



# NORWEST LABS

LOT 366415

Control Number E 223182

## 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>  |  | <b>Copy of Report To:</b> |  | <b>Copy of invoice:</b> <input type="checkbox"/> |  |
| Company: <b>Laberge Environmental Services</b> QA/QC Report <input type="checkbox"/> |  | Company:                  |  | Mail invoice to this <input type="checkbox"/>    |  |
| Address: <b>P.O. Box 21072</b>   |  | Address:                  |  | address for approval <input type="checkbox"/>    |  |
| <b>1-405 Ogilvie Street</b>  |  |                           |  |  |  |
| <b>Whitehorse, YT, Y1A 6P7</b>   |  |                           |  |  |  |
| Attention: <b>Ken Nordin</b> <i>BONNIE BURNS</i>                                     |  | Attention:                |  | Report Result:                                   |  |
| Phone: <b>(867) 668-6838</b>   |  | Phone:                    |  | Fax <input type="checkbox"/>                     |  |
| Fax: <b>(867) 667-6956</b>   |  | Fax:                      |  | Mail <input type="checkbox"/>                    |  |
| Cell:  |  | Cell:                     |  | Courier <input type="checkbox"/>                 |  |
| e-mail: <b>laberge@internorth.com</b>  |  | e-mail:                   |  | e-mail <input type="checkbox"/>                  |  |
|  |  |                           |  | e-service <input type="checkbox"/>               |  |

|   |  |  |
|---|--|--|
| <b>Information to be included on Report and Invoice</b> | <b>RUSH</b> Please contact the laboratory to confirm rush dates and times before submitting samples.   | <b>Sample Custody (Please Print)</b>   |
|   | Upon filling out this section, client accepts that surcharges will be attached to this analysis<br>Required on: all analyses or as indicated<br><input type="checkbox"/> or <input type="checkbox"/> | Relinquished by: <i>Ken Nordin</i><br>Company: <i>LES</i> Signature: <i>[Signature]</i>  |
| Project ID: <b>Keno Valley Receiving</b>                | Date Required: _____   | I authorize Norwest Labs to proceed with the work indicated on this form:<br>Date: _____ |
| Project Name:   | Signature: _____   | Initials: <b>RECEIVED</b>  |
| Project Location:                                       | Norwest Authorization: _____   | Received by: <input type="checkbox"/> Coolers  |
| Legal Location:   |  | Waybill # <b>MAR 01 2005</b> Date: _____ <input type="checkbox"/> Boxes                  |
| PO#:  |  | Company: <i>LES</i> Time: _____ <input type="checkbox"/> Samples                         |
| Proj. Acct. Code:                                       |  | Received By: _____ Date: _____   |
| Agreement ID: <b>17654</b>                              |  | Company: _____ Time: _____   |

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

*All total and Dissolved metals have been preserved with Nitric. All Diss. metals have been field filtered.*

*2005 [Signature]*

| Sample Identification          | Location     | Depth | Date / Time Sampled | Matrix                | Sampling Method | Number of Containers | Enter tests above (✓ relevant samples below) |    |   |     |    |      |    |     |     |       |       |   |   |   |
|--------------------------------|--------------|-------|---------------------|-----------------------|-----------------|----------------------|--|----|---|-----|----|------|----|-----|-----|-------|-------|---|---|---|
|                                |              |       |                     |                       |                 |                      | IN   | CM | M | ALK | EC | HARD | PH | SO4 | TSS | TW 21 | TW 22 |   |   |   |
| 1 <i>Lightning v/s Thunder</i> | <i>KV-38</i> | —     | <i>2-27</i>         | <i>H<sub>2</sub>O</i> | <i>GRAB</i>     | <i>3</i>             | ✓  | ✓  | ✓ | ✓   | ✓  | ✓    | ✓  | ✓   | ✓   | ✓     | ✓     | ✓ | ✓ | ✓ |
| 2 <i>Lightning @ keno</i>      | <i>KV-41</i> | —     | <i>2-27</i>         | <i>H<sub>2</sub>O</i> | <i>GRAB</i>     | <i>3</i>             | ✓  | ✓  | ✓ | ✓   | ✓  | ✓    | ✓  | ✓   | ✓   | ✓     | ✓     | ✓ | ✓ | ✓ |
| 3 <i>S. McQ v/s Flat</i>       | <i>KV-3</i>  | —     | <i>2-26</i>         | <i>H<sub>2</sub>O</i> | <i>GRAB</i>     | <i>3</i>             | ✓  | ✓  | ✓ | ✓   | ✓  | ✓    | ✓  | ✓   | ✓   | ✓     | ✓     | ✓ | ✓ | ✓ |
| 4 <i>S. McQ 300 D/S Flat</i>   | <i>KV-4</i>  | —     | <i>2-26</i>         | <i>H<sub>2</sub>O</i> | <i>GRAB</i>     | <i>3</i>             | ✓  | ✓  | ✓ | ✓   | ✓  | ✓    | ✓  | ✓   | ✓   | ✓     | ✓     | ✓ | ✓ | ✓ |
| 5 <i>S. McQ 9 Km D/S Flat</i>  | <i>KV-5</i>  | —     | <i>2-26</i>         | <i>H<sub>2</sub>O</i> | <i>GRAB</i>     | <i>3</i>             | ✓  | ✓  | ✓ | ✓   | ✓  | ✓    | ✓  | ✓   | ✓   | ✓     | ✓     | ✓ | ✓ | ✓ |
| 6 <i>Lightning v/s Hope</i>    | <i>KV-37</i> | —     | <i>2-27</i>         | <i>H<sub>2</sub>O</i> | <i>GRAB</i>     | <i>3</i>             | ✓  | ✓  | ✓ | ✓   | ✓  | ✓    | ✓  | ✓   | ✓   | ✓     | ✓     | ✓ | ✓ | ✓ |
| 7                              |              | —     |                     |                       |                 |                      |  |    |   |     |    |      |    |     |     |       |       |   |   |   |
| 8                              |              | —     |                     |                       |                 |                      |  |    |   |     |    |      |    |     |     |       |       |   |   |   |
| 9                              |              | —     |                     |                       |                 |                      |  |    |   |     |    |      |    |     |     |       |       |   |   |   |
| 10                             |              | —     |                     |                       |                 |                      |  |    |   |     |    |      |    |     |     |       |       |   |   |   |
| 11                             |              | —     |                     |                       |                 |                      |  |    |   |     |    |      |    |     |     |       |       |   |   |   |
| 12                             |              | —     |                     |                       |                 |                      |  |    |   |     |    |      |    |     |     |       |       |   |   |   |
| 13                             |              | —     |                     |                       |                 |                      |  |    |   |     |    |      |    |     |     |       |       |   |   |   |
| 14                             |              | —     |                     |                       |                 |                      |  |    |   |     |    |      |    |     |     |       |       |   |   |   |
| 15                             |              | —     |                     |                       |                 |                      |  |    |   |     |    |      |    |     |     |       |       |   |   |   |



# 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: Ken Nordin  
Company: LES

**Project**  
**ID:** Keno Valley Receiving  
**Name:**  
**Location:**  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID: 366415**  
Control Number: E 223182  
Date Received: Mar 01, 2005  
Date Reported: Mar 07, 2005  
Report Number: 667722

| Contact   | Company                        | Address   |                   |        |   |      |  |     |                       |     |     |                       |               |                     |
|---|--------------------------------|---|-------------------|--------|---|------|--|-----|-----------------------|-----|-----|-----------------------|---------------|---------------------|
| Ken Nordin<br>Web x<br>Email Notification x   | Laberge Environmental Services | Box 21072, 1-405 Ogilvie Street<br>Whitehorse, YT Y1A 6P7<br>Phone: (867) 668-6838<br>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>A 1</td> <td>Email - Single Report</td> <td>PDF</td> </tr> <tr> <td>A 1</td> <td>Email - Single Report</td> <td>Standard List</td> </tr> </tbody> </table> |                                | Copies  | Delivery Strategy | Format | 1 | Post |  | A 1 | Email - Single Report | PDF | A 1 | Email - Single Report | Standard List | Fax: (867) 667-6956 |
| Copies  | Delivery Strategy              | Format  |                   |        |   |      |  |     |                       |     |     |                       |               |                     |
| 1   | Post                           |   |                   |        |   |      |  |     |                       |     |     |                       |               |                     |
| A 1   | Email - Single Report          | PDF   |                   |        |   |      |  |     |                       |     |     |                       |               |                     |
| A 1   | Email - Single Report          | Standard List   |                   |        |   |      |  |     |                       |     |     |                       |               |                     |

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:

Field filtered and preserved metals bottle included in routine analysis and subsampled accordingly. AH 3-4-5

Some total metal results were less than dissolved metal results for samples 366415-1-6 . The results were checked and are within the method uncertainty.050307FM.

##### Sample Notes:

##### Batch Notes:

##### Method Notes:

##### Method Result Notes:

## Reports associated with this Lot

Id/Format/Reported Date  
667722 Env2 3 Smp & DL

Id/Format/Reported Date

Id/Format/Reported Date

## 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.

3/7/05

667722 07-Mar-2005



# 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  
**Report to:** Laberge Environmental Services  
Box 21072  
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Whitehorse, YT, Canada  
Y1A 6P7  
Attn: Ken Nordin  
Sampled By: Ken Nordin  
Company: LES

**Project**  
**ID:** Keno Valley Receiving  
**Name:**  
**Location:**  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 366415  
Control Number: E 223182  
Date Received: Mar 01, 2005  
Date Reported: Mar 07, 2005  
Report Number: 667722

## Sample Disposal Date: Apr 06, 2005

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 Apr 06, 2005.



# Analytical Report

Norwest Labs  
 #104, 19575-55 A Ave.  
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 Phone: (604) 514-3322  
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 Box 21072  
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 Attn: Ken Nordin  
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**NWL Lot ID:** 366415  
**Control Number:** E 223182  
**Date Received:** Mar 01, 2005  
**Date Reported:** Mar 07, 2005  
**Report Number:** 667722

| Analyte                 | Units     | 366415-1                                   |                                       | 366415-2                              |                                     | 366415-3                            |                                     |
|-------------------------|-----------|--|---------------------------------------|---------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
|                         |           | Lightning U/S Thunder / KV-38 / Feb. 27/05 | Lightning @ Keno / KV-41 / Feb. 27/05 | Lightning @ Keno / KV-41 / Feb. 27/05 | S. McQ U/S Flat / KV-3 / Feb. 26/05 | S. McQ U/S Flat / KV-3 / Feb. 26/05 | S. McQ U/S Flat / KV-3 / Feb. 26/05 |
|                         |           | Matrix                                     | Water - General                       | Water - General                       | Water - General                     | Water - General                     | Detection Limit                     |
| <b>Metals Dissolved</b> |           |  |                                       |                                       |                                     |                                     |                                     |
| Silicon                 | Dissolved | mg/L                                       | 2.90                                  | 3.29                                  | 3.26                                | 0.05                                |                                     |
| Sulfur                  | Dissolved | mg/L                                       | 10.2                                  | 17.8                                  | 30.4                                | 0.3                                 |                                     |
| Aluminum                | Dissolved | mg/L                                       | <0.005                                | <0.005                                | <0.005                              | 0.005                               |                                     |
| Antimony                | Dissolved | mg/L                                       | <0.0002                               | 0.0002                                | <0.0002                             | 0.0002                              |                                     |
| Arsenic                 | Dissolved | mg/L                                       | 0.0028                                | 0.0017                                | 0.0013                              | 0.0002                              |                                     |
| Barium                  | Dissolved | mg/L                                       | 0.053                                 | 0.051                                 | 0.085                               | 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                                | 0.004                               | 0.002                               |                                     |
| Cadmium                 | Dissolved | mg/L                                       | 0.00017                               | 0.00014                               | 0.00011                             | 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                                       | 0.0001                                | 0.0001                                | 0.0002                              | 0.0001                              |                                     |
| Lithium                 | Dissolved | mg/L                                       | 0.001                                 | 0.002                                 | 0.004                               | 0.001                               |                                     |
| Molybdenum              | Dissolved | mg/L                                       | <0.001                                | <0.001                                | 0.001                               | 0.001                               |                                     |
| Nickel                  | Dissolved | mg/L                                       | <0.0005                               | <0.0005                               | 0.0009                              | 0.0005                              |                                     |
| Selenium                | Dissolved | mg/L                                       | 0.0006                                | 0.0007                                | 0.0002                              | 0.0002                              |                                     |
| Silver                  | Dissolved | mg/L                                       | <0.0001                               | <0.0001                               | <0.0001                             | 0.0001                              |                                     |
| Strontium               | Dissolved | mg/L                                       | 0.090                                 | 0.100                                 | 0.252                               | 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                                | <0.0005                             | 0.0005                              |                                     |
| Uranium                 | Dissolved | mg/L                                       | <0.0005                               | 0.0008                                | 0.0010                              | 0.0005                              |                                     |
| Vanadium                | Dissolved | mg/L                                       | 0.0001                                | 0.0001                                | 0.0001                              | 0.0001                              |                                     |
| Zinc                    | Dissolved | mg/L                                       | 0.021                                 | 0.019                                 | 0.030                               | 0.001                               |                                     |
| <b>Metals Total</b>     |           |  |                                       |                                       |                                     |                                     |                                     |
| Calcium                 | Total     | mg/L                                       | 25.3                                  | 36.3                                  | 67.8                                | 0.2                                 |                                     |
| Iron                    | Total     | mg/L                                       | <0.1                                  | <0.1                                  | 0.2                                 | 0.1                                 |                                     |
| Magnesium               | Total     | mg/L                                       | 4.8                                   | 6.4                                   | 21.4                                | 0.1                                 |                                     |
| Manganese               | Total     | mg/L                                       | <0.005                                | 0.010                                 | 0.063                               | 0.005                               |                                     |
| Potassium               | Total     | mg/L                                       | <0.4                                  | <0.4                                  | 0.7                                 | 0.4                                 |                                     |
| Silicon                 | Total     | mg/L                                       | 3.54                                  | 3.39                                  | 3.30                                | 0.05                                |                                     |
| Sodium                  | Total     | mg/L                                       | 1.0                                   | 1.1                                   | 2.9                                 | 0.4                                 |                                     |
| Sulfur                  | Total     | mg/L                                       | 12.2                                  | 17.9                                  | 31.3                                | 0.3                                 |                                     |



# Analytical Report

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**Project**  
**ID:** Keno Valley Receiving  
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**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 366415  
**Control Number:** E 223182  
**Date Received:** Mar 01, 2005  
**Date Reported:** Mar 07, 2005  
**Report Number:** 667722

| Analyte                                  | Units           | 366415-1 |          | 366415-2 |          | 366415-3        |  |
|--|-----------------|----------|----------|----------|----------|-----------------|--|
|  |                 | Matrix   | Results  | Results  | Results  | Detection Limit |  |
| <b>Metals Total - Continued</b>          |                 |          |          |          |          |                 |  |
| Aluminum                                 | Total           | mg/L     | <0.005   | 0.020    | 0.014    | 0.005           |  |
| Antimony                                 | Total           | mg/L     | 0.0003   | 0.0002   | <0.0002  | 0.0002          |  |
| Arsenic                                  | Total           | mg/L     | 0.0027   | 0.0020   | 0.0020   | 0.0002          |  |
| Barium                                   | Total           | mg/L     | 0.054    | 0.052    | 0.082    | 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     | 0.041    | 0.023    | 0.008    | 0.002           |  |
| Cadmium                                  | Total           | mg/L     | 0.00016  | 0.00013  | 0.00013  | 0.00001         |  |
| Chromium                                 | Total           | mg/L     | <0.0005  | <0.0005  | <0.0005  | 0.0005          |  |
| Cobalt                                   | Total           | mg/L     | <0.0001  | <0.0001  | <0.0001  | 0.0001          |  |
| Copper                                   | Total           | mg/L     | <0.001   | <0.001   | <0.001   | 0.001           |  |
| Lead                                     | Total           | mg/L     | 0.0003   | 0.0005   | 0.0013   | 0.0001          |  |
| Lithium                                  | Total           | mg/L     | 0.001    | 0.002    | 0.004    | 0.001           |  |
| Molybdenum                               | Total           | mg/L     | <0.001   | <0.001   | 0.001    | 0.001           |  |
| Nickel                                   | Total           | mg/L     | <0.0005  | <0.0005  | 0.0028   | 0.0005          |  |
| Selenium                                 | Total           | mg/L     | 0.0007   | 0.0010   | 0.0003   | 0.0002          |  |
| Silver                                   | Total           | mg/L     | <0.0001  | <0.0001  | 0.0002   | 0.0001          |  |
| Strontium                                | Total           | mg/L     | 0.086    | 0.098    | 0.250    | 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     | 0.0008   | 0.0016   | 0.0015   | 0.0005          |  |
| Uranium                                  | Total           | mg/L     | <0.0005  | 0.0009   | 0.0011   | 0.0005          |  |
| Vanadium                                 | Total           | mg/L     | 0.0005   | 0.0004   | 0.0018   | 0.0001          |  |
| Zinc                                     | Total           | mg/L     | 0.020    | 0.020    | 0.034    | 0.001           |  |
| Zirconium                                | Total           | mg/L     | <0.001   | <0.001   | 0.001    | 0.001           |  |
| <b>Physical and Aggregate Properties</b> |                 |          |          |          |          |                 |  |
| Solids                                   | Total Suspended | mg/L     | <2       | <2       | <2       | 1               |  |
| <b>Routine Water</b>                     |                 |          |          |          |          |                 |  |
| pH                                       | Water           | pH       | 7.6      | 7.8      | 7.6      |                 |  |
| Electrical Conductivity                  | Water           | uS/cm    | 181      | 239      | 485      | 1               |  |
| Calcium                                  | Dissolved       | mg/L     | 24.3     | 35.0     | 67.0     | 0.2             |  |
| Magnesium                                | Dissolved       | mg/L     | 4.2      | 6.0      | 20.8     | 0.1             |  |
| Sodium                                   | Dissolved       | mg/L     | 1.1      | 1.3      | 3.0      | 0.4             |  |
| Potassium                                | Dissolved       | mg/L     | <0.4     | <0.4     | 0.8      | 0.4             |  |
| Iron                                     | Dissolved       | mg/L     | <0.01    | 0.02     | 0.04     | 0.01            |  |



# Analytical Report

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| Analyte                          | Units              | 366415-1                                   |        | 366415-2                              |        | 366415-3                            |        |       |
|----------------------------------|--------------------|--|--------|---------------------------------------|--------|-------------------------------------|--------|-------|
|                                  |                    | Lightning U/S Thunder / KV-38 / Feb. 27/05 | Matrix | Lightning @ Keno / KV-41 / Feb. 27/05 | Matrix | S. McQ U/S Flat / KV-3 / Feb. 26/05 | Matrix |       |
| <b>Routine Water - Continued</b> |                    |  |        |                                       |        |                                     |        |       |
| Manganese                        | Dissolved          | mg/L                                       | <0.005 | mg/L                                  | <0.005 | mg/L                                | 0.059  | 0.005 |
| Sulfate (SO4)                    | Dissolved          | mg/L                                       | 35.6   | mg/L                                  | 52.6   | mg/L                                | 92.5   | 0.1   |
| Hydroxide                        | Water              | mg/L                                       | <5     | mg/L                                  | <5     | mg/L                                | <5     | 5     |
| Carbonate                        | Water              | mg/L                                       | <6     | mg/L                                  | <6     | mg/L                                | <6     | 5     |
| Bicarbonate                      | Water              | mg/L                                       | 60     | mg/L                                  | 76     | mg/L                                | 206    | 5     |
| T-Alkalinity                     | as CaCO3           | mg/L                                       | 49     | mg/L                                  | 62     | mg/L                                | 169    | 5     |
| Hardness                         | Dissolved as CaCO3 | mg/L                                       | 77.9   | mg/L                                  | 112    | mg/L                                | 253    |       |



# 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: Ken Nordin  
 Company: LES

**Project**  
**ID:** Keno Valley Receiving  
**Name:**  
**Location:**  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 366415  
 Control Number: E 223182  
 Date Received: Mar 01, 2005  
 Date Reported: Mar 07, 2005  
 Report Number: 667722

| Analyte                 | Units     | 366415-4                                |                 | 366415-5                                 |                 | 366415-6                                |                 |
|-------------------------|-----------|---|-----------------|--|-----------------|---|-----------------|
|                         |           | Sample Description                      | Matrix          | Sample Description                       | Matrix          | Sample Description                      | Matrix          |
|                         |           | S. McQ 300 D/S Flat / KV-4 / Feb. 26/05 | Water - General | S. McQ 9 km D/S Flat / KV-5 / Feb. 26/05 | Water - General | Lightning U/S Hope / KV-37 / Feb. 27/05 | Water - General |
|                         |           | <b>Results</b>                          | <b>Results</b>  | <b>Results</b>                           | <b>Results</b>  | <b>Detection Limit</b>                  |                 |
| <b>Metals Dissolved</b> |           |   |                 |  |                 |   |                 |
| Silicon                 | Dissolved | mg/L                                    | 3.28            | 3.36                                     | 3.73            | 0.05                                    |                 |
| Sulfur                  | Dissolved | mg/L                                    | 31.1            | 29.3                                     | 6.5             | 0.3                                     |                 |
| Aluminum                | Dissolved | mg/L                                    | <0.005          | <0.005                                   | <0.005          | 0.005                                   |                 |
| Antimony                | Dissolved | mg/L                                    | <0.0002         | <0.0002                                  | <0.0002         | 0.0002                                  |                 |
| Arsenic                 | Dissolved | mg/L                                    | 0.0013          | 0.0015                                   | 0.0029          | 0.0002                                  |                 |
| Barium                  | Dissolved | mg/L                                    | 0.087           | 0.091                                    | 0.059           | 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                                    | 0.004           | 0.004                                    | <0.002          | 0.002                                   |                 |
| Cadmium                 | Dissolved | mg/L                                    | 0.00012         | 0.00009                                  | <0.00001        | 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          | 0.0002                                   | 0.0001          | 0.0001                                  |                 |
| Lithium                 | Dissolved | mg/L                                    | 0.004           | 0.004                                    | <0.001          | 0.001                                   |                 |
| Molybdenum              | Dissolved | mg/L                                    | 0.001           | 0.001                                    | <0.001          | 0.001                                   |                 |
| Nickel                  | Dissolved | mg/L                                    | 0.0009          | <0.0005                                  | <0.0005         | 0.0005                                  |                 |
| Selenium                | Dissolved | mg/L                                    | 0.0002          | 0.0003                                   | 0.0004          | 0.0002                                  |                 |
| Silver                  | Dissolved | mg/L                                    | <0.0001         | <0.0001                                  | <0.0001         | 0.0001                                  |                 |
| Strontium               | Dissolved | mg/L                                    | 0.259           | 0.257                                    | 0.067           | 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         | <0.0005                                  | <0.0005         | 0.0005                                  |                 |
| Uranium                 | Dissolved | mg/L                                    | 0.0010          | 0.0010                                   | <0.0005         | 0.0005                                  |                 |
| Vanadium                | Dissolved | mg/L                                    | 0.0001          | 0.0001                                   | 0.0001          | 0.0001                                  |                 |
| Zinc                    | Dissolved | mg/L                                    | 0.030           | 0.024                                    | <0.001          | 0.001                                   |                 |
| <b>Metals Total</b>     |           |   |                 |  |                 |   |                 |
| Calcium                 | Total     | mg/L                                    | 66.5            | 67.8                                     | 17.6            | 0.2                                     |                 |
| Iron                    | Total     | mg/L                                    | 0.2             | 0.2                                      | <0.1            | 0.1                                     |                 |
| Magnesium               | Total     | mg/L                                    | 20.9            | 21.2                                     | 3.5             | 0.1                                     |                 |
| Manganese               | Total     | mg/L                                    | 0.057           | 0.055                                    | 0.006           | 0.005                                   |                 |
| Potassium               | Total     | mg/L                                    | 0.5             | 0.5                                      | <0.4            | 0.4                                     |                 |
| Silicon                 | Total     | mg/L                                    | 3.21            | 3.44                                     | 3.90            | 0.05                                    |                 |
| Sodium                  | Total     | mg/L                                    | 2.8             | 3.0                                      | 1.0             | 0.4                                     |                 |
| Sulfur                  | Total     | mg/L                                    | 30.8            | 30.0                                     | 6.6             | 0.3                                     |                 |



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

**Project**  
**ID:** Keno Valley Receiving  
**Name:**  
**Location:**  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 366415  
**Control Number:** E 223182  
**Date Received:** Mar 01, 2005  
**Date Reported:** Mar 07, 2005  
**Report Number:** 667722

| Analyte                                  | Units           | 366415-4                                |                 | 366415-5                                 |                 | 366415-6                                |                 |
|--|-----------------|---|-----------------|--|-----------------|---|-----------------|
|  |                 | Sample Description                      | Matrix          | Sample Description                       | Matrix          | Sample Description                      | Matrix          |
|  |                 | S. McQ 300 D/S Flat / KV-4 / Feb. 26/05 | Water - General | S. McQ 9 km D/S Flat / KV-5 / Feb. 26/05 | Water - General | Lightning U/S Hope / KV-37 / Feb. 27/05 | Water - General |
|  |                 |   | Results         |  | Results         |   | Detection Limit |
| <b>Metals Total - Continued</b>          |                 |   |                 |  |                 |   |                 |
| Aluminum                                 | Total           | mg/L                                    | 0.006           | 0.010                                    | 0.011           | 0.005                                   |                 |
| Antimony                                 | Total           | mg/L                                    | <0.0002         | <0.0002                                  | <0.0002         | 0.0002                                  |                 |
| Arsenic                                  | Total           | mg/L                                    | 0.0018          | 0.0027                                   | 0.0032          | 0.0002                                  |                 |
| Barium                                   | Total           | mg/L                                    | 0.082           | 0.094                                    | 0.060           | 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                                    | 0.008           | 0.009                                    | 0.005           | 0.002                                   |                 |
| Cadmium                                  | Total           | mg/L                                    | 0.00013         | 0.00009                                  | <0.00001        | 0.00001                                 |                 |
| Chromium                                 | Total           | mg/L                                    | <0.0005         | <0.0005                                  | <0.0005         | 0.0005                                  |                 |
| Cobalt                                   | Total           | mg/L                                    | <0.0001         | <0.0001                                  | <0.0001         | 0.0001                                  |                 |
| Copper                                   | Total           | mg/L                                    | <0.001          | 0.009                                    | <0.001          | 0.001                                   |                 |
| Lead                                     | Total           | mg/L                                    | 0.0006          | 0.0008                                   | 0.0001          | 0.0001                                  |                 |
| Lithium                                  | Total           | mg/L                                    | 0.004           | 0.004                                    | <0.001          | 0.001                                   |                 |
| Molybdenum                               | Total           | mg/L                                    | <0.001          | 0.001                                    | <0.001          | 0.001                                   |                 |
| Nickel                                   | Total           | mg/L                                    | 0.0022          | 0.0024                                   | <0.0005         | 0.0005                                  |                 |
| Selenium                                 | Total           | mg/L                                    | 0.0003          | 0.0003                                   | 0.0003          | 0.0002                                  |                 |
| Silver                                   | Total           | mg/L                                    | 0.0001          | <0.0001                                  | <0.0001         | 0.0001                                  |                 |
| Strontium                                | Total           | mg/L                                    | 0.234           | 0.253                                    | 0.068           | 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                                    | 0.0015          | 0.0014                                   | 0.0007          | 0.0005                                  |                 |
| Uranium                                  | Total           | mg/L                                    | 0.0010          | 0.0011                                   | <0.0005         | 0.0005                                  |                 |
| Vanadium                                 | Total           | mg/L                                    | 0.0010          | 0.0010                                   | 0.0005          | 0.0001                                  |                 |
| Zinc                                     | Total           | mg/L                                    | 0.031           | 0.026                                    | 0.001           | 0.001                                   |                 |
| Zirconium                                | Total           | mg/L                                    | <0.001          | <0.001                                   | <0.001          | 0.001                                   |                 |
| <b>Physical and Aggregate Properties</b> |                 |   |                 |  |                 |   |                 |
| Solids                                   | Total Suspended | mg/L                                    | <2              | <2                                       | <2              | 1                                       |                 |
| <b>Routine Water</b>                     |                 |   |                 |  |                 |   |                 |
| pH                                       | Water           | pH                                      | 7.8             | 7.8                                      | 7.8             |   |                 |
| Electrical Conductivity                  | Water           | uS/cm                                   | 489             | 492                                      | 121             | 1                                       |                 |
| Calcium                                  | Dissolved       | mg/L                                    | 66.1            | 66.7                                     | 16.2            | 0.2                                     |                 |
| Magnesium                                | Dissolved       | mg/L                                    | 20.5            | 20.6                                     | 3.1             | 0.1                                     |                 |
| Sodium                                   | Dissolved       | mg/L                                    | 2.9             | 3.1                                      | 0.9             | 0.4                                     |                 |
| Potassium                                | Dissolved       | mg/L                                    | 0.6             | 0.5                                      | <0.4            | 0.4                                     |                 |
| Iron                                     | Dissolved       | mg/L                                    | 0.04            | 0.03                                     | <0.01           | 0.01                                    |                 |





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

**Project ID:** Keno Valley Receiving  
**Name:**  
**Location:**  
**LSD:**  
**P.O.:**  
**Acct. Code:**

**NWL Lot ID:** 366415  
Control Number: E 223182  
Date Received: Mar 01, 2005  
Date Reported: Mar 07, 2005  
Report Number: 667722

| Analyte                          | Units              | 366415-4                                 |                 | 366415-5 |         | 366415-6 |                 |
|----------------------------------|--------------------|--|-----------------|----------|---------|----------|-----------------|
|                                  |                    | Sample Description                       | Matrix          | Results  | Results | Results  | Detection Limit |
| <b>Routine Water - Continued</b> |                    |  |                 |          |         |          |                 |
| Manganese                        | Dissolved          | S. McQ 300 D/S Flat / KV-4 / Feb. 26/05  | Water - General | 0.056    | 0.049   | <0.005   | 0.005           |
| Sulfate (SO4)                    | Dissolved          | S. McQ 9 km D/S Flat / KV-5 / Feb. 26/05 | Water - General | 94.7     | 89.4    | 18.1     | 0.1             |
| Hydroxide                        | Water              | Lightning U/S Hope / KV-37 / Feb. 27/05  | Water - General | <5       | <5      | <5       | 5               |
| Carbonate                        | Water              |  |                 | <6       | <6      | <6       | 5               |
| Bicarbonate                      | Water              |  |                 | 196      | 211     | 47       | 5               |
| T-Alkalinity                     | as CaCO3           |  |                 | 160      | 173     | 38       | 5               |
| Hardness                         | Dissolved as CaCO3 |  |                 | 250      | 251     | 53.4     |                 |

Approved by:

Bill Warning, B.Sc.  
Lab Operations Manager



## Methodology and Notes

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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Y1A 6P7  
Attn: Ken Nordin  
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**Project**  
**ID:** Keno Valley Receiving  
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**NWL Lot ID:** 366415  
**Control Number:** E 223182  
**Date Received:** Mar 01, 2005  
**Date Reported:** Mar 07, 2005  
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Page: 7 of 7

### Method of Analysis:

| MethodName                                   | Reference | Method  | Date Analysis Started | Location              |
|--|-----------|---|-----------------------|-----------------------|
| Alkalinity (Surrey)                          | APHA      | * Titration Method, 2320 B  | 4-Mar-05              | Norwest Labs Surrey   |
| Anions by IEC in water (Surrey)              | APHA      | * Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B  | 7-Mar-05              | Norwest Labs Surrey   |
| Conductivity (Surrey)                        | APHA      | * Conductivity - Laboratory Method, 2510 B                              | 2-Mar-05              | Norwest Labs Surrey   |
| Metals ICP-MS (Dissolved) in water           | US EPA    | * Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 | 4-Mar-05              | Norwest Labs Edmonton |
| Metals ICP-MS (Total) in water               | US EPA    | * Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 | 4-Mar-05              | Norwest Labs Edmonton |
| Metals Trace (Dissolved) in water            | APHA      | * Inductively Coupled Plasma (ICP) Method, 3120 B                       | 4-Mar-05              | Norwest Labs Edmonton |
| Metals Trace (Dissolved) in water            | APHA      | * Inductively Coupled Plasma (ICP) Method, 3120 B                       | 7-Mar-05              | Norwest Labs Edmonton |
| Metals Trace (Total) in water                | APHA      | * Inductively Coupled Plasma (ICP) Method, 3120 B                       | 4-Mar-05              | Norwest Labs Edmonton |
| pH in water (Surrey)                         | APHA      | * Electrometric Method, 4500-H+ B                                       | 3-Mar-05              | Norwest Labs Surrey   |
| Solids Suspended (Total, Fixed and Volatile) | APHA      | * Total Suspended Solids Dried at 103-105°C, 2540 D                     | 2-Mar-05              | 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:

Field filtered and preserved metals bottle included in routine analysis and subsampled accordingly. AH 3-4-5  
Some total metal results were less than dissolved metal results for samples 366415-1-6. The results were checked and are within the method uncertainty.050307FM.

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

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