



## 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

<b>Billing Address:</b> Company: <i>Laberge Environmental Services</i> Address: <i>P.O. Box 21072 Whitehorse, Y.T Y1A 6P7</i> Attention: <i>Bonnie Burns</i> Phone: <i>867-668-6838</i> Fax: Cell: e-mail: <i>laberge@internorth.com</i>		<b>Copy of Report To:</b> Company: Address: Attention: Phone: Fax: Cell: e-mail:		<b>Copy of invoice:</b> Mail invoice to this address for approval <input type="checkbox"/>	
QA/QC Report <input checked="" type="checkbox"/>		Report Result: Fax <input type="checkbox"/> Mail <input checked="" type="checkbox"/> Courier <input type="checkbox"/> e-mail <input checked="" type="checkbox"/>		Report Result: Fax <input type="checkbox"/> Mail <input type="checkbox"/> Courier <input type="checkbox"/> e-mail <input type="checkbox"/>	

<b>Information to be included on Report and Invoice</b> Project ID: <i>Keno Valley</i> Project Name: <i>Receiving Water Study</i> Project Location: <i>Elsa/Keno</i> Legal Location: PO#: Proj. Acct. Code: Agreement ID:	<b>RUSH</b> 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: _____	<b>Sample Custody (Please Print)</b> Sampled by: _____ Date _____ Company _____ Signature _____ Relinquished by: _____ Company _____ Date _____ Waybill number: _____ Received by: <i>JH</i> <i>NWL-SR1</i> Date <i>Aug 4/04</i> Company _____ Date _____
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**Special Instructions / Comments**  Check here if Norwest is required to report results directly to a regulatory body (Please include contact information)

NOTE: ① All dissolved metals samples have been filtered & preserved except for KV-5 + S. McQuesten d/s Haggart Cr  
② there are no 250 ml samples for KV-4. Do as much as you can with provided amount but please do SO4, TSS, ALK, PH & cond for sure

Number of Containers	PH, cond.	ALK	SO4	TSS	HARDNESS	Ultra trace total metals	Ultra trace dissolved metals	Ammonia	Nitrate	Nitrite
6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1							✓			

Sample Identification	Location	Depth IN CM M	Date / Time Sampled	Matrix	Sampling Method
2	KV-2 S. McQuesten at Pumphouse		July 30	"	
3	KV-3 S. McQuesten u/s Flat		July 31	"	
4	KV-4 S. McQuesten d/s Flat		July 31	"	
5	KV-5 S. McQuesten 9 km d/s Flat		July 31	"	
6	S. McQuesten d/s Haggart Cr		July 31	"	
7	KV-6 - Christal Cr. u/s Hwy		July 29	"	
8	KV-7 - Christal Cr u/s Hanson Rd		July 30	"	
9	KV-8(7B) Christal Cr @ mouth		July 30	"	
10	KV-37 Lightning Cr u/s Hope		July 30	"	
11	KV-38 Lightning Cr u/s Thunder Golf		July 30	"	
12	KV-41 Lightning Cr @ Keno		July 29	"	
13	KV-9 Flat Cr @ mouth		July 30	"	
14	B-1 Blank			"	
15					

NWL008 (08/01)



# 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:** Laberge Environmental Services  
**Report to:** Laberge Environmental Services  
Box 21072  
1-405 Ogilvie Street  
Whitehorse, YT, Canada  
Y1A 6P7  
Attn: Ken Nordin  
Sampled By:  
Company:

**Project**  
**ID:** Keno Valley  
**Name:** Receiving Water Study  
**Location:** Elsa / Keno  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 323984  
Control Number: E 133795  
Date Received: Aug 04, 2004  
Date Reported: Aug 10, 2004  
Report Number: 579320

Contact	Company	Address									
Ken Nordin Web x Email Notification x	Laberge Environmental Services	Box 21072, 1-405 Ogilvie Street Whitehorse, YT Y1A 6P7 Phone: (867) 668-1043 Fax: (867) 667-6956 Email: laberge@internorth.com									
<table border="1"> <thead> <tr> <th>Copies</th> <th>Delivery Strategy</th> <th>Format</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Post</td> <td></td> </tr> <tr> <td>1</td> <td>Email - Multiple Reports</td> <td>PDF</td> </tr> </tbody> </table>			Copies	Delivery Strategy	Format	1	Post		1	Email - Multiple Reports	PDF
Copies	Delivery Strategy	Format									
1	Post										
1	Email - Multiple Reports	PDF									

NOTE: **P** indicates a preliminary report is required  
NOTE: **A** indicates report is delivered using automated delivery

\_\_\_\_\_ # OF PAGES IN THIS TRANSMISSION

### Report Transmission Notes

- Agreement Notes
- Lot Notes
- Sample Notes:

**Notes to Clients**

**Lot Notes:**  
Some total metal results were less than dissolved metal results for lot 323984. The results were checked and are within the method uncertainty. 040809 JD

**Sample Notes:**

**Batch Notes:**

**Method Notes:**

**Method Result Notes:**

### Reports associated with this Lot

<u>Id/Format/Reported Date</u>	<u>Id/Format/Reported Date</u>	<u>Id/Format/Reported Date</u>
579320 Envir2QC 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.

8/10/04 579320 10-Aug-2004



# Sample Custody

Norwest Labs  
#104, 19575-55 A Ave.  
Surrey, BC. V3S 8P8  
Phone: (604) 514-3322  
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**Bill to:** Laberge Environmental Services  
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Box 21072  
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Whitehorse, YT, Canada  
Y1A 6P7  
Attn: Ken Nordin  
Sampled By:  
Company:

**Project**  
**ID:** Keno Valley  
**Name:** Receiving Water Study  
**Location:** Elsa / Keno  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 323984  
Control Number: E 133795  
Date Received: Aug 04, 2004  
Date Reported: Aug 10, 2004  
Report Number: 579320

## Sample Disposal Date: Sep 09, 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 Sep 09, 2004.



# Analytical Report

Norwest Labs  
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 Date Received: Aug 04, 2004  
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 Report Number: 579320

Analyte	Matrix	323984-1		323984-2		323984-3	
		Units	Results	Results	Results	Detection Limit	
<b>Inorganic Nonmetallic Parameters</b>							
Ammonium - N		mg/L	<0.05	<0.05	<0.05	0.05	
<b>Metals Dissolved</b>							
Silicon	Dissolved	mg/L	2.22	2.24	2.40	0.05	
Sulphur	Dissolved	mg/L	19.9	22.0	21.0	0.05	
Aluminum	Dissolved	mg/L	0.083	0.073	0.091	0.005	
Antimony	Dissolved	mg/L	<0.0002	<0.0002	<0.0002	0.0002	
Arsenic	Dissolved	mg/L	0.0014	0.0016	0.0017	0.0002	
Barium	Dissolved	mg/L	0.047	0.052	0.051	0.001	
Beryllium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001	
Bismuth	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005	
Boron	Dissolved	mg/L	0.003	0.002	0.002	0.002	
Cadmium	Dissolved	mg/L	0.00004	0.00020	0.00021	0.00001	
Chromium	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005	
Cobalt	Dissolved	mg/L	0.0005	0.0003	0.0004	0.0001	
Copper	Dissolved	mg/L	0.003	0.002	0.003	0.001	
Lead	Dissolved	mg/L	0.0002	0.0003	0.0003	0.0001	
Lithium	Dissolved	mg/L	0.004	0.004	0.004	0.001	
Molybdenum	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001	
Nickel	Dissolved	mg/L	0.0059	0.0047	0.0068	0.0005	
Selenium	Dissolved	mg/L	0.0004	0.0005	0.0006	0.0002	
Silver	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001	
Strontium	Dissolved	mg/L	0.149	0.156	0.138	0.001	
Thallium	Dissolved	mg/L	<0.00005	<0.00005	<0.00005	0.00005	
Tin	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001	
Titanium	Dissolved	mg/L	0.0013	0.0014	0.0014	0.0005	
Uranium	Dissolved	mg/L	0.0006	0.0007	0.0006	0.0005	
Vanadium	Dissolved	mg/L	0.0002	0.0002	0.0001	0.0001	
Zinc	Dissolved	mg/L	0.018	0.035	0.039	0.001	
<b>Metals Total</b>							
Calcium	Total	mg/L	39.7	44.6	41.3	0.2	
Iron	Total	mg/L	0.5	0.4	0.3	0.1	
Magnesium	Total	mg/L	12.9	13.6	13.1	0.1	
Manganese	Total	mg/L	0.090	0.084	0.085	0.005	
Potassium	Total	mg/L	0.5	0.6	0.5	0.4	



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 Sampled By:  
 Company:

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**Acct. Code:**

**NWL Lot ID:** 323984  
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 Date Reported: Aug 10, 2004  
 Report Number: 579320

Analyte	Units	NWL Number	323984-1	323984-2	323984-3	Detection Limit
		Sample Description	KV-1 / S. McQuesten u/s Christal / 30-Jul-04	KV-2 / S. McQuesten at Pumphouse / 30-Jul-04	KV-3 / S. McQuesten u/s Flat / 31-Jul-04	
		Matrix	Water - General	Water - General	Water - General	
<b>Metals Total - Continued</b>						
Silicon	Total	mg/L	2.42	2.42	2.46	0.05
Sodium	Total	mg/L	1.6	1.6	1.6	0.4
Sulphur	Total	mg/L	19.3	21.3	20.7	0.05
Aluminum	Total	mg/L	0.969	0.686	0.719	0.005
Antimony	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Arsenic	Total	mg/L	0.0022	0.0023	0.0022	0.0002
Barium	Total	mg/L	0.056	0.061	0.059	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	0.034	0.032	0.036	0.002
Cadmium	Total	mg/L	0.00013	0.00028	0.00028	0.00001
Chromium	Total	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Total	mg/L	0.0013	0.0007	0.0007	0.0001
Copper	Total	mg/L	0.006	0.004	0.005	0.001
Lead	Total	mg/L	0.0009	0.0018	0.0018	0.0001
Lithium	Total	mg/L	0.006	0.006	0.007	0.001
Molybdenum	Total	mg/L	<0.001	<0.001	<0.001	0.001
Nickel	Total	mg/L	0.0089	0.0069	0.0087	0.0005
Selenium	Total	mg/L	0.0004	0.0005	0.0005	0.0002
Silver	Total	mg/L	0.0004	0.0004	0.0004	0.0001
Strontium	Total	mg/L	0.152	0.157	0.143	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	0.0060	0.0069	0.0032	0.0005
Uranium	Total	mg/L	0.0008	0.0009	0.0007	0.0005
Vanadium	Total	mg/L	0.0007	0.0006	0.0004	0.0001
Zinc	Total	mg/L	0.064	0.080	0.075	0.001
Zirconium	Total	mg/L	<0.001	<0.001	<0.001	0.001
<b>Physical and Aggregate Properties</b>						
Temp. of observed pH and EC		°C	21.3	21.0	21.1	
Solids	Total Suspended	mg/L	13	8	4	1
<b>Routine Water</b>						
pH			7.95	8.03	7.95	
Electrical Conductivity		µS/cm at 25 C	300	315	290	1



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**Name:** Receiving Water Study  
**Location:** Elsa / Keno  
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**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 323984  
 Control Number: E 133795  
 Date Received: Aug 04, 2004  
 Date Reported: Aug 10, 2004  
 Report Number: 579320

Analyte	Matrix	Units	NWL Number	323984-1	323984-2	323984-3	Detection Limit
			Sample Description	Water - General	Water - General	Water - General	
			KV-1 / S. McQuesten u/s Christal / 30-Jul-04		KV-2 / S. McQuesten at Pumphouse / 30-Jul-04	KV-3 / S. McQuesten u/s Flat / 31-Jul-04	
<b>Routine Water - Continued</b>							
Calcium	Dissolved	mg/L	39.3	44.9	41.1	0.2	
Magnesium	Dissolved	mg/L	12.8	13.7	12.8	0.1	
Sodium	Dissolved	mg/L	1.6	1.5	1.4	0.4	
Potassium	Dissolved	mg/L	0.5	0.4	0.5	0.4	
Iron	Dissolved	mg/L	0.19	0.09	0.09	0.01	
Manganese	Dissolved	mg/L	0.065	0.058	0.066	0.005	
Nitrate - N		mg/L	<0.1	<0.1	0.1	0.1	
Nitrite - N		mg/L	<0.05	<0.05	<0.05	0.05	
Sulphate (SO4)	Dissolved	mg/L	59.6	66.1	62.8	0.2	
Hydroxide		mg/L	<5	<5	<5	5	
Carbonate		mg/L	<6	<6	<6	6	
Bicarbonate		mg/L	111	121	107	5	
P-Alkalinity	as CaCO3	mg/L	<5	<5	<5	5	
T-Alkalinity	as CaCO3	mg/L	91	99	88	5	
Hardness	Dissolved as CaCO3	mg/L	151	168	155		



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Analyte	Units	NWL Number	323984-4	323984-5	323984-6	Detection Limit
		Sample Description	KV-4 / S. McQuesten d/s Flat / 31-Jul-04	KV-5 / S. McQuesten 9km d/s Flat / 31-Jul-04	S. McQuesten d/s Haggart Cr / 31-Jul-04	
	Matrix	Water - General	Water - General	Water - General		
<b>Inorganic Nonmetallic Parameters</b>						
Ammonium - N	mg/L	<0.05	<0.05	<0.05	0.05	
<b>Metals Dissolved</b>						
Silicon	Dissolved mg/L	2.38	2.49	3.38	0.05	
Sulphur	Dissolved mg/L	24.1	22.4	17.2	0.05	
Aluminum	Dissolved mg/L	0.074	0.061	0.013	0.005	
Antimony	Dissolved mg/L	0.0002	0.0002	0.0005	0.0002	
Arsenic	Dissolved mg/L	0.0016	0.0036	0.0041	0.0002	
Barium	Dissolved mg/L	0.051	0.057	0.051	0.001	
Beryllium	Dissolved mg/L	<0.0001	<0.0001	<0.0001	0.0001	
Bismuth	Dissolved mg/L	<0.0005	<0.0005	<0.0005	0.0005	
Boron	Dissolved mg/L	0.002	0.006	0.005	0.002	
Cadmium	Dissolved mg/L	0.00023	0.00015	0.00002	0.00001	
Chromium	Dissolved mg/L	<0.0005	0.0005	<0.0005	0.0005	
Cobalt	Dissolved mg/L	0.0004	<0.0001	0.0014	0.0001	
Copper	Dissolved mg/L	0.003	0.003	0.001	0.001	
Lead	Dissolved mg/L	0.0004	0.0003	0.0001	0.0001	
Lithium	Dissolved mg/L	0.005	0.004	0.004	0.001	
Molybdenum	Dissolved mg/L	<0.001	<0.001	<0.001	0.001	
Nickel	Dissolved mg/L	0.0062	0.0053	0.0017	0.0005	
Selenium	Dissolved mg/L	0.0002	0.0005	0.0003	0.0002	
Silver	Dissolved mg/L	<0.0001	<0.0001	0.0001	0.0001	
Strontium	Dissolved mg/L	0.144	0.164	0.179	0.001	
Thallium	Dissolved mg/L	<0.00005	<0.00005	<0.00005	0.00005	
Tin	Dissolved mg/L	<0.001	<0.001	<0.001	0.001	
Titanium	Dissolved mg/L	0.0014	0.0013	0.0011	0.0005	
Uranium	Dissolved mg/L	0.0006	<0.0005	<0.0005	0.0005	
Vanadium	Dissolved mg/L	0.0001	0.0001	0.0001	0.0001	
Zinc	Dissolved mg/L	0.038	0.021	0.006	0.001	
<b>Metals Total</b>						
Calcium	Total mg/L	48.2	44.5	38.8	0.2	
Iron	Total mg/L	0.4	0.3	0.3	0.1	
Magnesium	Total mg/L	14.6	13.5	11.5	0.1	
Manganese	Total mg/L	0.092	0.072	0.030	0.005	
Potassium	Total mg/L	0.5	0.5	0.8	0.4	



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		Sample Description	KV-4 / S. McQuesten d/s Flat / 31-Jul-04	KV-5 / S. McQuesten 9km d/s Flat / 31-Jul-04	S. McQuesten d/s Haggart Cr / 31-Jul-04	
		Matrix	Water - General	Water - General	Water - General	
<b>Metals Total - Continued</b>						
Silicon	Total	mg/L	2.54	2.40	3.24	0.05
Sodium	Total	mg/L	1.7	1.6	1.6	0.4
Sulphur	Total	mg/L	24.4	20.5	16.0	0.05
Aluminum	Total	mg/L	0.648	0.616	0.184	0.005
Antimony	Total	mg/L	0.0003	0.0015	0.0005	0.0002
Arsenic	Total	mg/L	0.0024	0.0040	0.0041	0.0002
Barium	Total	mg/L	0.062	0.061	0.056	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	0.065	0.049	0.029	0.002
Cadmium	Total	mg/L	0.00038	0.00026	0.00003	0.00001
Chromium	Total	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Total	mg/L	0.0009	0.0004	0.0003	0.0001
Copper	Total	mg/L	0.005	0.004	0.002	0.001
Lead	Total	mg/L	0.0041	0.0028	0.0011	0.0001
Lithium	Total	mg/L	0.007	0.006	0.006	0.001
Molybdenum	Total	mg/L	<0.001	<0.001	<0.001	0.001
Nickel	Total	mg/L	0.0084	0.0066	0.0022	0.0005
Selenium	Total	mg/L	0.0005	0.0005	0.0005	0.0002
Silver	Total	mg/L	0.0003	0.0003	0.0003	0.0001
Strontium	Total	mg/L	0.153	0.159	0.176	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	0.0048	0.0036	0.0049	0.0005
Uranium	Total	mg/L	0.0008	0.0008	0.0008	0.0005
Vanadium	Total	mg/L	0.0004	0.0004	0.0004	0.0001
Zinc	Total	mg/L	0.080	0.067	0.018	0.001
Zirconium	Total	mg/L	<0.001	<0.001	<0.001	0.001
<b>Physical and Aggregate Properties</b>						
Temp. of observed pH and EC		°C	21.1	21.4	21.6	
Solids	Total Suspended	mg/L	2	4	100	1
<b>Routine Water</b>						
pH			7.95	8.01	8.04	
Electrical Conductivity		µS/cm at 25 C	330	314	274	1





# Analytical Report

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

**Bill to:** Laberge Environmental Services  
**Report to:** Laberge Environmental Services  
 Box 21072  
 1-405 Ogilvie Street  
 Whitehorse, YT, Canada  
 Y1A 6P7  
 Attn: Ken Nordin  
 Sampled By:  
 Company:

**Project**  
**ID:** Keno Valley  
**Name:** Receiving Water Study  
**Location:** Elsa / Keno  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 323984  
 Control Number: E 133795  
 Date Received: Aug 04, 2004  
 Date Reported: Aug 10, 2004  
 Report Number: 579320

Analyte	Units	NWL Number	323984-4	323984-5	323984-6	Detection Limit
		Sample Description	KV-4 / S. McQuesten d/s Flat / 31-Jul-04	KV-5 / S. McQuesten 9km d/s Flat / 31-Jul-04	S. McQuesten d/s Haggart Cr / 31-Jul-04	
		Matrix	Water - General	Water - General	Water - General	
<b>Routine Water - Continued</b>						
Calcium	Dissolved		46.4	44.8	39.9	0.2
Magnesium	Dissolved		14.0	14.2	11.9	0.1
Sodium	Dissolved		1.4	1.4	1.7	0.4
Potassium	Dissolved		0.5	0.5	0.8	0.4
Iron	Dissolved		0.07	0.06	0.06	0.01
Manganese	Dissolved		0.062	0.032	0.012	0.005
Nitrate - N			0.1	<0.1	<0.1	0.1
Nitrite - N			<0.05	<0.05	<0.05	0.05
Sulphate (SO4)	Dissolved		72.3	67.1	51.4	0.2
Hydroxide			<5	<5	<5	5
Carbonate			<6	<6	<6	6
Bicarbonate			119	119	113	5
P-Alkalinity	as CaCO3		<5	<5	<5	5
T-Alkalinity	as CaCO3		98	98	92	5
Hardness	Dissolved as CaCO3		174	170	148	



# Analytical Report

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

**Bill to:** Laberge Environmental Services  
**Report to:** Laberge Environmental Services  
 Box 21072  
 1-405 Ogilvie Street  
 Whitehorse, YT, Canada  
 Y1A 6P7  
 Attn: Ken Nordin  
 Sampled By:  
 Company:

**Project**  
**ID:** Keno Valley  
**Name:** Receiving Water Study  
**Location:** Elsa / Keno  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 323984  
 Control Number: E 133795  
 Date Received: Aug 04, 2004  
 Date Reported: Aug 10, 2004  
 Report Number: 579320

Analyte	Units	NWL Number	323984-7	323984-8	323984-9	Detection Limit
		Sample Description	KV-6 / Christal Cr u/s Hwy / 29-Jul-04 Matrix	KV-7 / Christal Cr u/s Hanson Rd / 30-Jul-04 Water - General	KV-8 (7B) / Christal Cr @ Mouth / 30-Jul-04 Water - General	
<b>Inorganic Nonmetallic Parameters</b>						
Ammonium - N	mg/L		<0.05	<0.05	<0.05	0.05
<b>Metals Dissolved</b>						
Silicon	Dissolved mg/L		2.48	2.51	2.45	0.05
Sulphur	Dissolved mg/L		93.6	53.8	53.5	0.05
Aluminum	Dissolved mg/L		<0.005	0.012	0.008	0.005
Antimony	Dissolved mg/L		0.0006	0.0003	0.0004	0.0002
Arsenic	Dissolved mg/L		0.0053	0.0022	0.0026	0.0002
Barium	Dissolved mg/L		0.053	0.047	0.043	0.001
Beryllium	Dissolved mg/L		<0.0001	<0.0001	<0.0001	0.0001
Bismuth	Dissolved mg/L		<0.0005	<0.0005	<0.0005	0.0005
Boron	Dissolved mg/L		0.003	0.002	<0.002	0.002
Cadmium	Dissolved mg/L		0.00279	0.00178	0.00276	0.00001
Chromium	Dissolved mg/L		<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Dissolved mg/L		0.0003	0.0003	0.0001	0.0001
Copper	Dissolved mg/L		<0.001	0.001	0.002	0.001
Lead	Dissolved mg/L		0.0018	0.0005	0.0006	0.0001
Lithium	Dissolved mg/L		0.013	0.005	0.005	0.001
Molybdenum	Dissolved mg/L		<0.001	<0.001	<0.001	0.001
Nickel	Dissolved mg/L		0.0046	0.0028	0.0027	0.0005
Selenium	Dissolved mg/L		0.0006	0.0006	0.0005	0.0002
Silver	Dissolved mg/L		<0.0001	<0.0001	<0.0001	0.0001
Strontium	Dissolved mg/L		0.217	0.181	0.181	0.001
Thallium	Dissolved mg/L		<0.00005	<0.00005	<0.00005	0.00005
Tin	Dissolved mg/L		<0.001	<0.001	<0.001	0.001
Titanium	Dissolved mg/L		0.0053	0.0030	0.0032	0.0005
Uranium	Dissolved mg/L		0.0052	0.0018	0.0017	0.0005
Vanadium	Dissolved mg/L		<0.0001	0.0001	<0.0001	0.0001
Zinc	Dissolved mg/L		0.417	0.388	0.503	0.001
<b>Metals Total</b>						
Calcium	Total mg/L		129	87.5	84.7	0.2
Iron	Total mg/L		0.3	2.1	0.6	0.1
Magnesium	Total mg/L		24.3	18.9	18.0	0.1
Manganese	Total mg/L		0.542	0.615	0.264	0.005
Potassium	Total mg/L		<0.4	0.5	<0.4	0.4
Silicon	Total mg/L		2.48	4.03	2.78	0.05



# Analytical Report

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

**Bill to:** Laberge Environmental Services  
**Report to:** Laberge Environmental Services  
 Box 21072  
 1-405 Ogilvie Street  
 Whitehorse, YT, Canada  
 Y1A 6P7  
 Attn: Ken Nordin  
 Sampled By:  
 Company:

**Project**  
**ID:** Keno Valley  
**Name:** Receiving Water Study  
**Location:** Elsa / Keno  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 323984  
 Control Number: E 133795  
 Date Received: Aug 04, 2004  
 Date Reported: Aug 10, 2004  
 Report Number: 579320

Analyte	Units	NWL Number	323984-7	323984-8	323984-9	Detection Limit
		Sample Description	KV-6 / Christal Cr u/s Hwy / 29-Jul-04 Matrix Water - General	KV-7 / Christal Cr u/s Hanson Rd / 30-Jul-04 Water - General	KV-8 (7B) / Christal Cr @ Mouth / 30-Jul-04 Water - General	
<b>Metals Total - Continued</b>						
Sodium	Total	mg/L	1.4	1.2	1.1	0.4
Sulphur	Total	mg/L	95.3	54.3	52.4	0.05
Aluminum	Total	mg/L	0.058	1.15	0.306	0.005
Antimony	Total	mg/L	0.0008	0.0006	0.0004	0.0002
Arsenic	Total	mg/L	0.0082	0.0092	0.0043	0.0002
Barium	Total	mg/L	0.061	0.084	0.055	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	0.031	0.031	0.033	0.002
Cadmium	Total	mg/L	0.00417	0.00413	0.00330	0.00001
Chromium	Total	mg/L	0.0006	0.0018	0.0005	0.0005
Cobalt	Total	mg/L	0.0006	0.0016	0.0005	0.0001
Copper	Total	mg/L	0.002	0.007	0.003	0.001
Lead	Total	mg/L	0.0193	0.0233	0.0068	0.0001
Lithium	Total	mg/L	0.016	0.008	0.007	0.001
Molybdenum	Total	mg/L	0.002	<0.001	<0.001	0.001
Nickel	Total	mg/L	0.0058	0.0075	0.0040	0.0005
Selenium	Total	mg/L	0.0007	0.0006	0.0008	0.0002
Silver	Total	mg/L	0.0003	0.0004	0.0003	0.0001
Strontium	Total	mg/L	0.230	0.188	0.183	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	0.0078	0.0501	0.0119	0.0005
Uranium	Total	mg/L	0.0057	0.0021	0.0019	0.0005
Vanadium	Total	mg/L	0.0002	0.0032	0.0009	0.0001
Zinc	Total	mg/L	0.520	0.753	0.569	0.001
Zirconium	Total	mg/L	<0.001	<0.001	<0.001	0.001
<b>Physical and Aggregate Properties</b>						
Temp. of observed pH and EC		°C	21.3	21.3	21.3	
Solids	Total Suspended	mg/L	5	75	14	1
<b>Routine Water</b>						
pH			7.92	8.06	7.97	
Electrical Conductivity		µS/cm at 25 C	756	534	528	1
Calcium	Dissolved	mg/L	128	86.2	86.5	0.2
Magnesium	Dissolved	mg/L	24.2	18.4	18.3	0.1



# Analytical Report

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

**Bill to:** Laberge Environmental Services  
**Report to:** Laberge Environmental Services  
 Box 21072  
 1-405 Ogilvie Street  
 Whitehorse, YT, Canada  
 Y1A 6P7  
 Attn: Ken Nordin  
 Sampled By:  
 Company:

**Project**  
**ID:** Keno Valley  
**Name:** Receiving Water Study  
**Location:** Elsa / Keno  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 323984  
 Control Number: E 133795  
 Date Received: Aug 04, 2004  
 Date Reported: Aug 10, 2004  
 Report Number: 579320

Analyte	Units	323984-7		323984-8		323984-9	
		Sample Description	Results	Results	Results	Detection Limit	
		NWL Number	323984-7	323984-8	323984-9		
		Sample Description	KV-6 / Christal Cr u/s Hwy / 29-Jul-04	KV-7 / Christal Cr u/s Hanson Rd / 30-Jul-04	KV-8 (7B) / Christal Cr @ Mouth / 30-Jul-04		
		Matrix	Water - General	Water - General	Water - General		
<b>Routine Water - Continued</b>							
Sodium	Dissolved	mg/L	1.3	1.1	1.1	0.4	
Potassium	Dissolved	mg/L	<0.4	<0.4	<0.4	0.4	
Iron	Dissolved	mg/L	0.07	0.07	0.07	0.01	
Manganese	Dissolved	mg/L	0.455	0.299	0.211	0.005	
Nitrate - N		mg/L	<0.1	0.2	0.1	0.1	
Nitrite - N		mg/L	<0.05	<0.05	<0.05	0.05	
Sulphate (SO4)	Dissolved	mg/L	281	161	160	0.2	
Hydroxide		mg/L	<5	<5	<5	5	
Carbonate		mg/L	<6	<6	<6	6	
Bicarbonate		mg/L	139	139	124	5	
P-Alkalinity	as CaCO3	mg/L	<5	<5	<5	5	
T-Alkalinity	as CaCO3	mg/L	114	114	102	5	
Hardness	Dissolved as CaCO3	mg/L	419	291	291		



# Analytical Report

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

**Bill to:** Laberge Environmental Services  
**Report to:** Laberge Environmental Services  
 Box 21072  
 1-405 Ogilvie Street  
 Whitehorse, YT, Canada  
 Y1A 6P7  
 Attn: Ken Nordin  
 Sampled By:  
 Company:

**Project**  
**ID:** Keno Valley  
**Name:** Receiving Water Study  
**Location:** Elsa / Keno  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 323984  
 Control Number: E 133795  
 Date Received: Aug 04, 2004  
 Date Reported: Aug 10, 2004  
 Report Number: 579320

Analyte	Units	NWL Number	323984-10	323984-11	323984-12	Detection Limit
		Sample Description	KV-37 / Lightning Cr. u/s Hope / 30-Jul-04	KV-38 / Lightning Cr u/s Thunder Gulch / 30-Jul-04	KV-41 / Lightning Cr @ Keno / 29-Jul-04	
		Matrix	Water - General	Water - General	Water - General	
<b>Inorganic Nonmetallic Parameters</b>						
Ammonium - N	mg/L		<0.05	<0.05	<0.05	0.05
<b>Metals Dissolved</b>						
Silicon	Dissolved	mg/L	2.24	2.49	2.52	0.05
Sulphur	Dissolved	mg/L	8.27	10.6	10.8	0.05
Aluminum	Dissolved	mg/L	0.016	0.016	0.019	0.005
Antimony	Dissolved	mg/L	<0.0002	0.0004	0.0004	0.0002
Arsenic	Dissolved	mg/L	0.0024	0.0032	0.0025	0.0002
Barium	Dissolved	mg/L	0.047	0.050	0.047	0.001
Beryllium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Bismuth	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Boron	Dissolved	mg/L	<0.002	<0.002	<0.002	0.002
Cadmium	Dissolved	mg/L	<0.00001	0.00045	0.00029	0.00001
Chromium	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Copper	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Lead	Dissolved	mg/L	0.0002	0.0004	0.0003	0.0001
Lithium	Dissolved	mg/L	<0.001	0.001	0.001	0.001
Molybdenum	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Nickel	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Selenium	Dissolved	mg/L	0.0003	0.0003	0.0004	0.0002
Silver	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Strontium	Dissolved	mg/L	0.048	0.062	0.062	0.001
Thallium	Dissolved	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Tin	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Titanium	Dissolved	mg/L	0.0005	0.0007	0.0008	0.0005
Uranium	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Vanadium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Zinc	Dissolved	mg/L	0.007	0.049	0.035	0.001
<b>Metals Total</b>						
Calcium	Total	mg/L	16.4	20.2	22.4	0.2
Iron	Total	mg/L	0.2	<0.1	0.9	0.1
Magnesium	Total	mg/L	2.6	3.2	3.7	0.1
Manganese	Total	mg/L	0.015	0.012	0.044	0.005
Potassium	Total	mg/L	<0.4	<0.4	<0.4	0.4



# Analytical Report

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

**Bill to:** Laberge Environmental Services  
**Report to:** Laberge Environmental Services  
 Box 21072  
 1-405 Ogilvie Street  
 Whitehorse, YT, Canada  
 Y1A 6P7  
 Attn: Ken Nordin  
 Sampled By:  
 Company:

**Project**  
**ID:** Keno Valley  
**Name:** Receiving Water Study  
**Location:** Elsa / Keno  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 323984  
 Control Number: E 133795  
 Date Received: Aug 04, 2004  
 Date Reported: Aug 10, 2004  
 Report Number: 579320

Analyte	Units	NWL Number	323984-10	323984-11	323984-12	Detection Limit
		Sample Description	KV-37 / Lightning Cr. u/s Hope / 30-Jul-04	KV-38 / Lightning Cr u/s Thunder Gulch / 30-Jul-04	KV-41 / Lightning Cr @ Keno / 29-Jul-04	
		Matrix	Water - General	Water - General	Water - General	
<b>Metals Total - Continued</b>						
Silicon	Total	mg/L	2.14	2.28	3.16	0.05
Sodium	Total	mg/L	0.6	0.6	0.7	0.4
Sulphur	Total	mg/L	7.99	10.0	10.5	0.05
Aluminum	Total	mg/L	0.072	0.044	0.782	0.005
Antimony	Total	mg/L	<0.0002	0.0004	0.0004	0.0002
Arsenic	Total	mg/L	0.0028	0.0032	0.0051	0.0002
Barium	Total	mg/L	0.054	0.056	0.072	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	0.024	0.004	0.004	0.002
Cadmium	Total	mg/L	<0.00001	0.00044	0.00042	0.00001
Chromium	Total	mg/L	<0.0005	<0.0005	0.0012	0.0005
Cobalt	Total	mg/L	0.0001	0.0001	0.0007	0.0001
Copper	Total	mg/L	0.001	0.001	0.004	0.001
Lead	Total	mg/L	0.0004	0.0019	0.0050	0.0001
Lithium	Total	mg/L	0.001	0.002	0.003	0.001
Molybdenum	Total	mg/L	<0.001	<0.001	<0.001	0.001
Nickel	Total	mg/L	0.0005	0.0007	0.0020	0.0005
Selenium	Total	mg/L	0.0004	0.0005	0.0004	0.0002
Silver	Total	mg/L	0.0002	0.0002	0.0002	0.0001
Strontium	Total	mg/L	0.051	0.065	0.067	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	0.0028	0.0013	0.0266	0.0005
Uranium	Total	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Vanadium	Total	mg/L	0.0002	0.0001	0.0019	0.0001
Zinc	Total	mg/L	0.008	0.051	0.055	0.001
Zirconium	Total	mg/L	<0.001	<0.001	<0.001	0.001
<b>Physical and Aggregate Properties</b>						
Temp. of observed pH and EC		°C	21.2	21.3	21.4	
Solids	Total Suspended	mg/L	5	5	38	1
<b>Routine Water</b>						
pH			7.53	7.66	7.74	
Electrical Conductivity		µS/cm at 25 C	114	139	148	1



# Analytical Report

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

**Bill to:** Laberge Environmental Services  
**Report to:** Laberge Environmental Services  
 Box 21072  
 1-405 Ogilvie Street  
 Whitehorse, YT, Canada  
 Y1A 6P7  
 Attn: Ken Nordin  
 Sampled By:  
 Company:

**Project**  
**ID:** Keno Valley  
**Name:** Receiving Water Study  
**Location:** Elsa / Keno  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 323984  
 Control Number: E 133795  
 Date Received: Aug 04, 2004  
 Date Reported: Aug 10, 2004  
 Report Number: 579320

Analyte	Matrix	Units	NWL Number	323984-10	323984-11	323984-12	Detection Limit
			Sample Description	Water - General	Water - General	Water - General	
			KV-37 / Lightning Cr. u/s Hope / 30-Jul-04		KV-38 / Lightning Cr u/s Thunder Gulch / 30-Jul-04	KV-41 / Lightning Cr @ Keno / 29-Jul-04	
<b>Routine Water - Continued</b>							
Calcium	Dissolved	mg/L	16.6	20.9	22.4	0.2	
Magnesium	Dissolved	mg/L	2.6	3.4	3.7	0.1	
Sodium	Dissolved	mg/L	0.5	0.6	0.7	0.4	
Potassium	Dissolved	mg/L	<0.4	<0.4	<0.4	0.4	
Iron	Dissolved	mg/L	0.04	0.03	0.05	0.01	
Manganese	Dissolved	mg/L	0.011	0.008	0.011	0.005	
Nitrate - N		mg/L	<0.1	<0.1	<0.1	0.1	
Nitrite - N		mg/L	<0.05	<0.05	<0.05	0.05	
Sulphate (SO4)	Dissolved	mg/L	24.8	31.8	32.6	0.2	
Hydroxide		mg/L	<5	<5	<5	5	
Carbonate		mg/L	<6	<6	<6	6	
Bicarbonate		mg/L	33	43	44	5	
P-Alkalinity	as CaCO3	mg/L	<5	<5	<5	5	
T-Alkalinity	as CaCO3	mg/L	27	36	36	5	
Hardness	Dissolved as CaCO3	mg/L	52.1	66.5	71.2		



# Analytical Report

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

**Bill to:** Laberge Environmental Services  
**Report to:** Laberge Environmental Services  
 Box 21072  
 1-405 Ogilvie Street  
 Whitehorse, YT, Canada  
 Y1A 6P7  
 Attn: Ken Nordin  
 Sampled By:  
 Company:

**Project**  
**ID:** Keno Valley  
**Name:** Receiving Water Study  
**Location:** Elsa / Keno  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 323984  
 Control Number: E 133795  
 Date Received: Aug 04, 2004  
 Date Reported: Aug 10, 2004  
 Report Number: 579320

NWL Number 323984-13  
 Sample Description KV-9 / Flat Cr @ Mouth  
 / 30-Jul-04

Matrix Water - General

Analyte	Units	Results	Results	Detection Limit
<b>Inorganic Nonmetallic Parameters</b>				
Ammonium - N	mg/L	<0.05		0.05
<b>Metals Total</b>				
Calcium	Total mg/L	112		0.2
Iron	Total mg/L	0.2		0.1
Magnesium	Total mg/L	30.1		0.1
Manganese	Total mg/L	0.065		0.005
Potassium	Total mg/L	0.5		0.4
Silicon	Total mg/L	2.87		0.05
Sodium	Total mg/L	2.8		0.4
Sulphur	Total mg/L	63.5		0.05
Aluminum	Total mg/L	0.021		0.005
Antimony	Total mg/L	0.0011		0.0002
Arsenic	Total mg/L	0.0035		0.0002
Barium	Total mg/L	0.079		0.001
Beryllium	Total mg/L	<0.0001		0.0001
Bismuth	Total mg/L	<0.0005		0.0005
Boron	Total mg/L	0.006		0.002
Cadmium	Total mg/L	0.00069		0.00001
Chromium	Total mg/L	<0.0005		0.0005
Cobalt	Total mg/L	0.0004		0.0001
Copper	Total mg/L	0.007		0.001
Lead	Total mg/L	0.0116		0.0001
Lithium	Total mg/L	0.011		0.001
Molybdenum	Total mg/L	<0.001		0.001
Nickel	Total mg/L	0.0105		0.0005
Selenium	Total mg/L	0.0002		0.0002
Silver	Total mg/L	0.0002		0.0001
Strontium	Total mg/L	0.274		0.001
Thallium	Total mg/L	<0.00005		0.00005
Tin	Total mg/L	<0.001		0.001
Titanium	Total mg/L	0.0045		0.0005
Uranium	Total mg/L	0.0014		0.0005
Vanadium	Total mg/L	0.0001		0.0001
Zinc	Total mg/L	0.085		0.001
Zirconium	Total mg/L	<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:** Laberge Environmental Services  
**Report to:** Laberge Environmental Services  
Box 21072  
1-405 Ogilvie Street  
Whitehorse, YT, Canada  
Y1A 6P7  
Attn: Ken Nordin  
Sampled By:  
Company:

**Project**  
**ID:** Keno Valley  
**Name:** Receiving Water Study  
**Location:** Elsa / Keno  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 323984  
Control Number: E 133795  
Date Received: Aug 04, 2004  
Date Reported: Aug 10, 2004  
Report Number: 579320

NWL Number 323984-13  
Sample Description KV-9 / Flat Cr @ Mouth  
/ 30-Jul-04  
Matrix Water - General

Analyte	Units	Results	Results	Results	Detection Limit
<b>Physical and Aggregate Properties</b>					
Temp. of observed pH and EC	°C	21 . 8			
Solids	Total Suspended	mg/L	8		1



# Analytical Report

Norwest Labs  
 #104, 19575-55 A Ave.  
 Surrey, BC. V3S 8P8  
 Phone: (604) 514-3322  
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**Bill to:** Laberge Environmental Services  
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 Box 21072  
 1-405 Ogilvie Street  
 Whitehorse, YT, Canada  
 Y1A 6P7  
 Attn: Ken Nordin  
 Sampled By:  
 Company:

**Project**  
**ID:** Keno Valley  
**Name:** Receiving Water Study  
**Location:** Elsa / Keno  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 323984  
 Control Number: E 133795  
 Date Received: Aug 04, 2004  
 Date Reported: Aug 10, 2004  
 Report Number: 579320

Analyte	Units	Results		Detection Limit
		Water - General	Water - General	
<b>Metals Dissolved</b>				
Silicon	Dissolved mg/L	3.04	<0.05	0.05
Sulphur	Dissolved mg/L	63.5	<0.05	0.05
Aluminum	Dissolved mg/L	<0.005	<0.005	0.005
Antimony	Dissolved mg/L	0.0010	<0.0002	0.0002
Arsenic	Dissolved mg/L	0.0027	<0.0002	0.0002
Barium	Dissolved mg/L	0.072	<0.001	0.001
Beryllium	Dissolved mg/L	<0.0001	<0.0001	0.0001
Bismuth	Dissolved mg/L	<0.0005	<0.0005	0.0005
Boron	Dissolved mg/L	0.003	<0.002	0.002
Cadmium	Dissolved mg/L	0.00044	<0.00001	0.00001
Chromium	Dissolved mg/L	<0.0005	<0.0005	0.0005
Cobalt	Dissolved mg/L	<0.0001	<0.0001	0.0001
Copper	Dissolved mg/L	0.002	<0.001	0.001
Lead	Dissolved mg/L	0.0009	0.0001	0.0001
Lithium	Dissolved mg/L	0.006	<0.001	0.001
Molybdenum	Dissolved mg/L	<0.001	<0.001	0.001
Nickel	Dissolved mg/L	0.0009	<0.0005	0.0005
Selenium	Dissolved mg/L	<0.0002	<0.0002	0.0002
Silver	Dissolved mg/L	<0.0001	<0.0001	0.0001
Strontium	Dissolved mg/L	0.248	<0.001	0.001
Thallium	Dissolved mg/L	<0.00005	<0.00005	0.00005
Tin	Dissolved mg/L	<0.001	<0.001	0.001
Titanium	Dissolved mg/L	0.0036	<0.0005	0.0005
Uranium	Dissolved mg/L	0.0012	<0.0005	0.0005
Vanadium	Dissolved mg/L	<0.0001	<0.0001	0.0001
Zinc	Dissolved mg/L	0.044	0.006	0.001
<b>Routine Water</b>				
pH		7.98	-	
Electrical Conductivity	µS/cm at 25 C	715	-	1
Calcium	Dissolved mg/L	114	<0.2	0.2
Magnesium	Dissolved mg/L	30.4	<0.1	0.1
Sodium	Dissolved mg/L	2.9	<0.4	0.4
Potassium	Dissolved mg/L	0.5	<0.4	0.4
Iron	Dissolved mg/L	0.03	0.02	0.01
Manganese	Dissolved mg/L	0.045	<0.005	0.005



# Analytical Report

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 Box 21072  
 1-405 Ogilvie Street  
 Whitehorse, YT, Canada  
 Y1A 6P7  
 Attn: Ken Nordin  
 Sampled By:  
 Company:

**Project**  
**ID:** Keno Valley  
**Name:** Receiving Water Study  
**Location:** Elsa / Keno  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 323984  
 Control Number: E 133795  
 Date Received: Aug 04, 2004  
 Date Reported: Aug 10, 2004  
 Report Number: 579320

Analyte	Units	Results		Detection Limit
		Water - General	Water - General	
<b>Routine Water - Continued</b>				
Nitrate - N	mg/L	<0.1	-	0.1
Nitrite - N	mg/L	<0.05	-	0.05
Sulphate (SO4)	Dissolved mg/L	190	-	0.2
Hydroxide	mg/L	<5	-	5
Carbonate	mg/L	<6	-	6
Bicarbonate	mg/L	247	-	5
P-Alkalinity	as CaCO3 mg/L	<5	-	5
T-Alkalinity	as CaCO3 mg/L	202	-	5
Hardness	Dissolved as CaCO3 mg/L	410	-	

Approved by:

Bill Warning, B.Sc.  
 Lab Operations Manager



## Quality Control

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 Box 21072  
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 Y1A 6P7  
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 Company:

**Project**  
**ID:** Keno Valley  
**Name:** Receiving Water Study  
**Location:** Elsa / Keno  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 323984  
 Control Number: E 133795  
 Date Received: Aug 04, 2004  
 Date Reported: Aug 10, 2004  
 Report Number: 579320

### Inorganic Nonmetallic Parameters

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Ammonium - N	mg/L	<0.05	0.00	-0.08	0.08	✓
Material Used:	Edmonton Method Blank					
Date Acquired:	Aug 06, 2004					
Acquired By:	Gordon Grensmann					
Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Ammonium - N	mg/L	0.12	0.12	9.99	0.10	✓
Material Used:	Edmonton Duplicate					
Date Acquired:	Aug 06, 2004					
Acquired By:	Gordon Grensmann					
Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Ammonium - N	mg/L	2.98	2.99	2.59	3.39	✓
Material Used:	Water High					
Date Acquired:	Aug 06, 2004					
Acquired By:	Gordon Grensmann					
Ammonium - N	mg/L	0.78	0.79	0.66	0.91	✓
Material Used:	Water Low					
Date Acquired:	Aug 06, 2004					
Acquired By:	Gordon Grensmann					



## Quality Control

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 Box 21072  
 1-405 Ogilvie Street  
 Whitehorse, YT, Canada  
 Y1A 6P7  
 Attn: Ken Nordin  
 Sampled By:  
 Company:

**Project**  
**ID:** Keno Valley  
**Name:** Receiving Water Study  
**Location:** Elsa / Keno  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 323984  
 Control Number: E 133795  
 Date Received: Aug 04, 2004  
 Date Reported: Aug 10, 2004  
 Report Number: 579320

### Metals Dissolved

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Silicon	mg/L	<0.05	0.00	-0.05	0.05	✓
Sulphur	mg/L	<0.05	0.08	-2.22	2.39	✓
Aluminum	ug/L	<5	-2	-8	4	✓
Antimony	ug/L	<0.2	0.0	-0.1	0.2	✓
Arsenic	ug/L	<0.2	0.0	0.0	0.0	✓
Barium	ug/L	<1	0	0	0	✓
Beryllium	ug/L	<0.1	0.0	0.0	0.0	✓
Bismuth	ug/L	<0.5	0.0	-0.1	0.1	✓
Boron	ug/L	<2	0	-2	2	✓
Cadmium	ug/L	<0.01	0.00	-0.01	0.01	✓
Chromium	ug/L	<0.5	-0.1	-0.4	0.2	✓
Cobalt	ug/L	<0.1	0.0	0.0	0.0	✓
Copper	ug/L	<1	0	-1	1	✓
Lead	ug/L	<0.1	0.0	0.0	0.0	✓
Lithium	ug/L	<1	0	0	0	✓
Molybdenum	ug/L	<1	0	0	0	✓
Nickel	ug/L	<0.5	0.0	-0.3	0.3	✓
Selenium	ug/L	<0.2	-0.1	-0.3	0.1	✓
Silver	ug/L	<0.1	0.0	0.0	0.0	✓
Strontium	ug/L	<1	0	0	0	✓
Thallium	ug/L	<0.05	0.00	0.00	0.01	✓
Tin	ug/L	<1	0	0	0	✓
Titanium	ug/L	<0.5	0.0	-0.2	0.1	✓
Uranium	ug/L	<0.5	0.0	0.0	0.0	✓
Vanadium	ug/L	<0.1	0.0	-0.1	0.0	✓
Zinc	ug/L	<1	0	-1	1	✓

Material Used: Edmonton Method Blank  
 Date Acquired: Aug 09, 2004  
 Acquired By: Jesse Dang



## Quality Control

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

**Bill to:** Laberge Environmental Services  
**Report to:** Laberge Environmental Services  
 Box 21072  
 1-405 Ogilvie Street  
 Whitehorse, YT, Canada  
 Y1A 6P7  
 Attn: Ken Nordin  
 Sampled By:  
 Company:

**Project**  
**ID:** Keno Valley  
**Name:** Receiving Water Study  
**Location:** Elsa / Keno  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 323984  
 Control Number: E 133795  
 Date Received: Aug 04, 2004  
 Date Reported: Aug 10, 2004  
 Report Number: 579320

### Metals Dissolved (Continued...)

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Silicon	mg/L	3.80	3.97	9.99	0.01	✓
Sulphur	mg/L	828	828	9.99	0.02	✓
Aluminum	ug/L	54	<50	10	11	✓
Antimony	ug/L	0.3	0.3	10.0	0.4	✓
Arsenic	ug/L	2.2	2.3	10.0	0.4	✓
Barium	ug/L	88	97	10	2	✓
Beryllium	ug/L	0.1	<1	10.0	0.2	✓
Bismuth	ug/L	<0.5	<5	10.0	1.1	✓
Boron	ug/L	55	<20	10	4	✓
Cadmium	ug/L	1.78	1.79	9.99	0.02	✓
Chromium	ug/L	0.5	<5	10.0	1.1	✓
Cobalt	ug/L	0.3	0.3	10.0	0.2	✓
Copper	ug/L	1	1	10	2	✓
Lead	ug/L	0.5	2.7	10.0	0.2	✓
Lithium	ug/L	5	5	10	2	✓
Molybdenum	ug/L	<1	<10	10	2	✓
Nickel	ug/L	2.8	2.9	10.0	1.1	✓
Selenium	ug/L	0.6	0.4	10.0	0.4	✓
Silver	ug/L	<0.1	<1	10.0	0.2	✓
Strontium	ug/L	283	300	10	2	✓
Thallium	ug/L	<0.05	<0.5	9.99	0.11	✓
Tin	ug/L	<1	<10	10	2	✓
Titanium	ug/L	3.0	3.2	10.0	1.1	✓
Uranium	ug/L	2.1	<5	10.0	1.1	✓
Vanadium	ug/L	1.2	1.3	10.0	0.2	✓
Zinc	ug/L	4	<10	10	2	✓

Material Used: Edmonton Duplicate  
 Date Acquired: Aug 06, 2004  
 Acquired By: Jesse Dang



## Quality Control

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

**Bill to:** Laberge Environmental Services  
**Report to:** Laberge Environmental Services  
 Box 21072  
 1-405 Ogilvie Street  
 Whitehorse, YT, Canada  
 Y1A 6P7  
 Attn: Ken Nordin  
 Sampled By:  
 Company:

**Project**  
**ID:** Keno Valley  
**Name:** Receiving Water Study  
**Location:** Elsa / Keno  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 323984  
**Control Number:** E 133795  
**Date Received:** Aug 04, 2004  
**Date Reported:** Aug 10, 2004  
**Report Number:** 579320

### Metals Dissolved (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Silicon	mg/L	26.0	25.0	22.5	27.5	✓
Sulphur	mg/L	48.0	49.8	44.6	55.0	✓
Material Used:	<b>Metals High</b>					
Date Acquired:	Aug 06, 2004					
Acquired By:	Fernando Maelalane					
Silicon	mg/L	0.49	0.50	0.45	0.55	✓
Sulphur	mg/L	0.93	1.02	0.81	1.23	✓
Aluminum	ug/L	972	1000	850	1150	✓
Antimony	ug/L	39.2	40.0	34.0	46.0	✓
Arsenic	ug/L	39.6	40.0	34.0	46.0	✓
Barium	ug/L	201	200	170	230	✓
Beryllium	ug/L	20.9	20.0	17.0	23.0	✓
Bismuth	ug/L	99.9	100	85	115	✓
Boron	ug/L	403	400	340	460	✓
Cadmium	ug/L	2.17	2.00	1.70	2.30	✓
Chromium	ug/L	99.5	100	85	115	✓
Cobalt	ug/L	20.4	20.0	17.0	23.0	✓
Copper	ug/L	196	200	170	230	✓
Lead	ug/L	20.2	20.0	17.0	23.0	✓
Lithium	ug/L	206	200	170	230	✓
Molybdenum	ug/L	196	200	170	230	✓
Nickel	ug/L	99.0	100	85	115	✓
Selenium	ug/L	39.0	40.0	34.0	46.0	✓
Silver	ug/L	20.5	20.0	17.0	23.0	✓
Strontium	ug/L	198	200	170	230	✓
Thallium	ug/L	9.94	10.0	8.5	11.5	✓
Tin	ug/L	195	200	170	230	✓
Titanium	ug/L	99.1	100	85	115	✓
Uranium	ug/L	99.6	100	85	115	✓
Vanadium	ug/L	19.9	20.0	17.0	23.0	✓
Zinc	ug/L	200	200	170	230	✓
Material Used:	<b>Metals Low</b>					
Date Acquired:	Aug 06, 2004					
Acquired By:	Jesse Dang					



## Quality Control

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

**Bill to:** Laberge Environmental Services  
**Report to:** Laberge Environmental Services  
 Box 21072  
 1-405 Ogilvie Street  
 Whitehorse, YT, Canada  
 Y1A 6P7  
 Attn: Ken Nordin  
 Sampled By:  
 Company:

**Project**  
**ID:** Keno Valley  
**Name:** Receiving Water Study  
**Location:** Elsa / Keno  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 323984  
 Control Number: E 133795  
 Date Received: Aug 04, 2004  
 Date Reported: Aug 10, 2004  
 Report Number: 579320

### Metals Dissolved (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Aluminum	uq/L	55	50	43	58	✓
Antimony	uq/L	2.0	2.0	1.7	2.3	✓
Arsenic	uq/L	2.0	2.0	1.7	2.3	✓
Barium	uq/L	10	10	9	12	✓
Beryllium	uq/L	1.1	1.0	0.9	1.2	✓
Bismuth	uq/L	5.0	5.0	4.3	5.8	✓
Boron	uq/L	22	20	17	23	✓
Cadmium	uq/L	0.11	0.10	0.09	0.12	✓
Chromium	uq/L	5.2	5.0	4.3	5.8	✓
Cobalt	uq/L	1.1	1.0	0.9	1.2	✓
Copper	uq/L	10	10	9	12	✓
Lead	uq/L	1.0	1.0	0.9	1.2	✓
Lithium	uq/L	11	10	9	12	✓
Molybdenum	uq/L	10	10	9	12	✓
Nickel	uq/L	5.2	5.0	4.3	5.8	✓
Selenium	uq/L	2.1	2.0	1.7	2.3	✓
Silver	uq/L	1.1	1.0	0.9	1.2	✓
Strontium	uq/L	10	10	9	12	✓
Thallium	uq/L	0.53	0.50	0.43	0.58	✓
Tin	uq/L	10	10	9	12	✓
Titanium	uq/L	5.2	5.0	4.3	5.8	✓
Uranium	uq/L	5.2	5.0	4.3	5.8	✓
Vanadium	uq/L	1.1	1.0	0.9	1.2	✓
Zinc	uq/L	10	10	9	12	✓

Material Used: Metals Trace  
 Date Acquired: Aug 09, 2004  
 Acquired By: Jesse Dang





## Quality Control

**Norwest Labs**  
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 Phone: (604) 514-3322  
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**Project**  
**ID:** Keno Valley  
**Name:** Receiving Water Study  
**Location:** Elsa / Keno  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 323984  
 Control Number: E 133795  
 Date Received: Aug 04, 2004  
 Date Reported: Aug 10, 2004  
 Report Number: 579320

### Metals Total

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Calcium	mg/L	<0.2	0.0	0.0	0.1	✓
Iron	mg/L	<0.1	0.0	0.0	0.0	✓
Magnesium	mg/L	<0.1	0.0	0.0	0.0	✓
Manganese	mg/L	<0.005	0.000	-0.001	0.001	✓
Potassium	mg/L	<0.4	0.0	-0.1	0.1	✓
Silicon	mg/L	<0.05	0.02	-0.04	0.09	✓
Sodium	mg/L	<0.4	0.1	-0.2	0.3	✓
Sulphur	mg/L	<0.05	0.01	-0.03	0.04	✓
Aluminum	ug/L	<5	0	-5	5	✓
Antimony	ug/L	<0.2	0.0	-0.2	0.2	✓
Arsenic	ug/L	<0.2	0.0	-0.2	0.2	✓
Barium	ug/L	<1	0	-1	1	✓
Beryllium	ug/L	<0.1	0.0	-0.1	0.1	✓
Bismuth	ug/L	<0.5	0.0	-0.5	0.5	✓
Boron	ug/L	<2	0	-2	2	✓
Cadmium	ug/L	<0.01	0.00	-0.01	0.01	✓
Chromium	ug/L	<0.5	0.0	-0.5	0.5	✓
Cobalt	ug/L	<0.1	0.0	-0.1	0.1	✓
Copper	ug/L	<1	0	-1	1	✓
Lead	ug/L	<0.1	0.0	-0.1	0.1	✓
Lithium	ug/L	<1	0	-1	1	✓
Molybdenum	ug/L	<1	0	-1	1	✓
Nickel	ug/L	<0.5	0.0	-0.5	0.5	✓
Selenium	ug/L	<0.2	0.0	-0.2	0.2	✓
Silver	ug/L	<0.1	0.0	-0.1	0.1	✓
Strontium	ug/L	<1	0	-1	1	✓
Thallium	ug/L	<0.05	0.00	-0.05	0.05	✓
Tin	ug/L	<1	0	-1	1	✓
Titanium	ug/L	<0.5	0.0	-0.5	0.5	✓
Uranium	ug/L	<0.5	0.0	-0.5	0.5	✓
Vanadium	ug/L	<0.1	0.0	-0.1	0.1	✓
Zinc	ug/L	<1	0	-1	1	✓
Zirconium	ug/L	<1	0	-1	1	✓

Material Used: Edmonton Method Blank  
 Date Acquired: Aug 05, 2004  
 Acquired By: Jesse Dang



## Quality Control

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

**Bill to:** Laberge Environmental Services  
**Report to:** Laberge Environmental Services  
 Box 21072  
 1-405 Ogilvie Street  
 Whitehorse, YT, Canada  
 Y1A 6P7  
 Attn: Ken Nordin  
 Sampled By:  
 Company:

**Project**  
**ID:** Keno Valley  
**Name:** Receiving Water Study  
**Location:** Elsa / Keno  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 323984  
 Control Number: E 133795  
 Date Received: Aug 04, 2004  
 Date Reported: Aug 10, 2004  
 Report Number: 579320

### Metals Total (Continued...)

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Calcium	mg/L	38.8	38.8	10.0	0.6	✓
Iron	mg/L	1.5	1.5	10.0	0.0	✓
Magnesium	mg/L	11.5	11.5	10.0	0.2	✓
Manganese	mg/L	0.030	0.031	9.990	0.001	✓
Potassium	mg/L	0.8	0.8	10.0	1.2	✓
Silicon	mg/L	3.24	3.35	9.99	0.01	✓
Sodium	mg/L	1.6	1.6	10.0	1.2	✓
Sulphur	mg/L	16.0	16.0	9.99	0.03	✓
Aluminum	ug/L	719	727	10	11	✓
Antimony	ug/L	<0.2	<0.2	10.0	0.4	✓
Arsenic	ug/L	2.2	2.2	10.0	0.4	✓
Barium	ug/L	66	68	10	2	✓
Beryllium	ug/L	<0.1	<0.1	10.0	0.2	✓
Bismuth	ug/L	<0.5	<0.5	10.0	1.1	✓
Boron	ug/L	7	6	10	4	✓
Cadmium	ug/L	0.28	0.28	9.99	0.02	✓
Chromium	ug/L	<0.5	<0.5	10.0	1.1	✓
Cobalt	ug/L	0.7	0.7	10.0	0.2	✓
Copper	ug/L	5	5	10	2	✓
Lead	ug/L	1.8	1.8	10.0	0.2	✓
Lithium	ug/L	7	7	10	2	✓
Molybdenum	ug/L	<1	<1	10	2	✓
Nickel	ug/L	8.7	8.9	10.0	1.1	✓
Selenium	ug/L	0.5	0.5	10.0	0.4	✓
Silver	ug/L	0.4	0.4	10.0	0.2	✓
Strontium	ug/L	143	141	10	2	✓
Thallium	ug/L	<0.05	<0.05	9.99	0.11	✓
Tin	ug/L	<1	<1	10	2	✓
Titanium	ug/L	3.2	3.3	10.0	1.1	✓
Uranium	ug/L	0.7	0.7	10.0	1.1	✓
Vanadium	ug/L	0.4	0.5	10.0	0.2	✓
Zinc	ug/L	75	75	10	2	✓
Zirconium	ug/L	<1	<1	10	2	✓

Material Used: Edmonton Duplicate  
 Date Acquired: Aug 05, 2004  
 Acquired By: Jesse Dane



## Quality Control

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

**Bill to:** Laberge Environmental Services  
**Report to:** Laberge Environmental Services  
 Box 21072  
 1-405 Ogilvie Street  
 Whitehorse, YT, Canada  
 Y1A 6P7  
 Attn: Ken Nordin  
 Sampled By:  
 Company:

**Project**  
**ID:** Keno Valley  
**Name:** Receiving Water Study  
**Location:** Elsa / Keno  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 323984  
 Control Number: E 133795  
 Date Received: Aug 04, 2004  
 Date Reported: Aug 10, 2004  
 Report Number: 579320

### Metals Total (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Calcium	mg/L	49.0	49.6	45.6	53.7	✓
Iron	mg/L	2.0	2.0	1.8	2.2	✓
Magnesium	mg/L	19.8	20.3	18.6	22.0	✓
Manganese	mg/L	0.486	0.479	0.451	0.507	✓
Potassium	mg/L	47.5	47.8	43.5	52.1	✓
Silicon	mg/L	4.69	5.00	4.50	5.50	✓
Sodium	mg/L	47.7	49.1	44.4	53.8	✓
Sulphur	mg/L	9.35	9.68	8.74	10.62	✓
Aluminum	ug/L	364	322	273	371	✓
Antimony	ug/L	11.0	11.5	10.2	12.8	✓
Arsenic	ug/L	10.8	11.5	10.3	12.7	✓
Barium	ug/L	62	61	52	69	✓
Beryllium	ug/L	5.6	5.9	4.9	7.0	✓
Bismuth	ug/L	30.3	30.2	26.0	34.4	✓
Boron	ug/L	126	125	102	148	✓
Cadmium	ug/L	0.74	0.63	0.47	0.78	✓
Chromium	ug/L	33.0	31.8	27.5	36.2	✓
Cobalt	ug/L	6.5	6.4	5.4	7.5	✓
Copper	ug/L	62	63	55	70	✓
Lead	ug/L	6.5	6.2	5.4	7.0	✓
Lithium	ug/L	74	65	53	76	✓
Molybdenum	ug/L	60	61	53	69	✓
Nickel	ug/L	31.3	31.4	27.0	35.8	✓
Selenium	ug/L	10.1	11.0	9.7	12.3	✓
Silver	ug/L	6.4	6.2	5.5	7.0	✓
Strontium	ug/L	62	64	55	72	✓
Thallium	ug/L	3.18	3.14	2.56	3.72	✓
Tin	ug/L	58	59	52	66	✓
Titanium	ug/L	33.0	31.5	27.0	36.0	✓
Uranium	ug/L	31.2	30.8	26.9	34.7	✓
Vanadium	ug/L	6.6	6.5	5.4	7.6	✓
Zinc	ug/L	68	59	49	69	✓
Zirconium	ug/L	61	62	53	72	✓

Material Used: Edmonton Digestion Check  
 Date Acquired: Aug 05, 2004  
 Acquired By: Jesse Dang



## Quality Control

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

**Bill to:** Laberge Environmental Services  
**Report to:** Laberge Environmental Services  
Box 21072  
1-405 Ogilvie Street  
Whitehorse, YT, Canada  
Y1A 6P7  
Attn: Ken Nordin  
Sampled By:  
Company:

**Project**  
**ID:** Keno Valley  
**Name:** Receiving Water Study  
**Location:** Elsa / Keno  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 323984  
Control Number: E 133795  
Date Received: Aug 04, 2004  
Date Reported: Aug 10, 2004  
Report Number: 579320

Page: 25 of 32

### Metals Total (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Calcium	mg/L	245	253	232	274	✓
Iron	mg/L	9.6	9.7	9.1	10.3	✓
Magnesium	mg/L	95.2	102	92	112	✓
Manganese	mg/L	2.35	2.45	2.27	2.63	✓
Potassium	mg/L	248	253	226	280	✓
Silicon	mg/L	24.9	25.0	22.5	27.5	✓
Sodium	mg/L	253	251	221	281	✓
Sulphur	mg/L	48.9	50.0	46.3	53.7	✓

Material Used: Metals High  
Date Acquired: Aug 05, 2004  
Acquired By:



## Quality Control

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

**Bill to:** Laberge Environmental Services  
**Report to:** Laberge Environmental Services  
Box 21072  
1-405 Ogilvie Street  
Whitehorse, YT, Canada  
Y1A 6P7  
Attn: Ken Nordin  
Sampled By:  
Company:

**Project**  
**ID:** Keno Valley  
**Name:** Receiving Water Study  
**Location:** Elsa / Keno  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 323984  
Control Number: E 133795  
Date Received: Aug 04, 2004  
Date Reported: Aug 10, 2004  
Report Number: 579320

Page: 26 of 32

### Metals Total (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Calcium	mg/L	4.8	4.7	4.3	5.2	✓
Iron	mg/L	0.2	0.2	0.2	0.2	✓
Magnesium	mg/L	1.8	1.9	1.7	2.1	✓
Manganese	mg/L	0.048	0.048	0.043	0.052	✓
Potassium	mg/L	4.8	5.0	4.4	5.6	✓
Silicon	mg/L	0.47	0.50	0.45	0.55	✓
Sodium	mg/L	4.9	5.2	4.4	6.1	✓
Sulphur	mg/L	0.92	0.98	0.82	1.13	✓
Aluminum	ug/L	924	1000	850	1150	✓
Antimony	ug/L	40.0	40.0	34.0	46.0	✓
Arsenic	ug/L	39.2	40.0	34.0	46.0	✓
Barium	ug/L	206	200	170	230	✓
Beryllium	ug/L	19.4	20.0	17.0	23.0	✓
Bismuth	ug/L	99.1	100	85	115	✓
Boron	ug/L	385	400	340	460	✓
Cadmium	ug/L	2.09	2.00	1.70	2.30	✓
Chromium	ug/L	95.7	100	85	115	✓
Cobalt	ug/L	20.2	20.0	17.0	23.0	✓
Copper	ug/L	196	200	170	230	✓
Lead	ug/L	20.5	20.0	17.0	23.0	✓
Lithium	ug/L	203	200	170	230	✓
Molybdenum	ug/L	199	200	170	230	✓
Nickel	ug/L	99.2	100	85	115	✓
Selenium	ug/L	39.2	40.0	34.0	46.0	✓
Silver	ug/L	21.1	20.0	17.0	23.0	✓
Strontium	ug/L	194	200	170	230	✓
Thallium	ug/L	10.4	10.0	8.5	11.5	✓
Tin	ug/L	196	200	170	230	✓
Titanium	ug/L	97.1	100	85	115	✓
Uranium	ug/L	98.1	100	85	115	✓
Vanadium	ug/L	19.7	20.0	17.0	23.0	✓
Zinc	ug/L	198	200	170	230	✓
Zirconium	ug/L	197	200	170	230	✓

Material Used: Metals Low  
Date Acquired: Aug 05, 2004  
Acquired By: Jesse Dang



## Quality Control

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

**Bill to:** Laberge Environmental Services  
**Report to:** Laberge Environmental Services  
 Box 21072  
 1-405 Ogilvie Street  
 Whitehorse, YT, Canada  
 Y1A 6P7  
 Attn: Ken Nordin  
 Sampled By:  
 Company:

**Project**  
**ID:** Keno Valley  
**Name:** Receiving Water Study  
**Location:** Elsa / Keno  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 323984  
 Control Number: E 133795  
 Date Received: Aug 04, 2004  
 Date Reported: Aug 10, 2004  
 Report Number: 579320

### Metals Total (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Aluminum	uq/L	53	50	43	58	✓
Antimony	uq/L	1.9	2.0	1.7	2.3	✓
Arsenic	uq/L	2.0	2.0	1.7	2.3	✓
Barium	uq/L	10	10	9	12	✓
Beryllium	uq/L	1.0	1.0	0.9	1.2	✓
Bismuth	uq/L	5.0	5.0	4.3	5.8	✓
Boron	uq/L	20	20	17	23	✓
Cadmium	uq/L	0.11	0.10	0.09	0.12	✓
Chromium	uq/L	5.1	5.0	4.3	5.8	✓
Cobalt	uq/L	1.0	1.0	0.9	1.2	✓
Copper	uq/L	10	10	9	12	✓
Lead	uq/L	1.0	1.0	0.9	1.2	✓
Lithium	uq/L	10	10	9	12	✓
Molybdenum	uq/L	10	10	9	12	✓
Nickel	uq/L	5.3	5.0	4.3	5.8	✓
Selenium	uq/L	2.1	2.0	1.7	2.3	✓
Silver	uq/L	1.0	1.0	0.9	1.2	✓
Strontium	uq/L	10	10	9	12	✓
Thallium	uq/L	0.51	0.50	0.43	0.58	✓
Tin	uq/L	9	10	9	12	✓
Titanium	uq/L	5.0	5.0	4.3	5.8	✓
Uranium	uq/L	5.0	5.0	4.3	5.8	✓
Vanadium	uq/L	1.0	1.0	0.9	1.2	✓
Zinc	uq/L	10	10	9	12	✓
Zirconium	uq/L	10	10	9	12	✓

Material Used: Metals Trace  
 Date Acquired: Aug 05, 2004  
 Acquired By: Jesse Dang



## Quality Control

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

**Bill to:** Laberge Environmental Services  
**Report to:** Laberge Environmental Services  
 Box 21072  
 1-405 Ogilvie Street  
 Whitehorse, YT, Canada  
 Y1A 6P7  
 Attn: Ken Nordin  
 Sampled By:  
 Company:

**Project**  
**ID:** Keno Valley  
**Name:** Receiving Water Study  
**Location:** Elsa / Keno  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID: 323984**  
 Control Number: E 133795  
 Date Received: Aug 04, 2004  
 Date Reported: Aug 10, 2004  
 Report Number: 579320

### Physical and Aggregate Properties

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Solids	mg/L	70	68	10	15	✓
Material Used:	Edmonton Duplicate					
Date Acquired:	Aug 09, 2004					
Acquired By:	Shawn Berube					
Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Solids	mg/L	199	200	180	220	✓
Material Used:	Water High					
Date Acquired:	Aug 09, 2004					
Acquired By:	Shawn Berube					
Solids	mg/L	20	20	18	22	✓
Material Used:	Water Low					
Date Acquired:	Aug 09, 2004					
Acquired By:	Shawn Berube					



## Quality Control

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

**Bill to:** Laberge Environmental Services  
**Report to:** Laberge Environmental Services  
 Box 21072  
 1-405 Ogilvie Street  
 Whitehorse, YT, Canada  
 Y1A 6P7  
 Attn: Ken Nordin  
 Sampled By:  
 Company:

**Project**  
**ID:** Keno Valley  
**Name:** Receiving Water Study  
**Location:** Elsa / Keno  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 323984  
 Control Number: E 133795  
 Date Received: Aug 04, 2004  
 Date Reported: Aug 10, 2004  
 Report Number: 579320

### Routine Water

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Calcium	mg/L	<0.2	0.0	-0.2	0.2	✓
Magnesium	mg/L	<0.1	0.0	-0.1	0.1	✓
Sodium	mg/L	<0.4	0.0	-0.4	0.4	✓
Potassium	mg/L	<0.4	0.0	-0.4	0.4	✓
Iron	mg/L	<0.01	0.00	-0.01	0.01	✓
Manganese	mg/L	<0.005	0.000	-0.005	0.005	✓
Nitrate - N	mg/L	<0.1	0.0	-0.1	0.1	✓
Nitrite - N	mg/L	<0.05	0.00	-0.05	0.05	✓

Material Used: Edmonton Method Blank  
 Date Acquired: Aug 06, 2004  
 Acquired By: Jodi Johnston

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
pH		8.34	8.36	9.99	0.10	✓
Electrical Conductivity	dS/m at 25 C	0.299	0.293	9.990	0.002	✓
Calcium	mg/L	453	459	10.0	0.6	✓
Magnesium	mg/L	9.7	9.8	10.0	0.2	✓
Sodium	mg/L	300	302	10.0	1.2	✓
Potassium	mg/L	17	16	10.0	1.2	✓
Iron	mg/L	0.09	0.09	9.99	0.01	✓
Manganese	mg/L	0.066	0.066	9.990	0.001	✓
Nitrate - N	mg/L	1.4	1.4	10.0	0.0	✓
Nitrite - N	mg/L	<0.05	<0.05	9.99	0.01	✓

Material Used: Edmonton Duplicate  
 Date Acquired: Aug 06, 2004  
 Acquired By:





## Quality Control

**Norwest Labs**  
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 Surrey, BC. V3S 8P8  
 Phone: (604) 514-3322  
 Fax: (604) 514-3323

**Bill to:** Laberge Environmental Services  
**Report to:** Laberge Environmental Services  
 Box 21072  
 1-405 Ogilvie Street  
 Whitehorse, YT, Canada  
 Y1A 6P7  
 Attn: Ken Nordin  
 Sampled By:  
 Company:

**Project**  
**ID:** Keno Valley  
**Name:** Receiving Water Study  
**Location:** Elsa / Keno  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 323984  
 Control Number: E 133795  
 Date Received: Aug 04, 2004  
 Date Reported: Aug 10, 2004  
 Report Number: 579320

### Routine Water (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Calcium	mg/L	253	251	237	265	✓
Magnesium	mg/L	98.6	102	95	109	✓
Sodium	mg/L	259	250	236	264	✓
Potassium	mg/L	256	251	234	268	✓
Iron	mg/L	9.50	9.73	9.26	10.20	✓
Manganese	mg/L	2.44	2.42	2.32	2.53	✓
Material Used: <b>Metals High</b>						
Date Acquired: <b>Aug 09, 2004</b>						
Acquired By: <b>Fernando Maglalang</b>						
Calcium	mg/L	5.1	4.8	4.3	5.3	✓
Magnesium	mg/L	1.9	2.0	1.7	2.2	✓
Sodium	mg/L	5.0	5.2	4.3	6.1	✓
Potassium	mg/L	5.0	5.0	4.5	5.4	✓
Iron	mg/L	0.24	0.20	0.15	0.24	✓
Manganese	mg/L	0.049	0.049	0.044	0.054	✓
Material Used: <b>Metals Low</b>						
Date Acquired: <b>Aug 06, 2004</b>						
Acquired By: <b>Fernando Maglalang</b>						
pH		9.19	9.23	9.11	9.35	✓
Electrical Conductivity	dS/m at 25 C	2.72	2.73	2.61	2.85	✓
Nitrate - N	mg/L	10.1	10.0	9.6	10.4	✓
Nitrite - N	mg/L	9.95	10.0	9.6	10.4	✓
P-Alkalinity	mg/L	519	520	473	567	✓
T-Alkalinity	mg/L	1010	1005	972	1038	✓
Material Used: <b>Water High</b>						
Date Acquired: <b>Aug 05, 2004</b>						
Acquired By: <b>Amanda Mitchell</b>						
pH		6.86	6.90	6.83	6.97	✓
Electrical Conductivity	dS/m at 25 C	0.077	0.076	0.070	0.081	✓
Nitrate - N	mg/L	0.5	0.5	0.4	0.6	✓
Nitrite - N	mg/L	0.51	0.50	0.44	0.55	✓
P-Alkalinity	mg/L	64	57	39	75	✓
T-Alkalinity	mg/L	128	128	119	137	✓
Material Used: <b>Water Low</b>						
Date Acquired: <b>Aug 05, 2004</b>						
Acquired By: <b>Amanda Mitchell</b>						



## Methodology and Notes

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

**Bill to:** Laberge Environmental Services  
**Report to:** Laberge Environmental Services  
 Box 21072  
 1-405 Ogilvie Street  
 Whitehorse, YT, Canada  
 Y1A 6P7  
 Attn: Ken Nordin  
 Sampled By:  
 Company:

**Project**  
**ID:** Keno Valley  
**Name:** Receiving Water Study  
**Location:** Elsa / Keno  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** **323984**  
**Control Number:** E 133795  
**Date Received:** Aug 04, 2004  
**Date Reported:** Aug 10, 2004  
**Report Number:** 579320

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### Method of Analysis:

MethodName	Reference	Method	Date Analysis Started	Location
Alkalinity, pH, and EC in water	APHA	* Conductivity - Laboratory Method, 2510 B	5-Aug-04	Norwest Labs Edmonton
Alkalinity, pH, and EC in water	APHA	* Electrometric Method, 4500-H+ B	5-Aug-04	Norwest Labs Edmonton
Alkalinity, pH, and EC in water	APHA	* Titration Method, 2320 B	5-Aug-04	Norwest Labs Edmonton
Ammonium in Water	APHA	* Automated Phenate Method, 4500-NH3 G	6-Aug-04	Norwest Labs Edmonton
Anions (Routine) by Ion Chromatography	APHA	Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	6-Aug-04	Norwest Labs Edmonton
Metals ICP-MS (Dissolved) in water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	9-Aug-04	Norwest Labs Edmonton
Metals ICP-MS (Dissolved) in water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	10-Aug-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	5-Aug-04	Norwest Labs Edmonton
Metals Trace (Dissolved) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	6-Aug-04	Norwest Labs Edmonton
Metals Trace (Dissolved) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	6-Aug-04	Norwest Labs Edmonton
Metals Trace (Dissolved) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	9-Aug-04	Norwest Labs Edmonton
Metals Trace (Total) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	5-Aug-04	Norwest Labs Edmonton
Metals Trace (Total) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	5-Aug-04	Norwest Labs Edmonton
Solids Suspended (Total, Fixed and Volatile)	APHA	* Total Suspended Solids Dried at 103-105°C, 2540 D	9-Aug-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:

Some total metal results were less than dissolved metal results for lot 323984. The results were checked and are within the method uncertainty. 040809 JD

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



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