover Page

Norwest Labs
 #104, 19575-55 A Ave.
 Surrey, BC. V3S 8P8
 Phone: (604) 514-3322
 Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
 204D Strickland Street
 Whitehorse, YT, Canada
 Y1A 2J8
 Attn: Travis Ritchie
 Sampled By: T Richie
 Company: ACG

Project
ID: NND.03.01
Name: Keno Hill Mines
Location: WQ Monitoring
LSD: ELSA, Yukon
P.O.:
Acct. Code: (Revised)

NWL Lot ID: 277393
Control Number: E 157112
Date Received: Dec 30, 2003
Date Reported: Jan 06, 2004
Report Number: 499529

Copies	Contact	Company	Address		
0	xxxJason xxxAdams	Access Mining Consultants Ltd.	204D Strickland Street Whitehorse, YT Y1A 2J8 Phone: (867) 668-6463 Fax: (867) 667-6680 Email: jason@accessconsulting.ca	Fax Email Custom Email Web x Email Notification	Post Pickup Courier Hand
1	Travis Ritchie	Access Mining Consultants Ltd.	204D Strickland Street Whitehorse, YT Y1A 2J8 Phone: (867) 668-6463 Fax: (867) 667-6680 Email: travis@accessconsulting.ca	Fax Email Custom Email Web x Email Notification x	Post x Pickup Courier Hand

_____ # OF PAGES IN THIS TRANSMISSION

Report Transmission Notes

Agreement Notes

Lot Notes

Sample Notes:

Notes to Clients

Agreement Notes

Lot Notes:
 Reentered results for ALK, as acid volume incorrectly entered.
 Virg. 01.08.04

Samples were received 14 days after sampling - bioassays are past holding time. Temperature at time of receipt = 6C. 30-Dec-03. jk

Sample Notes:

Reports associated with this Lot

Id/Format/Reported Date
 499529 Envir2QC 3 Smp & DL 6-Jan-04

Id/Format/Reported Date

Id/Format/Reported Date



Report Transmission Cover Page

Norwest Labs
#104, 19575-55 A Ave.
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Attn: Travis Ritchie
Sampled By: T Richie
Company: ACG

Project
ID: NND.03.01
Name: Keno Hill Mines
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LSD: ELSA, Yukon
P.O.:
Acct. Code: (Revised)

NWL Lot ID: 277393
Control Number: E 157112
Date Received: Dec 30, 2003
Date Reported: Jan 06, 2004
Report Number: 499529

Comment:

See Methodology and Notes page of Analytical Report for all comments pertaining to this report.

If this report transmission is not satisfactory, please send report requirements to the address at the top of this page.



Sample Custody

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
204D Strickland Street
Whitehorse, YT, Canada
Y1A 2J8
Attn: Travis Ritchie
Sampled By: T Richie
Company: ACG

Project
ID: NND.03.01
Name: Keno Hill Mines
Location: WQ Monitoring
LSD: ELSA, Yukon
P.O.:
Acct. Code: (Revised)

NWL Lot ID: 277393
Control Number: E 157112
Date Received: Dec 30, 2003
Date Reported: Jan 06, 2004
Report Number: 499529

Sample Disposal Date: Feb 07, 2004

All samples will be stored until this date unless other instructions are received. Please indicate other requirements below and return this form to the address or fax number on the upper right of this page.

_____ **Extend Sample Storage Until** _____ (MM/DD/YY)

The following charges apply to extended sample storage:

Storage for 1 to 5 samples per month	\$ 10.00
Storage for 6 to 20 samples per month	\$ 15.00
Storage for 21 to 50 samples per month	\$ 30.00
Storage for 51 to 200 samples per month	\$ 60.00
Storage for more than 200 samples per month	\$ 110.00

_____ **Return Sample, collect, to the address below via:**

- _____ Greyhound
- _____ Loomis
- _____ Purolator
- _____ Other (Specify) _____

Name: _____
 Company: _____
 Address: _____

 Phone: _____
 Fax: _____
 Signature: _____

If no other arrangements have been made, samples will be disposed of on Feb 07, 2004.



Analytical Report

Norwest Labs
 #104, 19575-55 A Ave.
 Surrey, BC. V3S 8P8
 Phone: (604) 514-3322
 Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
 204D Strickland Street
 Whitehorse, YT, Canada
 Y1A 2J8
 Attn: Travis Ritchie
 Sampled By: T Richie
 Company: ACG

Project ID: NND.03.01
Name: Keno Hill Mines
Location: WQ Monitoring
LSD: ELSA, Yukon
P.O.:
Acct. Code: (Revised)

NWL Lot ID: 277393
Control Number: E 157112
Date Received: Dec 30, 2003
Date Reported: Jan 06, 2004
Report Number: 499529

Analyte	Units	NWL Number	277393-1	277393-2	277393-3	Detection Limit
		Sample Date	Sample Description	Sample Description	Sample Description	
		Matrix	LES.02 17-Dec-03	LES.07 17-Dec-03	LES.32 17-Dec-03	
			Water - General	Water - General	Water - General	
Metals Dissolved (Trace)						
Aluminum	Dissolved	mg/L	<0.01	<0.01	0.03	0.01
Antimony	Dissolved	mg/L	<0.02	<0.02	<0.02	0.02
Arsenic	Dissolved	mg/L	<0.02	<0.02	<0.02	0.02
Barium	Dissolved	mg/L	0.0605	0.0496	0.0043	0.0005
Beryllium	Dissolved	mg/L	<0.0006	<0.0006	<0.0006	0.0005
Bismuth	Dissolved	mg/L	<0.02	<0.02	<0.02	0.02
Cadmium	Dissolved	mg/L	<0.0006	0.0006	0.213	0.0005
Calcium	Dissolved	mg/L	52.0	107	152	0.01
Chromium	Dissolved	mg/L	<0.001	<0.001	0.009	0.001
Cobalt	Dissolved	mg/L	<0.001	<0.001	0.087	0.001
Copper	Dissolved	mg/L	0.001	<0.001	<0.001	0.001
Iron	Dissolved	mg/L	0.032	<0.002	21.7	0.002
Lead	Dissolved	mg/L	<0.005	<0.005	0.014	0.005
Lithium	Dissolved	mg/L	<0.005	<0.005	0.020	0.005
Magnesium	Dissolved	mg/L	15.3	21.1	34.9	0.01
Manganese	Dissolved	mg/L	0.0596	0.821	86.2	0.0005
Molybdenum	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01
Nickel	Dissolved	mg/L	0.003	<0.001	0.330	0.001
Phosphorus	Dissolved	mg/L	<0.06	<0.06	<0.06	0.05
Potassium	Dissolved	mg/L	0.7	0.4	0.6	0.3
Selenium	Dissolved	mg/L	<0.02	<0.02	0.02	0.02
Silicon	Dissolved	mg/L	2.5	3.5	4.5	0.05
Silver	Dissolved	mg/L	<0.002	<0.002	<0.002	0.002
Sodium	Dissolved	mg/L	2.19	1.50	1.55	0.05
Strontium	Dissolved	mg/L	0.187	0.211	0.214	0.005
Sulphur	Dissolved	mg/L	24.6	75.8	330	0.2
Sulphate (SO4)	Dissolved	mg/L	73.9	227	990	0.6
Thorium	Dissolved	mg/L	<0.005	<0.005	<0.005	0.005
Tin	Dissolved	mg/L	<0.005	0.009	0.020	0.005
Titanium	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Uranium	Dissolved	mg/L	<0.06	<0.06	<0.06	0.06
Vanadium	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Zinc	Dissolved	mg/L	0.049	0.593	77.0	0.001
Zirconium	Dissolved	mg/L	<0.005	<0.005	<0.005	0.005
Hardness	as CaCO3	mg/L	193	355	523	1



Analytical Report

Norwest Labs
 #104, 19575-55 A Ave.
 Surrey, BC. V3S 8P8
 Phone: (604) 514-3322
 Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
 204D Strickland Street
 Whitehorse, YT, Canada
 Y1A 2J8
 Attn: Travis Ritchie
 Sampled By: T Richie
 Company: ACG

Project
ID: NND.03.01
Name: Keno Hill Mines
Location: WQ Monitoring
LSD: ELSA, Yukon
P.O.:
Acct. Code: (Revised)

NWL Lot ID: 277393
Control Number: E 157112
Date Received: Dec 30, 2003
Date Reported: Jan 06, 2004
Report Number: 499529

Analyte	Units	NWL Number	277393-1	277393-2	277393-3	Detection Limit
		Sample Date	LES.02 17-Dec-03	LES.07 17-Dec-03	LES.32 17-Dec-03	
		Sample Description	Water - General	Water - General	Water - General	
		Matrix				
Metals Total (Trace)						
Aluminum	Total	mg/L	0.03	0.02	0.07	0.01
Antimony	Total	mg/L	<0.02	<0.02	<0.02	0.02
Arsenic	Total	mg/L	<0.02	<0.02	0.07	0.02
Barium	Total	mg/L	0.0619	0.0521	0.0043	0.0005
Beryllium	Total	mg/L	<0.0006	<0.0006	<0.0006	0.0005
Bismuth	Total	mg/L	<0.02	<0.02	<0.02	0.02
Cadmium	Total	mg/L	<0.0006	0.0014	0.223	0.0005
Calcium	Total	mg/L	52.6	111	189	0.01
Chromium	Total	mg/L	<0.001	<0.001	0.016	0.001
Cobalt	Total	mg/L	<0.001	<0.001	0.094	0.001
Copper	Total	mg/L	0.004	<0.001	<0.001	0.001
Iron	Total	mg/L	0.134	0.070	23.6	0.002
Lead	Total	mg/L	<0.006	<0.006	<0.006	0.005
Lithium	Total	mg/L	<0.006	<0.006	0.020	0.005
Magnesium	Total	mg/L	15.6	21.9	38.6	0.01
Manganese	Total	mg/L	0.0709	0.858	154	0.0005
Molybdenum	Total	mg/L	<0.01	<0.01	<0.01	0.01
Nickel	Total	mg/L	0.003	<0.001	0.349	0.001
Phosphorus	Total	mg/L	<0.06	<0.06	<0.06	0.05
Potassium	Total	mg/L	0.7	0.4	0.6	0.3
Selenium	Total	mg/L	<0.02	<0.02	0.02	0.02
Silicon	Total	mg/L	2.6	3.8	4.8	0.05
Silver	Total	mg/L	<0.002	<0.002	<0.002	0.002
Sodium	Total	mg/L	2.44	1.51	1.62	0.05
Strontium	Total	mg/L	0.189	0.224	0.217	0.005
Sulphur	Total	mg/L	24.9	81.2	337	0.2
Thorium	Total	mg/L	<0.006	<0.006	<0.006	0.005
Tin	Total	mg/L	0.020	0.009	0.020	0.005
Titanium	Total	mg/L	<0.001	<0.001	<0.001	0.001
Uranium	Total	mg/L	<0.07	<0.07	<0.07	0.06
Vanadium	Total	mg/L	<0.001	<0.001	<0.001	0.001
Zinc	Total	mg/L	0.056	0.618	116	0.001
Zirconium	Total	mg/L	<0.006	<0.006	<0.006	0.005
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	<2	<2	30	1



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 Sampled By: T Richie
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ID: NND.03.01
Name: Keno Hill Mines
Location: WQ Monitoring
LSD: ELSA, Yukon
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NWL Lot ID: 277393
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		NWL Number	277393-1	277393-2	277393-3	
		Sample Date				
		Sample Description	LES.02 17-Dec-03	LES.07 17-Dec-03	LES.32 17-Dec-03	
		Matrix	Water - General	Water - General	Water - General	
Analyte		Units	Results	Results	Results	Detection Limit
Routine Water						
pH	Water	pH	8.0	8.0	6.4	0.1
Electrical Conductivity	Water	uS/cm	425	760	1700	1
Hydroxide	Water	mg/L	<5	<5	<5	5
Carbonate	Water	mg/L	<6	<6	<6	5
Bicarbonate	Water	mg/L	138	181	35	5
T-Alkalinity	as CaCO3	mg/L	113	148	29	5



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P.O.:
Acct. Code: (Revised)

NWL Lot ID: 277393
 Control Number: E 157112
 Date Received: Dec 30, 2003
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Analyte	Units	277393-4		277393-5		277393-6	
		Matrix	Water - General	Water - General	Water - General	Detection Limit	
Metals Dissolved (Trace)							
Aluminum	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01	
Antimony	Dissolved	mg/L	<0.02	<0.02	0.04	0.02	
Arsenic	Dissolved	mg/L	<0.02	<0.02	<0.02	0.02	
Barium	Dissolved	mg/L	0.0502	0.0527	0.0180	0.0005	
Beryllium	Dissolved	mg/L	<0.0006	<0.0006	<0.0006	0.0005	
Bismuth	Dissolved	mg/L	<0.02	<0.02	<0.02	0.02	
Cadmium	Dissolved	mg/L	0.0008	<0.0006	0.0444	0.0005	
Calcium	Dissolved	mg/L	110	46.5	257	0.01	
Chromium	Dissolved	mg/L	<0.001	<0.001	0.007	0.001	
Cobalt	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001	
Copper	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001	
Iron	Dissolved	mg/L	0.012	0.037	<0.002	0.002	
Lead	Dissolved	mg/L	<0.005	<0.005	<0.005	0.005	
Lithium	Dissolved	mg/L	0.005	<0.005	0.018	0.005	
Magnesium	Dissolved	mg/L	21.7	14.5	44.8	0.01	
Manganese	Dissolved	mg/L	1.21	0.0459	50.4	0.0005	
Molybdenum	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01	
Nickel	Dissolved	mg/L	<0.001	0.002	0.144	0.001	
Phosphorus	Dissolved	mg/L	<0.06	<0.06	<0.06	0.05	
Potassium	Dissolved	mg/L	<0.3	0.4	<0.3	0.3	
Selenium	Dissolved	mg/L	<0.02	<0.02	<0.02	0.02	
Silicon	Dissolved	mg/L	3.6	2.3	5.7	0.05	
Silver	Dissolved	mg/L	<0.002	<0.002	<0.002	0.002	
Sodium	Dissolved	mg/L	1.50	2.18	1.69	0.05	
Strontium	Dissolved	mg/L	0.220	0.194	0.400	0.005	
Sulphur	Dissolved	mg/L	79.2	21.9	320	0.2	
Sulphate (SO4)	Dissolved	mg/L	238	65.7	960	0.6	
Thorium	Dissolved	mg/L	<0.005	<0.005	<0.005	0.005	
Tin	Dissolved	mg/L	0.010	0.008	0.026	0.005	
Titanium	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001	
Uranium	Dissolved	mg/L	<0.06	<0.06	<0.06	0.06	
Vanadium	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001	
Zinc	Dissolved	mg/L	0.780	0.024	53.8	0.001	
Zirconium	Dissolved	mg/L	<0.005	<0.005	<0.005	0.005	



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Name: Keno Hill Mines
Location: WQ Monitoring
LSD: ELSA, Yukon
P.O.:
Acct. Code: (Revised)

NWL Lot ID: 277393
 Control Number: E 157112
 Date Received: Dec 30, 2003
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 Report Number: 499529

Analyte	Units	277393-4		277393-5		277393-6	
		Matrix	Water - General	Water - General	Water - General	Detection Limit	
Metals Dissolved (Trace) - Continued							
Hardness	as CaCO3	mg/L	364	176	827	1	
Metals Total (Trace)							
Aluminum	Total	mg/L	<0.01	0.03	0.01	0.01	
Antimony	Total	mg/L	<0.02	<0.02	0.06	0.02	
Arsenic	Total	mg/L	<0.02	<0.02	<0.02	0.02	
Barium	Total	mg/L	0.0522	0.0551	0.0182	0.0005	
Beryllium	Total	mg/L	<0.0006	<0.0006	<0.0006	0.0005	
Bismuth	Total	mg/L	<0.02	<0.02	<0.02	0.02	
Cadmium	Total	mg/L	0.0011	<0.0006	0.0449	0.0005	
Calcium	Total	mg/L	112	47.1	271	0.01	
Chromium	Total	mg/L	<0.001	<0.001	0.008	0.001	
Cobalt	Total	mg/L	<0.001	<0.001	0.001	0.001	
Copper	Total	mg/L	0.002	0.003	<0.001	0.001	
Iron	Total	mg/L	0.089	0.134	<0.002	0.002	
Lead	Total	mg/L	<0.006	<0.006	<0.006	0.005	
Lithium	Total	mg/L	0.006	<0.006	0.018	0.005	
Magnesium	Total	mg/L	22.0	14.7	47.1	0.01	
Manganese	Total	mg/L	1.24	0.0480	52.7	0.0005	
Molybdenum	Total	mg/L	<0.01	<0.01	<0.01	0.01	
Nickel	Total	mg/L	0.001	0.004	0.146	0.001	
Phosphorus	Total	mg/L	<0.06	<0.06	<0.06	0.05	
Potassium	Total	mg/L	<0.3	0.4	0.4	0.3	
Selenium	Total	mg/L	<0.02	0.02	<0.02	0.02	
Silicon	Total	mg/L	3.8	2.5	5.8	0.05	
Silver	Total	mg/L	<0.002	<0.002	<0.002	0.002	
Sodium	Total	mg/L	1.57	2.21	1.71	0.05	
Strontium	Total	mg/L	0.226	0.203	0.404	0.005	
Sulphur	Total	mg/L	82.6	22.4	330	0.2	
Thorium	Total	mg/L	<0.006	<0.006	<0.006	0.005	
Tin	Total	mg/L	0.019	0.008	0.028	0.005	
Titanium	Total	mg/L	<0.001	<0.001	<0.001	0.001	
Uranium	Total	mg/L	<0.07	<0.07	<0.07	0.06	
Vanadium	Total	mg/L	<0.001	<0.001	<0.001	0.001	
Zinc	Total	mg/L	0.804	0.026	56.3	0.001	



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Location: WQ Monitoring
LSD: ELSA, Yukon
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Acct. Code: (Revised)

NWL Lot ID: 277393
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 Date Received: Dec 30, 2003
 Date Reported: Jan 06, 2004
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	NWL Number	277393-4	277393-5	277393-6		
	Sample Date					
	Sample Description	STN.06 17-Dec-03	LES.01 17-Dec-03	ACG.WQ.10 17-Dec-03		
	Matrix	Water - General	Water - General	Water - General		
Analyte	Units	Results	Results	Results	Detection Limit	
Metals Total (Trace) - Continued						
Zirconium	Total	mg/L	<0.006	<0.006	<0.006	0.005
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	<2	<2	<2	1
Routine Water						
pH	Water	pH	8.0	7.6	6.3	0.1
Electrical Conductivity	Water	uS/cm	770	400	1700	1
Hydroxide	Water	mg/L	<5	<5	<5	5
Carbonate	Water	mg/L	<6	<6	<6	5
Bicarbonate	Water	mg/L	181	158	18	5
T-Alkalinity	as CaCO3	mg/L	148	130	14	5



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LSD: ELSA, Yukon
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NWL Lot ID: 277393
Control Number: E 157112
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Analyte	Matrix	NWL Number 277393-7		NWL Number 277393-8		NWL Number 277393-9	
		Sample Date	Sample Description	Sample Date	Sample Description	Sample Date	Sample Description
Units	Water - General	Water - General	Water - General	Water - General	Detection Limit		
Metals Dissolved (Trace)							
Aluminum	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01	
Antimony	Dissolved	mg/L	<0.02	<0.02	<0.02	0.02	
Arsenic	Dissolved	mg/L	<0.02	<0.02	<0.02	0.02	
Barium	Dissolved	mg/L	0.0625	0.0245	0.0755	0.0005	
Beryllium	Dissolved	mg/L	<0.0006	<0.0006	<0.0006	0.0005	
Bismuth	Dissolved	mg/L	<0.02	<0.02	<0.02	0.02	
Cadmium	Dissolved	mg/L	0.0011	0.0016	<0.0006	0.0005	
Calcium	Dissolved	mg/L	140	277	49.7	0.01	
Chromium	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001	
Cobalt	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001	
Copper	Dissolved	mg/L	0.005	<0.001	<0.001	0.001	
Iron	Dissolved	mg/L	0.023	<0.002	0.005	0.002	
Lead	Dissolved	mg/L	<0.005	<0.005	<0.005	0.005	
Lithium	Dissolved	mg/L	0.005	0.014	<0.005	0.005	
Magnesium	Dissolved	mg/L	21.8	53.0	9.99	0.01	
Manganese	Dissolved	mg/L	0.822	0.0575	0.0315	0.0005	
Molybdenum	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01	
Nickel	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001	
Phosphorus	Dissolved	mg/L	<0.06	<0.06	<0.06	0.05	
Potassium	Dissolved	mg/L	0.7	<0.3	<0.3	0.3	
Selenium	Dissolved	mg/L	<0.02	<0.02	<0.02	0.02	
Silicon	Dissolved	mg/L	4.0	4.8	2.8	0.05	
Silver	Dissolved	mg/L	<0.002	<0.002	<0.002	0.002	
Sodium	Dissolved	mg/L	1.99	1.86	0.96	0.05	
Strontium	Dissolved	mg/L	0.206	0.530	0.140	0.005	
Sulphur	Dissolved	mg/L	95.7	310	21.1	0.2	
Sulphate (SO4)	Dissolved	mg/L	287	931	63.4	0.6	
Thorium	Dissolved	mg/L	<0.005	<0.005	<0.005	0.005	
Tin	Dissolved	mg/L	0.022	0.040	<0.005	0.005	
Titanium	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001	
Uranium	Dissolved	mg/L	<0.06	<0.06	<0.06	0.06	
Vanadium	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001	
Zinc	Dissolved	mg/L	0.185	1.50	<0.001	0.001	
Zirconium	Dissolved	mg/L	<0.005	<0.005	<0.005	0.005	



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Analyte	Matrix	277393-7		277393-8		277393-9	
		Units	Results	Results	Results	Detection Limit	
Sample Description: ACG.WQ.5 17-Dec-03 ACG.WQ.11 17-Dec-03 ACG.WQ.11 (50m D/S) 17-Dec-03							
Metals Dissolved (Trace) - Continued							
Hardness	as CaCO3	mg/L	438	910	165	1	
Metals Total (Trace)							
Aluminum	Total	mg/L	0.07	<0.01	<0.01	0.01	
Antimony	Total	mg/L	<0.02	0.03	<0.02	0.02	
Arsenic	Total	mg/L	<0.02	<0.02	<0.02	0.02	
Barium	Total	mg/L	0.0631	0.0248	0.0762	0.0005	
Beryllium	Total	mg/L	<0.0006	<0.0006	<0.0006	0.0005	
Bismuth	Total	mg/L	<0.02	<0.02	<0.02	0.02	
Cadmium	Total	mg/L	0.0011	0.0017	<0.0006	0.0005	
Calcium	Total	mg/L	141	340	50.2	0.01	
Chromium	Total	mg/L	<0.001	<0.001	<0.001	0.001	
Cobalt	Total	mg/L	<0.001	<0.001	<0.001	0.001	
Copper	Total	mg/L	0.006	<0.001	0.001	0.001	
Iron	Total	mg/L	0.163	<0.002	0.036	0.002	
Lead	Total	mg/L	0.007	<0.006	<0.006	0.005	
Lithium	Total	mg/L	0.007	0.014	<0.006	0.005	
Magnesium	Total	mg/L	22.0	54.9	10.1	0.01	
Manganese	Total	mg/L	0.830	0.0592	0.0364	0.0005	
Molybdenum	Total	mg/L	<0.01	<0.01	<0.01	0.01	
Nickel	Total	mg/L	0.002	<0.001	<0.001	0.001	
Phosphorus	Total	mg/L	<0.06	<0.06	<0.06	0.05	
Potassium	Total	mg/L	0.7	<0.3	0.3	0.3	
Selenium	Total	mg/L	<0.02	0.03	<0.02	0.02	
Silicon	Total	mg/L	4.1	4.9	2.8	0.05	
Silver	Total	mg/L	<0.002	<0.002	<0.002	0.002	
Sodium	Total	mg/L	2.01	1.88	0.97	0.05	
Strontium	Total	mg/L	0.208	0.536	0.141	0.005	
Sulphur	Total	mg/L	96.7	327	21.3	0.2	
Thorium	Total	mg/L	<0.006	<0.006	<0.006	0.005	
Tin	Total	mg/L	0.022	0.047	<0.006	0.005	
Titanium	Total	mg/L	<0.001	<0.001	<0.001	0.001	
Uranium	Total	mg/L	<0.07	<0.07	<0.07	0.06	
Vanadium	Total	mg/L	<0.001	<0.001	<0.001	0.001	
Zinc	Total	mg/L	0.187	1.51	<0.001	0.001	



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	NWL Number	277393-7	277393-8	277393-9		
	Sample Date					
	Sample Description	ACG.WQ.5 17-Dec-03	ACG.WQ.11 17-Dec-03	ACG.WQ.11 (50m D/S) 17-Dec-03		
	Matrix	Water - General	Water - General	Water - General		
Analyte	Units	Results	Results	Results	Detection Limit	
Metals Total (Trace) - Continued						
Zirconium	Total	mg/L	<0.006	<0.006	<0.006	0.005
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	<2	<2	<2	1
Routine Water						
pH	Water	pH	7.3	7.2	7.8	0.1
Electrical Conductivity	Water	uS/cm	840	1780	370	1
Hydroxide	Water	mg/L	<5	<5	<5	5
Carbonate	Water	mg/L	<6	<6	<6	5
Bicarbonate	Water	mg/L	126	70	138	5
T-Alkalinity	as CaCO3	mg/L	103	58	113	5



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 Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
 204D Strickland Street
 Whitehorse, YT, Canada
 Y1A 2J8
 Attn: Travis Ritchie
 Sampled By: T Richie
 Company: ACG

Project
ID: NND.03.01
Name: Keno Hill Mines
Location: WQ Monitoring
LSD: ELSA, Yukon
P.O.:
Acct. Code: (Revised)

NWL Lot ID: 277393
Control Number: E 157112
Date Received: Dec 30, 2003
Date Reported: Jan 06, 2004
Report Number: 499529

Analyte	Units	Results		Results	Detection Limit
		Matrix	Water - General		
Metals Dissolved (Trace)					
Aluminum	Dissolved	mg/L	<0.01	<0.01	0.01
Antimony	Dissolved	mg/L	<0.02	<0.02	0.02
Arsenic	Dissolved	mg/L	<0.02	<0.02	0.02
Barium	Dissolved	mg/L	0.0548	0.0575	0.0005
Beryllium	Dissolved	mg/L	<0.0006	<0.0006	0.0005
Bismuth	Dissolved	mg/L	<0.02	<0.02	0.02
Cadmium	Dissolved	mg/L	0.0020	0.0014	0.0005
Calcium	Dissolved	mg/L	147	120	0.01
Chromium	Dissolved	mg/L	<0.001	<0.001	0.001
Cobalt	Dissolved	mg/L	<0.001	<0.001	0.001
Copper	Dissolved	mg/L	<0.001	<0.001	0.001
Iron	Dissolved	mg/L	0.028	0.019	0.002
Lead	Dissolved	mg/L	<0.005	<0.005	0.005
Lithium	Dissolved	mg/L	0.005	0.005	0.005
Magnesium	Dissolved	mg/L	22.7	21.4	0.01
Manganese	Dissolved	mg/L	2.61	2.06	0.0005
Molybdenum	Dissolved	mg/L	<0.01	<0.01	0.01
Nickel	Dissolved	mg/L	0.002	0.001	0.001
Phosphorus	Dissolved	mg/L	<0.06	<0.06	0.05
Potassium	Dissolved	mg/L	<0.3	0.4	0.3
Selenium	Dissolved	mg/L	<0.02	<0.02	0.02
Silicon	Dissolved	mg/L	3.9	3.7	0.05
Silver	Dissolved	mg/L	<0.002	<0.002	0.002
Sodium	Dissolved	mg/L	1.55	1.57	0.05
Strontium	Dissolved	mg/L	0.235	0.220	0.005
Sulphur	Dissolved	mg/L	107	90.1	0.2
Sulphate (SO4)	Dissolved	mg/L	320	270	0.6
Thorium	Dissolved	mg/L	<0.005	<0.005	0.005
Tin	Dissolved	mg/L	0.019	0.016	0.005
Titanium	Dissolved	mg/L	<0.001	<0.001	0.001
Uranium	Dissolved	mg/L	<0.06	<0.06	0.06
Vanadium	Dissolved	mg/L	<0.001	<0.001	0.001
Zinc	Dissolved	mg/L	1.47	1.24	0.001
Zirconium	Dissolved	mg/L	<0.005	<0.005	0.005



Analytical Report

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Project ID: NND.03.01
Name: Keno Hill Mines
Location: WQ Monitoring
LSD: ELSA, Yukon
P.O.:
Acct. Code: (Revised)

NWL Lot ID: 277393
 Control Number: E 157112
 Date Received: Dec 30, 2003
 Date Reported: Jan 06, 2004
 Report Number: 499529

Analyte	Units	Results		Results	Detection Limit
		277393-10	277393-11		
Metals Dissolved (Trace) - Continued					
Hardness	as CaCO3	mg/L	461	388	1
Metals Total (Trace)					
Aluminum	Total	mg/L	0.03	0.02	0.01
Antimony	Total	mg/L	<0.02	<0.02	0.02
Arsenic	Total	mg/L	<0.02	<0.02	0.02
Barium	Total	mg/L	0.0570	0.0600	0.0005
Beryllium	Total	mg/L	<0.0006	<0.0006	0.0005
Bismuth	Total	mg/L	<0.02	<0.02	0.02
Cadmium	Total	mg/L	0.0023	0.0018	0.0005
Calcium	Total	mg/L	149	141	0.01
Chromium	Total	mg/L	<0.001	<0.001	0.001
Cobalt	Total	mg/L	<0.001	<0.001	0.001
Copper	Total	mg/L	<0.001	<0.001	0.001
Iron	Total	mg/L	0.278	0.241	0.002
Lead	Total	mg/L	<0.006	<0.006	0.005
Lithium	Total	mg/L	0.006	0.006	0.005
Magnesium	Total	mg/L	22.9	21.8	0.01
Manganese	Total	mg/L	2.63	2.11	0.0005
Molybdenum	Total	mg/L	<0.01	<0.01	0.01
Nickel	Total	mg/L	0.002	0.001	0.001
Phosphorus	Total	mg/L	<0.06	<0.06	0.05
Potassium	Total	mg/L	0.3	0.9	0.3
Selenium	Total	mg/L	0.06	<0.02	0.02
Silicon	Total	mg/L	4.1	3.9	0.05
Silver	Total	mg/L	<0.002	<0.002	0.002
Sodium	Total	mg/L	1.57	1.59	0.05
Strontium	Total	mg/L	0.238	0.230	0.005
Sulphur	Total	mg/L	108	100	0.2
Thorium	Total	mg/L	<0.006	<0.006	0.005
Tin	Total	mg/L	0.022	0.017	0.005
Titanium	Total	mg/L	<0.001	<0.001	0.001
Uranium	Total	mg/L	<0.07	<0.07	0.06
Vanadium	Total	mg/L	<0.001	<0.001	0.001
Zinc	Total	mg/L	1.50	1.27	0.001



Analytical Report

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 Y1A 2J8
 Attn: Travis Ritchie
 Sampled By: T Richie
 Company: ACG

Project ID: NND.03.01
Name: Keno Hill Mines
Location: WQ Monitoring
LSD: ELSA, Yukon
P.O.:
Acct. Code: (Revised)

NWL Lot ID: 277393
 Control Number: E 157112
 Date Received: Dec 30, 2003
 Date Reported: Jan 06, 2004
 Report Number: 499529

Analyte	Units	Results		Results	Detection Limit
		277393-10	277393-11		
Metals Total (Trace) - Continued					
Zirconium Total	mg/L	<0.006	<0.006		0.005
Physical and Aggregate Properties					
Solids Total Suspended	mg/L	6	4		1
Routine Water					
pH	pH	7.5	7.7		0.1
Electrical Conductivity	uS/cm	890	840		1
Hydroxide	mg/L	<5	<5		5
Carbonate	mg/L	<6	<6		5
Bicarbonate	mg/L	168	161		5
T-Alkalinity	as CaCO3	138	132		5

Approved by:

Bill Warning, B.Sc.
 Lab Operations Manager



Quality Control

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Project
ID: NND.03.01
Name: Keno Hill Mines
Location: WQ Monitoring
LSD: ELSA, Yukon
P.O.:
Acct. Code: (Revised)

NWL Lot ID: 277393
Control Number: E 157112
Date Received: Dec 30, 2003
Date Reported: Jan 06, 2004
Report Number: 499529

Page: 13 of 14

Routine Water

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Electrical Conductivity	uS/cm	420	430	385	475	✓
Material Used:	S0088 - Cond					
Date Acquired:	Jan 06, 2004					
Acquired By:	Maria Gaborni					



Methodology and Notes

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Project
ID: NND.03.01
Name: Keno Hill Mines
Location: WQ Monitoring
LSD: ELSA, Yukon
P.O.:
Acct. Code: (Revised)

NWL Lot ID: **277393**
Control Number: E 157112
Date Received: Dec 30, 2003
Date Reported: Jan 06, 2004
Report Number: 499529

Page: 14 of 14

Method of Analysis:

MethodName	Reference	Method	Date Analysis Started	Location
Alkalinity	APHA	* Titration Method, 2320 B	8-Jan-04	Norwest Labs Surrey
Conductivity	APHA	* Conductivity - Laboratory Method, 2510 B	6-Jan-04	Norwest Labs Surrey
Metals SemiTrace (Dissolved) in water	US EPA	Metals & Trace Elements by Ultrasonic Nebulization ICP-AES, 200.15	5-Jan-04	Norwest Labs Surrey
Metals SemiTrace (Total) in water	US EPA	Metals & Trace Elements by Ultrasonic Nebulization ICP-AES, 200.15	5-Jan-04	Norwest Labs Surrey
pH in water	APHA	* Electrometric Method, 4500-H+ B	6-Jan-04	Norwest Labs Surrey
Solids Suspended (Total, Fixed and Volatile)	APHA	* Total Suspended Solids Dried at 103-105°C, 2540 D	5-Jan-04	Norwest Labs Surrey

* Norwest method(s) is based on reference method

References:

APHA Standard Methods for the Examination of Water and Wastewater
US EPA US Environmental Protection Agency Test Methods

Comments:

Reentered results for ALK, as acid volume incorrectly entered.
Virg. 01.08.04

Samples were received 14 days after sampling - bioassays are past holding time. Temperature at time of receipt = 6C. 30-Dec-03. jk

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted

The test report shall not be reproduced except in full, without the written approval of the laboratory



Environmental Sample Information Sheet

NOTE: Proper completion of this form is required in order to proceed with analysis
See reverse for your nearest Norwest location and proper sampling protocol

Billing Address: Company: <i>ACG</i> Address: <i>204 D Stridcland St. Whitcomb Yukon Y1A 2J8</i>		Copy of Report To: Company: Address:		Copy of invoice: <input type="checkbox"/> Mail invoice to this address for approval <input type="checkbox"/>	
QA/QC Report <input type="checkbox"/>		Report Result: Fax <input type="checkbox"/> Mail <input checked="" type="checkbox"/> Courier <input type="checkbox"/> e-mail <input checked="" type="checkbox"/>		Attention: Phone: Fax: Cell: e-mail:	

Information to be included on Report and Invoice Project ID: <i>NND-03-01</i> Project Name: <i>Keng Hill Mines</i> Project Location: <i>W. Q. Monitoring</i> Legal Location: <i>ELSA, Yukon</i> PO#: Proj. Acct. Code: Agreement ID:	RUSH Please contact the laboratory to confirm rush dates and times before submitting samples. Upon filling out this section, client accepts that surcharges will be attached to this analysis Required on: all analyses or as indicated <input type="checkbox"/> or <input type="checkbox"/> Date Required: _____ Signature: _____ Norwest Authorization: _____	Sample Custody (Please Print) Sampled by: <i>T. RITCHIE</i> Date: <i>Dec 17/03</i> Company: <i>ACG</i> Signature: <i>[Signature]</i> Relinquished by: <i>Joris Ritchie</i> Company: <i>ACG</i> Date: <i>Dec 19/03</i> Waybill number: <i>04-12843530</i> Received by: Company: _____ Date: _____	
--	--	--	--

Special Instructions / Comments Check here if Norwest is required to report results directly to a regulatory body (Please include contact information)

BIO ASSAY Containers in 2 separate coolers

Sample Identification	Location	Depth IN CM M	Date / Time Sampled	Matrix	Sampling Method	Number of Containers	Enter tests above (relevant samples below)					
							Tot. Metals	Dissolved Metals	(Alk., Sulphates pH, Cond., TSS Hardness)	[100%] Bioassay		
1 LES-02			<i>Dec 17/03</i>	<i>Water</i>	<i>Grab</i>	3	✓	✓	✓			
2 LES-07						4	✓	✓	✓		✓	
3 LES-32						3	✓	✓	✓			
4 STN-06						3	✓	✓	✓			
5 LES-01						3	✓	✓	✓			
6 ACG-WQ-10						3	✓	✓	✓			
7 ACG-WQ-5						3	✓	✓	✓			
8 ACG-WQ-11						4	✓	✓	✓		✓	
9 ACG-WQ-11 (50m D/S)						3	✓	✓	✓			
10 ACG-WQ-11 (50m I/S)						3	✓	✓	✓			
11 ACG-WQ-11 (100m D/S)						3	✓	✓	✓			
12												
13												
14												
15												

NWL008 (08/01)



RICHMOND, B.C.
V6V 1L4 Canada
Tel: (604) 278-7714
Fax: (604) 278-7741
email: ire@mindlink.bc.ca

Integrated Resource Consultants Inc.

Fax Cover Sheet

DATE: 13 January 2004
TO: Randy Neumann
Norwest Labs
FROM: Marian Zazzi
IRC Integrated Resource Consultants Inc.
RE: BIOASSAY RESULT

Number of pages including cover sheet: 1

SAMPLE NAME:	1097729; Lot # 278591
SAMPLE DATE:	5 January 2004
DATE RECEIVED:	9 January 2004; 1435 hrs
ANALYSIS:	Rainbow trout 96 hour toxicity - LC50
96 HOUR RESULT:	The 96 hour (static) LC ₅₀ was less than 0.5%. 100% trout mortality in all concentrations tested:

On 10 January 2004, 5 concentrations were set up (100%, 50%, 25%, 12.5% and 6.2%), in less than 24 hours all fish exposed had died. On 11 January 2004, material from the 100% concentration was used to set up 2 lower concentrations of 1% and 0.5%. Within 24 hours all fish had died in the 100%; within 48 hours all fish had died in the 0.5% concentration.

Please call should you have any questions
Full report to follow in the mail.

This fax is confidential. Use of this facsimile by anyone other than the intended recipient is prohibited. If you have received this facsimile in error, please call 278-7714 and discard facsimile. Thank you.



Report Transmission Cover Page

Norwest Labs
 #104, 19575-55 A Ave.
 Surrey, BC. V3S 8P8
 Phone: (604) 514-3322
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Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
 204D Strickland Street
 Whitehorse, YT, Canada
 Y1A 2J8
 Attn: Dan Cornett
 Sampled By: D.Cornett
 Company: ACG

Project
ID: NND - 03 - 01
Name: Keno Hill - Elsa
Location: W.Q. Monitoring
LSD: Elsa
P.O.:
Acct. Code:

NWL Lot ID: 278591
 Control Number: E 01297
 Date Received: Jan 09, 2004
 Date Reported: Jan 16, 2004
 Report Number: 501907

Copies	Contact	Company	Address		
0	xxxJason xxxAdams	Access Mining Consultants Ltd.	204D Strickland Street Whitehorse, YT Y1A 2J8 Phone: (867) 668-6463 Fax: (867) 667-6680 Email: jason@accessconsulting.ca	Fax Email Custom Email Web x Email Notification	Post Pickup Courier Hand
1	Dan Cornett	Access Mining Consultants Ltd.	204D Strickland Street Whitehorse, YT Y1A 2J8 Phone: (867) 668-6463 Fax: (867) 667-6680 Email:	Fax x Email x Custom Email Web Email Notification	Post x Pickup Courier Hand

_____ # OF PAGES IN THIS TRANSMISSION

Report Transmission Notes

Agreement Notes

Lot Notes

Sample Notes:

Notes to Clients

Agreement Notes

Lot Notes:

Sample Notes:

Reports associated with this Lot

<u>Id/Format/Reported Date</u>	<u>Id/Format/Reported Date</u>	<u>Id/Format/Reported Date</u>
501907 Envir2 3 Smp & DL		

Comment:

See Methodology and Notes page of Analytical Report for all comments pertaining to this report.

If this report transmission is not satisfactory, please send report requirements to the address at the top of this page.



Sample Custody

Norwest Labs
#104, 19575-55 A Ave.
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Project
ID: NND - 03 - 01
Name: Keno Hill - Elsa
Location: W.Q. Monitoring
LSD: Elsa
P.O.:
Acct. Code:

NWL Lot ID: 278591
Control Number: E 01297
Date Received: Jan 09, 2004
Date Reported: Jan 16, 2004
Report Number: 501907

Sample Disposal Date: Feb 15, 2004

All samples will be stored until this date unless other instructions are received. Please indicate other requirements below and return this form to the address or fax number on the upper right of this page.

_____ **Extend Sample Storage Until** _____ (MM/DD/YY)

The following charges apply to extended sample storage:

Storage for 1 to 5 samples per month	\$ 10.00
Storage for 6 to 20 samples per month	\$ 15.00
Storage for 21 to 50 samples per month	\$ 30.00
Storage for 51 to 200 samples per month	\$ 60.00
Storage for more than 200 samples per month	\$ 110.00

_____ **Return Sample, collect, to the address below via:**

- _____ Greyhound
- _____ Loomis
- _____ Purolator
- _____ Other (Specify) _____

Name: _____
Company: _____
Address: _____

Phone: _____
Fax: _____
Signature: _____

If no other arrangements have been made, samples will be disposed of on Feb 15, 2004.



Analytical Report

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Project
ID: NND - 03 - 01
Name: Keno Hill - Elsa
Location: W.Q. Monitoring
LSD: Elsa
P.O.:
Acct. Code:

NWL Lot ID: 278591
 Control Number: E 01297
 Date Received: Jan 09, 2004
 Date Reported: Jan 16, 2004
 Report Number: 501907

Analyte	Units	NWL Number	278591-1	278591-2	278591-3	Detection Limit
		Sample Date	Site A 5-Jan-04	Site B 5-Jan-04	Site C 5-Jan-04	
		Sample Description	Water - General	Water - General	Water - General	
		Matrix				
Inorganic Nonmetallic Parameters						
Phosphorus	Total	mg/L	<0.05	<0.05	<0.05	0.05
Metals Total						
Calcium	Total	mg/L	150	150	359	0.2
Iron	Total	mg/L	0.3	0.3	<0.1	0.1
Magnesium	Total	mg/L	28.0	26.6	58.3	0.2
Manganese	Total	mg/L	4.46	4.47	2.95	0.005
Potassium	Total	mg/L	<0.4	<0.4	0.5	0.4
Silicon	Total	mg/L	3.36	3.54	4.43	0.05
Sodium	Total	mg/L	2.0	1.6	1.9	0.4
Sulphur	Total	mg/L	114	111	331	0.05
Aluminum	Total	mg/L	0.038	0.047	<0.005	0.005
Antimony	Total	mg/L	0.0005	0.0004	<0.0002	0.0002
Arsenic	Total	mg/L	0.0037	0.0035	0.0005	0.0002
Barium	Total	mg/L	0.075	0.073	0.038	0.001
Beryllium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Bismuth	Total	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Boron	Total	mg/L	0.005	0.003	0.003	0.002
Cadmium	Total	mg/L	0.00533	0.00548	0.0104	0.00001
Chromium	Total	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Total	mg/L	0.0011	0.0010	<0.0001	0.0001
Copper	Total	mg/L	0.001	0.001	0.001	0.001
Lead	Total	mg/L	0.0127	0.0123	0.0004	0.0001
Lithium	Total	mg/L	0.011	0.012	0.029	0.001
Molybdenum	Total	mg/L	<0.001	<0.001	<0.001	0.001
Nickel	Total	mg/L	0.0130	0.0136	0.0172	0.0005
Selenium	Total	mg/L	0.0009	0.0010	0.0003	0.0002
Silver	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Strontium	Total	mg/L	0.280	0.281	0.692	0.001
Thallium	Total	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Tin	Total	mg/L	<0.001	<0.001	<0.001	0.001
Titanium	Total	mg/L	0.0070	0.0071	0.0173	0.0005
Uranium	Total	mg/L	0.0072	0.0069	<0.0005	0.0005
Vanadium	Total	mg/L	0.0002	0.0002	<0.0001	0.0001
Zinc	Total	mg/L	2.90	2.83	6.41	0.001
Zirconium	Total	mg/L	<0.001	<0.001	<0.001	0.001



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Name: Keno Hill - Elsa
Location: W.Q. Monitoring
LSD: Elsa
P.O.:
Acct. Code:

NWL Lot ID: 278591
 Control Number: E 01297
 Date Received: Jan 09, 2004
 Date Reported: Jan 16, 2004
 Report Number: 501907

Analyte	Units	278591-1		278591-3		278591-4	
		Results	Detection Limit	Results	Detection Limit	Results	Detection Limit
Physical and Aggregate Properties							
Temp. of observed pH and EC	°C	18.0		17.9		17.7	
Solids	Total Suspended	mg/L	3	<2		3	1
Routine Water							
pH			7.35		6.93		7.47
Electrical Conductivity		µS/cm at 25C	844		1660		884
Calcium	Dissolved	mg/L	150		361		157
Magnesium	Dissolved	mg/L	26.9		58.3		28.2
Sulphate (SO4)	Dissolved	mg/L	340		981		365
Hydroxide		mg/L	<5		<5		<5
Carbonate		mg/L	<6		<6		<6
Bicarbonate		mg/L	169		49		165
P-Alkalinity	as CaCO3	mg/L	<5		<5		<5
T-Alkalinity	as CaCO3	mg/L	138		40		136
Hardness	Dissolved as CaCO3	mg/L	484		1140		508



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Project ID: NND - 03 - 01
Name: Keno Hill - Elsa
Location: W.Q. Monitoring
LSD: Elsa
P.O.:
Acct. Code:

NWL Lot ID: 278591
 Control Number: E 01297
 Date Received: Jan 09, 2004
 Date Reported: Jan 16, 2004
 Report Number: 501907

Analyte	Units	NWL Number	278591-4	278591-5	278591-6	Detection Limit
		Sample Date	Sample Description	Sample Description	Sample Description	
		Matrix	Water - General	Water - General	Water - General	
Inorganic Nonmetallic Parameters						
Phosphorus	Total	mg/L	<0.05	<0.05	0.08	0.05
Metals Total						
Calcium	Total	mg/L	163	247	187	0.2
Iron	Total	mg/L	0.2	<0.1	23.0	0.1
Magnesium	Total	mg/L	29.0	48.4	40.3	0.2
Manganese	Total	mg/L	4.40	122	159	0.005
Potassium	Total	mg/L	<0.4	0.7	0.7	0.4
Silicon	Total	mg/L	3.06	3.79	4.02	0.05
Sodium	Total	mg/L	1.7	1.9	1.8	0.4
Sulphur	Total	mg/L	124	341	325	0.05
Aluminum	Total	mg/L	0.027	0.073	0.052	0.005
Antimony	Total	mg/L	0.0004	<0.0002	0.0005	0.0002
Arsenic	Total	mg/L	0.0029	0.0007	0.133	0.0002
Barium	Total	mg/L	0.072	0.045	0.007	0.001
Beryllium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Bismuth	Total	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Boron	Total	mg/L	0.002	0.003	0.018	0.002
Cadmium	Total	mg/L	0.00565	0.115	0.250	0.00001
Chromium	Total	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Total	mg/L	0.0010	0.0187	0.0846	0.0001
Copper	Total	mg/L	<0.001	0.002	0.001	0.001
Lead	Total	mg/L	0.0097	0.0009	0.0139	0.0001
Lithium	Total	mg/L	0.013	0.027	0.024	0.001
Molybdenum	Total	mg/L	<0.001	<0.001	<0.001	0.001
Nickel	Total	mg/L	0.0132	0.228	0.299	0.0005
Selenium	Total	mg/L	0.0008	<0.0002	<0.0002	0.0002
Silver	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Strontium	Total	mg/L	0.308	0.394	0.216	0.001
Thallium	Total	mg/L	<0.00005	<0.00005	0.00138	0.00005
Tin	Total	mg/L	<0.001	<0.001	<0.001	0.001
Titanium	Total	mg/L	0.0077	0.0173	0.0101	0.0005
Uranium	Total	mg/L	0.0070	<0.0005	<0.0005	0.0005
Vanadium	Total	mg/L	0.0001	0.0002	<0.0001	0.0001
Zinc	Total	mg/L	3.05	82.9	123	0.001
Zirconium	Total	mg/L	<0.001	<0.001	<0.001	0.001



Analytical Report

Norwest Labs
 #104, 19575-55 A Ave.
 Surrey, BC. V3S 8P8
 Phone: (604) 514-3322
 Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
 204D Strickland Street
 Whitehorse, YT, Canada
 Y1A 2J8
 Attn: Dan Cornett
 Sampled By: D.Cornett
 Company: ACG

Project
ID: NND - 03 - 01
Name: Keno Hill - Elsa
Location: W.Q. Monitoring
LSD: Elsa
P.O.:
Acct. Code:

NWL Lot ID: 278591
 Control Number: E 01297
 Date Received: Jan 09, 2004
 Date Reported: Jan 16, 2004
 Report Number: 501907

Analyte	Units	Results		Detection Limit
		278591-5	278591-6	
Physical and Aggregate Properties				
Temp. of observed pH and EC	°C	18.1	18.1	
Solids	Total Suspended	mg/L	6	31
Routine Water				
pH		6.58	6.43	
Electrical Conductivity		µS/cm at 25C	1690	1580
Calcium	Dissolved	mg/L	238	179
Magnesium	Dissolved	mg/L	47.2	38.2
Sulphate (SO4)	Dissolved	mg/L	1020	969
Hydroxide		mg/L	<5	<5
Carbonate		mg/L	<6	<6
Bicarbonate		mg/L	16	57
P-Alkalinity	as CaCO3	mg/L	<5	<5
T-Alkalinity	as CaCO3	mg/L	14	47
Hardness	Dissolved as CaCO3	mg/L	789	603

Approved by:

Bill Warning, B.Sc.
 Lab Operations Manager



Methodology and Notes

Norwest Labs
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Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
204D Strickland Street
Whitehorse, YT, Canada
Y1A 2J8
Attn: Dan Cornett
Sampled By: D.Cornett
Company: ACG

Project
ID: NND - 03 - 01
Name: Keno Hill - Elsa
Location: W.Q. Monitoring
LSD: Elsa
P.O.:
Acct. Code:

NWL Lot ID: **278591**
Control Number: E 01297
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Page: 5 of 5

Method of Analysis:

MethodName	Reference	Method	Date Analysis Started	Location
Alkalinity, pH, and EC in water	APHA	* Conductivity - Laboratory Method, 2510 B	12-Jan-04	Norwest Labs Edmonton
Alkalinity, pH, and EC in water	APHA	* Electrometric Method, 4500-H+ B	12-Jan-04	Norwest Labs Edmonton
Alkalinity, pH, and EC in water	APHA	* Titration Method, 2320 B	12-Jan-04	Norwest Labs Edmonton
Kjeldahl Nitrogen & Phosphorus (Total) in Water	APHA	* Automated Ascorbic Acid Reduction Method, 4500-P F	14-Jan-04	Norwest Labs Edmonton
Metals ICP-MS (Total) in water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	13-Jan-04	Norwest Labs Edmonton
Metals Trace (Dissolved) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	14-Jan-04	Norwest Labs Edmonton
Metals Trace (Total) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	13-Jan-04	Norwest Labs Edmonton
Metals Trace (Total) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	13-Jan-04	Norwest Labs Edmonton
Metals Trace (Total) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	13-Jan-04	Norwest Labs Edmonton
Solids Suspended (Total, Fixed and Volatile)	APHA	* Total Suspended Solids Dried at 103-105°C, 2540 D	13-Jan-04	Norwest Labs Edmonton

* Norwest method(s) is based on reference method

References:

APHA Standard Methods for the Examination of Water and Wastewater
US EPA US Environmental Protection Agency Test Methods

Comments:

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted

The test report shall not be reproduced except in full, without the written approval of the laboratory



Environmental Sample Information Sheet

NOTE Proper completion of this form is required in order to proceed with analysis
See reverse for your nearest Norwest location and proper sampling protocol

Billing Address: Company: <i>Access Consulting Group</i> Address: <i>204 D Strickland Street, Whitehouse, Y.T</i> Attention: <i>D. CORNETT</i> Phone: <i>867-668-6463</i> Fax: Cell: e-mail: <i>dan@accessconsulting.ca</i>	Report To: <input checked="" type="checkbox"/> QA/QC Report <input checked="" type="checkbox"/> Report Result: Fax <input checked="" type="checkbox"/> Mail <input checked="" type="checkbox"/> Courier <input type="checkbox"/> e-mail <input checked="" type="checkbox"/>	Copy of Report To: Company: Address: Attention: Phone: Fax: Cell: e-mail:	Copy of invoice: <input type="checkbox"/> Mail invoice to this address for approval <input type="checkbox"/> Report Result: Fax <input type="checkbox"/> Mail <input type="checkbox"/> Courier <input type="checkbox"/> e-mail <input type="checkbox"/>
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Information to be included on Report and Invoice Project ID: <i>NWD-03-01</i> Project Name: <i>Keno Hill - Elsa</i> Project Location: <i>W.Q. Monitoring</i> Legal Location: <i>- Elsa</i> PO#: <i>Elsa, Y.T.</i> Proj. Acct. Code: Agreement ID:	RUSH Please contact the laboratory to confirm rush dates and times before submitting samples. Upon filling out this section, client accepts that surcharges will be attached to this analysis Required on: all analyses or as indicated <input type="checkbox"/> or <input type="checkbox"/> Date Required: _____ Signature: _____ Norwest Authorization: _____	Sample Custody (Please Print) Sampled by: <i>D. CORNETT</i> Date <i>Jan 5, 6/04</i> Company <i>ACG</i> Signature <i>[Signature]</i> Relinquished by: <i>D. CORNETT</i> Company <i>ACG</i> Date <i>Jan 7/04</i> Waybill number: Received by: Company _____ Date _____ Processed by: <i>278591</i> Norwest Labs _____ Date <i>Jan 9/04</i>
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Special Instructions / Comments

3x 10L Bioassay Containers in 2 separate coolers

3 COOLER'S TOTAL.

Number of Containers	Total ICP Metals	PHK, SO4, IPT, (OMP, TSS, Hardness)	LC50 Bioassay	100%

Sample Identification	Location	Depth	Date / Time Sampled	Matrix	Sampling Method	Enter tests above (✓ relevant samples below)
1 Site A		—	Jan 5/04	Water	Grab	2 ✓ ✓
2 Site B		—	↓			1 ✓
3 Site C		—		2 ✓ ✓		
4 Site D		—		2 ✓ ✓		
5 Culvert #2 (⊗)		—		5 ✓ ✓	✓	
6 G-300		—		Jan 6/04	Water	Grab
7		—				
8		—				
9		—				
10 (⊗) Bioassay (100%)		—				
11		—				
12		—				
13		—				
14		—				