

**2002 PRE AND POST DRILLING  
WATER SAMPLE RESULTS**



**TAIGA ENVIRONMENTAL LABORATORY**  
4601 - 52nd Ave., P.O. Box 1500, Yellowknife, NT X1A 2R3  
Tel: (867) 669-2788 • Fax: (867) 669-2718



**Send Results & Invoice to:**  
(Please notify if results & invoices are to be sent to different locations)

Company/Agency: \_\_\_\_\_

Address: \_\_\_\_\_

City/Town: \_\_\_\_\_ Territory: \_\_\_\_\_

Postal Code: \_\_\_\_\_

Phone: ( ) \_\_\_\_\_

Fax: ( ) \_\_\_\_\_

E-mail: \_\_\_\_\_

Client Project No.: \_\_\_\_\_

Date / Time Sampled: \_\_\_\_\_

Sampler: \_\_\_\_\_

Location: \_\_\_\_\_

Sample Type: wastewater/sewage/potable/freshwater  
(circle one)

Add'l Sample Info: \_\_\_\_\_

Date Received: \_\_\_\_\_ By: \_\_\_\_\_

**- WATER SAMPLES -**

|                                                                  |  |  |  |  |
|------------------------------------------------------------------|--|--|--|--|
| <b>Client Sample ID</b><br>(As it should appear on final report) |  |  |  |  |
| <b>Taiga Sample ID</b>                                           |  |  |  |  |

**Bottle Type Parameter:**

**ROUTINE (GREEN)**

☒ PLEASE CHECK TESTS REQUIRED BELOW:

| pH, Conductivity, Alkalinity | pH | Cond | Alk | pH | Cond | Alk | pH | Cond | Alk | pH | Cond | Alk |
|------------------------------|----|------|-----|----|------|-----|----|------|-----|----|------|-----|
| Calcium, Magnesium, Hardness |    |      |     |    |      |     |    |      |     |    |      |     |
| Sodium, Potassium            |    |      |     |    |      |     |    |      |     |    |      |     |
| Fluoride                     |    |      |     |    |      |     |    |      |     |    |      |     |
| Reactive Silica              |    |      |     |    |      |     |    |      |     |    |      |     |
| Chloride, Sulphate           | Cl |      | SO4 | Cl |      | SO4 | Cl |      | SO4 | Cl |      | SO4 |
| Colour                       |    |      |     |    |      |     |    |      |     |    |      |     |

**NUTRIENTS (BLACK)**

|                                          |     |     |     |     |     |     |     |     |    |
|------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|----|
| Turbidity                                |     |     |     |     |     |     |     |     |    |
| Total Suspended Solids, Dissolved Solids | TSS | TDS | TSS | TDS | TSS | TDS | TSS | TDS |    |
| Nitrate + Nitrite                        |     |     |     |     |     |     |     |     |    |
| Ammonia                                  |     |     |     |     |     |     |     |     |    |
| Phosphorus: Total, Dissolved, Ortho      | TP  | DP  | OP  | TP  | DP  | OP  | TP  | DP  | OP |
| Carbon: Total, Dissolved                 | TOC | DOC | TOC | DOC | TOC | DOC | TOC | DOC |    |
| BOD                                      |     |     |     |     |     |     |     |     |    |

**MICROBIOLOGICAL (STERILE CONTAINER)**

|                                     |    |    |    |    |    |    |    |    |
|-------------------------------------|----|----|----|----|----|----|----|----|
| Faecal Coliform (FC)                |    |    |    |    |    |    |    |    |
| Total Coliforms (TC), E. Coli. (EC) | TC | EC | TC | EC | TC | EC | TC | EC |
| Faecal Strep (FS)                   |    |    |    |    |    |    |    |    |
| Standard Plate Count (SPC)          |    |    |    |    |    |    |    |    |

**METALS (RED)**

|                                                                                                                                         |       |       |       |       |       |       |       |       |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Arsenic                                                                                                                                 | Total | Diss. | Total | Diss. | Total | Diss. | Total | Diss. |
| ICP - MS(1): Cd, Cr, Cu, Co, Mn, Ni, Pb, Zn, Fe                                                                                         | Total | Diss. | Total | Diss. | Total | Diss. | Total | Diss. |
| ICP - MS(2): 25 element scan (not B or Sn)                                                                                              | Total | Diss. | Total | Diss. | Total | Diss. | Total | Diss. |
| Add'l Metals (please circle)<br>Ag, Al, Ba, Be, Bi, B, Cd, Co, Cr, Cs, Cu, Fe, Li, Mn, Mo, Ni, Pb, Rb, Sb, Se, Sn, Sr, Ti, Tl, U, V, Zn | Total | Diss. | Total | Diss. | Total | Diss. | Total | Diss. |
| Mercury (ORANGE)                                                                                                                        | Total | Diss. | Total | Diss. | Total | Diss. | Total | Diss. |

**ORGANIC**

|                       |       |      |       |      |       |      |       |      |
|-----------------------|-------|------|-------|------|-------|------|-------|------|
| Cyanide (BLUE)        | Total | WAD  | Total | WAD  | Total | WAD  | Total | WAD  |
| Phenol (YELLOW)       |       |      |       |      |       |      |       |      |
| Oil & Grease (YELLOW) | VIS.  | EXT. | VIS.  | EXT. | VIS.  | EXT. | VIS.  | EXT. |
| THM / BTEX (vial)     | THM   | BTEX | THM   | BTEX | THM   | BTEX | THM   | BTEX |
| Other:                |       |      |       |      |       |      |       |      |

## SAMPLING INSTRUCTIONS

| Parameter Group        | Marking | Bottle Description                                        | Preservative                                                                                   | Instructions                                                                                                                                                                                                                                                                                                                                             |
|------------------------|---------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Routine                | GREEN   | 500 or 750 mL plastic bottle                              | Keep cool at 4°C                                                                               | Rinse bottle 3 times with sample, then fill to top and cap bottle.                                                                                                                                                                                                                                                                                       |
| Nutrients              | BLACK   | 500 or 750 mL plastic bottle                              | Keep cool at 4°C                                                                               |                                                                                                                                                                                                                                                                                                                                                          |
| Microbiological        | STERILE | 250 or 500 mL bottle containing sodium thiosulfate        | Keep cool at 4°C                                                                               | DO NOT RINSE bottle. Fill to near top and cap bottle.                                                                                                                                                                                                                                                                                                    |
| Total Metals           | RED     | 250 mL plastic bottle                                     | 5 mL of 1:3 nitric acid (<20% acid) in RED-dot vial                                            | Rinse bottle 3 times with sample, then fill to near top. Add contents of preservative vial(s). Cap bottle and mix.                                                                                                                                                                                                                                       |
| Mercury                | ORANGE  | 150mL glass bottle with black top or 250 mL teflon bottle | 2 mL 1:1 sulphuric acid + 1 mL 5% potassium dichromate (per 125 mL sample) in ORANGE-dot vials |                                                                                                                                                                                                                                                                                                                                                          |
| Dissolved Metals       | RED     | 250 mL plastic bottle                                     | SEE INSTRUCTIONS                                                                               | Rinse bottle 3 times with sample, then fill to near top. Filter in the field through a pre-rinsed 0.45 µm membrane filter, collecting filtrate in another 250 mL RED-dot bottle. Add RED-DOT preservative, cap and mix. <i>If unable to filter sample in the field DO NOT ADD PRESERVATIVE and label as "dissolved metals--unfiltered, unpreserved."</i> |
| Oil & Grease           | YELLOW  | 1 L brown glass WIDE-mouthed bottle                       | 4 mL 1:1 sulphuric acid in YELLOW-dot vial                                                     | DO NOT RINSE bottle. Fill to shoulder of bottle. Add contents of preservative vial. Cap bottle and mix.                                                                                                                                                                                                                                                  |
| Phenol                 | YELLOW  | 1 L brown glass NARROW-mouthed bottle                     | 4 mL 1:1 sulphuric acid in YELLOW-dot vial                                                     | Rinse bottle 3 times with sample, then fill to near top. Add contents of preservative vial(s). Cap bottle and mix.                                                                                                                                                                                                                                       |
| Cyanide                | BLUE    | 500 mL brown plastic bottle                               | 5 mL 10% sodium hydroxide in BLUE-dot vial                                                     |                                                                                                                                                                                                                                                                                                                                                          |
| Sulphide               | PURPLE  | 250 mL plastic bottle                                     | 1 mL 6N zinc acetate + 3 mL 10% sodium hydroxide in PURPLE-dot vials                           |                                                                                                                                                                                                                                                                                                                                                          |
| Chlorine               | PINK    | 250 mL plastic bottle                                     | Keep cool at 4°C                                                                               | Rinse bottle 3 times with sample, then fill to top, leaving NO air space/gap.                                                                                                                                                                                                                                                                            |
| BTEX/Volatile Organics | WHITE   | 40 mL clear glass vial with white lid                     | Keep cool at 4°C                                                                               | DO NOT rinse bottle. Fill bottle completely, leaving NO air space/gap.                                                                                                                                                                                                                                                                                   |

12 -08- 2002

**Taiga Environmental Laboratory**  
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Tel: (867)-669-2788  
Fax: (867)-669-2718

## - CERTIFICATE OF ANALYSIS -

Prepared For: Commander Resources

Attn:

Sample ID: I16-001 after drilling

Taiga Sample ID: 221872

Client Project: Victoria I 9821

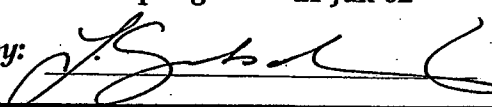
Sample Type: freshwater

Received Date: 05-Jul-02

Location: I16-001-Victoria Island

Sampling Date: 21-Jun-02

Report Status: Final

Approved by: 

| Test Parameter                | Result | Units    | Detection Limit | Analysis Date | Data Qualifier |
|-------------------------------|--------|----------|-----------------|---------------|----------------|
| <b><u>Physicals</u></b>       |        |          |                 |               |                |
| Colour                        | 10     |          | 5               | 16-Jul-02     | 2              |
| Conductivity, Specific        | 186    | µS/cm    | 0.3             | 12-Jul-02     | 2              |
| pH                            | 7.20   | pH units | 0.05            | 12-Jul-02     | 2              |
| Solids, Total Suspended       | 3      | mg/L     | 3               | 15-Jul-02     | 2              |
| Turbidity                     | 1.2    | NTU      | 0.1             | 16-Jul-02     | 2              |
| <b><u>Nutrients</u></b>       |        |          |                 |               |                |
| Ammonia as N                  | 0.018  | mg/L     | 0.005           | 11-Jul-02     | 2              |
| Chemical Oxygen Demand        | <1     | mg/L     | 1               | 09-Jul-02     | 2              |
| Nitrate+Nitrite as N          | 0.010  | mg/L     | 0.008           | 10-Jul-02     | 2              |
| Phosphorous, Total            | 0.012  | mg/L     | 0.004           | 09-Jul-02     | 2              |
| <b><u>Major Ions</u></b>      |        |          |                 |               |                |
| Calcium                       | 23.2   | mg/L     | 0.05            | 12-Jul-02     | 2              |
| Hardness as CaCO <sub>3</sub> | 71.1   | mg/L     | 0.17            | 12-Jul-02     | 2              |
| Magnesium                     | 3.20   | mg/L     | 0.02            | 12-Jul-02     | 2              |

**Organic**

Report Date: Thursday, August 01, 2002

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---

**- CERTIFICATE OF ANALYSIS -**

**Prepared For:** Commander Resources

**Attn:**

**Sample ID:** I16-001 after drilling

**Taiga Sample ID:** 221872

---

**Oil and Grease (Visible)**

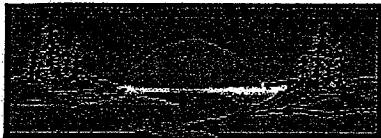
**non-vis**

**10-Jul-02      2**

---

**Data Qualifier Descriptions:**

**2      Holding time exceeded upon receipt of sample**



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Tel: (867)-669-2788  
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- CERTIFICATE OF ANALYSIS -

Prepared For: Commander Resources

Attn:

Sample ID: I16W-001 after drilling

Taiga Sample ID: 221873

Client Project: Victoria I 9821

Sample Type: freshwater

Received Date: 05-Jul-02

Location: I16-001-Victoria Island

Sampling Date: 19-Jun-02

Report Status: Final

Approved by:

| Test Parameter                | Result | Units    | Detection Limit | Analysis Date | Data Qualifier |
|-------------------------------|--------|----------|-----------------|---------------|----------------|
| <u>Physicals</u>              |        |          |                 |               |                |
| Colour                        | 20     |          | 5               | 16-Jul-02     | 2              |
| Conductivity, Specific        | 193    | µS/cm    | 0.3             | 12-Jul-02     | 2              |
| pH                            | 8.16   | pH units | 0.05            | 12-Jul-02     | 2              |
| Solids, Total Suspended       | <3     | mg/L     | 3               | 15-Jul-02     | 2              |
| Turbidity                     | 0.5    | NTU      | 0.1             | 16-Jul-02     | 2              |
| <u>Nutrients</u>              |        |          |                 |               |                |
| Ammonia as N                  | 0.029  | mg/L     | 0.005           | 11-Jul-02     | 2              |
| Chemical Oxygen Demand        | 15     | mg/L     | 1               | 09-Jul-02     | 2              |
| Nitrate+Nitrite as N          | <0.008 | mg/L     | 0.008           | 10-Jul-02     | 2              |
| Phosphorous, Total            | 0.031  | mg/L     | 0.004           | 09-Jul-02     | 2              |
| <u>Major Ions</u>             |        |          |                 |               |                |
| Calcium                       | 20.0   | mg/L     | 0.05            | 12-Jul-02     | 2              |
| Hardness as CaCO <sub>3</sub> | 90.4   | mg/L     | 0.17            | 12-Jul-02     | 2              |
| Magnesium                     | 9.82   | mg/L     | 0.02            | 12-Jul-02     | 2              |
| <u>Organic</u>                |        |          |                 |               |                |

Report Date: Thursday, August 01, 2002

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---

**- CERTIFICATE OF ANALYSIS -**

**Prepared For:** Commander Resources

**Attn:**

**Sample ID:** I16W-001 after drilling

**Taiga Sample ID:** 221873

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**Oil and Grease (Visible)**

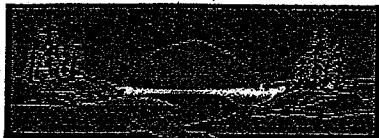
**non-vis**

**10-Jul-02      2**

---

**Data Qualifier Descriptions:**

**2      Holding time exceeded upon receipt of sample**



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Tel: (867)-669-2788  
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- CERTIFICATE OF ANALYSIS -

Prepared For: Commander Resources

Attn:

Sample ID: I16W-002 after drilling

Taiga Sample ID: 221874

Client Project: Victoria I 9821

Sample Type: freshwater

Received Date: 05-Jul-02

Location: I16-001-Victoria Island

Sampling Date: 19-Jun-02

Report Status: Final

Approved by:

| Test Parameter                | Result | Units    | Detection Limit | Analysis Date | Data Qualifier |
|-------------------------------|--------|----------|-----------------|---------------|----------------|
| <b><u>Physicals</u></b>       |        |          |                 |               |                |
| Colour                        | 20     |          | 5               | 16-Jul-02     | 2              |
| Conductivity, Specific        | 183    | µS/cm    | 0.3             | 16-Jul-02     | 2              |
| pH                            | 7.44   | pH units | 0.05            | 16-Jul-02     | 2              |
| Solids, Total Suspended       | 5      | mg/L     | 3               | 15-Jul-02     | 2              |
| Turbidity                     | 0.3    | NTU      | 0.1             | 16-Jul-02     | 2              |
| <b><u>Nutrients</u></b>       |        |          |                 |               |                |
| Ammonia as N                  | 0.029  | mg/L     | 0.005           | 11-Jul-02     | 2              |
| Chemical Oxygen Demand        | 20     | mg/L     | 1               | 09-Jul-02     | 2              |
| Nitrate+Nitrite as N          | <0.008 | mg/L     | 0.008           | 10-Jul-02     | 2              |
| Phosphorous, Total            | 0.009  | mg/L     | 0.004           | 09-Jul-02     | 2              |
| <b><u>Major Ions</u></b>      |        |          |                 |               |                |
| Calcium                       | 19.0   | mg/L     | 0.05            | 12-Jul-02     | 2              |
| Hardness as CaCO <sub>3</sub> | 87.6   | mg/L     | 0.17            | 12-Jul-02     | 2              |
| Magnesium                     | 9.73   | mg/L     | 0.02            | 12-Jul-02     | 2              |
| <b><u>Organic</u></b>         |        |          |                 |               |                |

Report Date: Thursday, August 01, 2002

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4601-52nd Ave., Box 1500, Yellowknife, NT. X1A 2R3

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---

**- CERTIFICATE OF ANALYSIS -**

**Prepared For:** Commander Resources

**Attn:**

**Sample ID:** I16W-002 after drilling

**Taiga Sample ID:** 221874

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**Oil and Grease (Visible)**

**non-vis**

**10-Jul-02      2**

---

**Data Qualifier Descriptions:**

**2      Holding time exceeded upon receipt of sample**



Taiga Environmental Laboratory  
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Tel: (867)-669-2788  
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- CERTIFICATE OF ANALYSIS -

Prepared For: Commander Resources

Attn:

Sample ID: A5 South before drilling

Taiga Sample ID: 221875

Client Project: Victoria I 9821

Sample Type: freshwater

Received Date: 05-Jul-02

Location: I16-001-Victoria Island

Sampling Date: 21-Jun-02

Report Status: Final

Approved by:

| Test Parameter          | Result | Units    | Detection Limit | Analysis Date | Data Qualifier |
|-------------------------|--------|----------|-----------------|---------------|----------------|
| <b>Physicals</b>        |        |          |                 |               |                |
| Colour                  | 5      |          | 5               | 16-Jul-02     | 2              |
| Conductivity, Specific  | 76.5   | µS/cm    | 0.3             | 16-Jul-02     | 2              |
| pH                      | 7.34   | pH units | 0.05            | 16-Jul-02     | 2              |
| Solids, Total Suspended | <3     | mg/L     | 3               | 15-Jul-02     | 2              |
| Turbidity               | 0.4    | NTU      | 0.1             | 16-Jul-02     | 2              |
| <b>Nutrients</b>        |        |          |                 |               |                |
| Ammonia as N            | 0.027  | mg/L     | 0.005           | 11-Jul-02     | 2              |
| Chemical Oxygen Demand  | <1     | mg/L     | 1               | 09-Jul-02     | 2              |
| Nitrate+Nitrite as N    | <0.008 | mg/L     | 0.008           | 10-Jul-02     | 2              |
| Phosphorous, Total      | 0.025  | mg/L     | 0.004           | 09-Jul-02     | 2              |
| <b>Major Ions</b>       |        |          |                 |               |                |
| Calcium                 | 7.44   | mg/L     | 0.05            | 18-Jul-02     | 2              |
| Hardness as CaCO3       | 39.8   | mg/L     | 0.17            | 18-Jul-02     | 2              |
| Magnesium               | 5.16   | mg/L     | 0.02            | 18-Jul-02     | 2              |

**Organic**

Report Date: Thursday, August 01, 2002

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---

**- CERTIFICATE OF ANALYSIS -**

**Prepared For:** Commander Resources

**Attn:**

**Sample ID:** A5 South before drilling

**Taiga Sample ID:** 221875

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**Oil and Grease (Visible)**

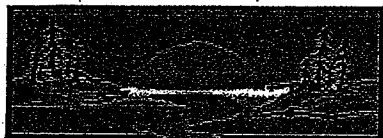
**non-vis**

**10-Jul-02      2**

---

**Data Qualifier Descriptions:**

**2      Holding time exceeded upon receipt of sample**



Taiga Environmental Laboratory  
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Tel: (867)-669-2788  
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- CERTIFICATE OF ANALYSIS -

Prepared For: Commander Resources

Attn:

Sample ID: A5 South-001 after drilling

Taiga Sample ID: 221876

Client Project: Victoria I 9821

Sample Type: freshwater

Received Date: 05-Jul-02

Location: I16-001-Victoria Island

Sampling Date: 27-Jun-02

Report Status: Final

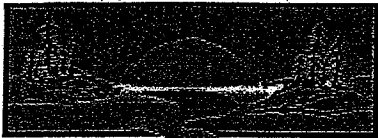
Approved by:

| Test Parameter                | Result | Units    | Detection Limit | Analysis Date | Data Qualifier |
|-------------------------------|--------|----------|-----------------|---------------|----------------|
| <b>Physicals</b>              |        |          |                 |               |                |
| Colour                        | 20     |          | 5               | 16-Jul-02     | 2              |
| Conductivity, Specific        | 107    | µS/cm    | 0.3             | 16-Jul-02     | 2              |
| pH                            | 7.51   | pH units | 0.05            | 16-Jul-02     | 2              |
| Solids, Total Suspended       | 5      | mg/L     | 3               | 15-Jul-02     | 2              |
| Turbidity                     | 1.2    | NTU      | 0.1             | 16-Jul-02     | 2              |
| <b>Nutrients</b>              |        |          |                 |               |                |
| Ammonia as N                  | 0.014  | mg/L     | 0.005           | 11-Jul-02     | 2              |
| Chemical Oxygen Demand        | 10     | mg/L     | 1               | 09-Jul-02     | 2              |
| Nitrate+Nitrite as N          | <0.008 | mg/L     | 0.008           | 10-Jul-02     | 2              |
| Phosphorous, Total            | 0.033  | mg/L     | 0.004           | 09-Jul-02     | 2              |
| <b>Major Ions</b>             |        |          |                 |               |                |
| Calcium                       | 11.9   | mg/L     | 0.05            | 12-Jul-02     | 2              |
| Hardness as CaCO <sub>3</sub> | 57.7   | mg/L     | 0.17            | 12-Jul-02     | 2              |
| Magnesium                     | 6.81   | mg/L     | 0.02            | 12-Jul-02     | 2              |

**Organic**

Report Date: Thursday, August 01, 2002

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Tel: (867)-669-2788  
Fax: (867)-669-2718

---

**- CERTIFICATE OF ANALYSIS -**

**Prepared For:** Commander Resources

**Attn:**

**Sample ID:** A5 South-001 after drilling

**Taiga Sample ID:** 221876

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**Oil and Grease (Visible)**

**non-vis**

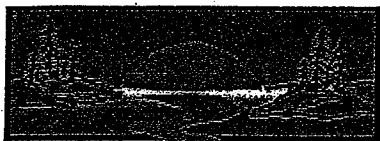
**10-Jul-02**

**2**

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**Data Qualifier Descriptions:**

**2** Holding time exceeded upon receipt of sample



Taiga Environmental Laboratory  
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Tel: (867)-669-2788  
Fax: (867)-669-2718

- CERTIFICATE OF ANALYSIS -

Prepared For: Commander Resources

Attn:

Sample ID: I16W before drilling

Taiga Sample ID: 221877

Client Project: Victoria I 9821

Sample Type: freshwater

Received Date: 05-Jul-02

Location: I16-001-Victoria Island

Sampling Date: 14-Jun-02

Report Status: Final

Approved by:

| Test Parameter                | Result | Units    | Detection Limit | Analysis Date | Data Qualifier |
|-------------------------------|--------|----------|-----------------|---------------|----------------|
| <b>Physicals</b>              |        |          |                 |               |                |
| Colour                        | 10     |          | 5               | 16-Jul-02     | 2              |
| Conductivity, Specific        | 45.1   | µS/cm    | 0.3             | 16-Jul-02     | 2              |
| pH                            | 6.99   | pH units | 0.05            | 16-Jul-02     | 2              |
| Solids, Total Suspended       | 3      | mg/L     | 3               | 15-Jul-02     | 2              |
| Turbidity                     | 0.4    | NTU      | 0.1             | 16-Jul-02     | 2              |
| <b>Nutrients</b>              |        |          |                 |               |                |
| Ammonia as N                  | 0.005  | mg/L     | 0.005           | 11-Jul-02     | 2              |
| Chemical Oxygen Demand        | 10     | mg/L     | 1               | 09-Jul-02     | 2              |
| Nitrate+Nitrite as N          | 0.014  | mg/L     | 0.008           | 10-Jul-02     | 2              |
| Phosphorous, Total            | 0.013  | mg/L     | 0.004           | 09-Jul-02     | 2              |
| <b>Major Ions</b>             |        |          |                 |               |                |
| Calcium                       | 3.57   | mg/L     | 0.05            | 12-Jul-02     | 2              |
| Hardness as CaCO <sub>3</sub> | 21.4   | mg/L     | 0.17            | 12-Jul-02     | 2              |
| Magnesium                     | 3.04   | mg/L     | 0.02            | 12-Jul-02     | 2              |
| <b>Organic</b>                |        |          |                 |               |                |

Report Date: Thursday, August 01, 2002

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**Taiga Environmental Laboratory**  
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Fax: (867)-669-2718

---

**- CERTIFICATE OF ANALYSIS -**

**Prepared For:** Commander Resources

**Attn:**

**Sample ID:** I16W before drilling

**Taiga Sample ID:** 221877

---

**Oil and Grease (Visible)**

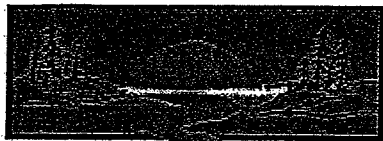
**non-vis**

**10-Jul-02     2**

---

**Data Qualifier Descriptions:**

**2     Holding time exceeded upon receipt of sample**



Taiga Environmental Laboratory  
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- CERTIFICATE OF ANALYSIS -

Prepared For: Commander Resources

Attn:

Sample ID: I16 before drilling

Taiga Sample ID: 221878

Client Project: Victoria I 9821

Sample Type: freshwater

Received Date: 05-Jul-02

Location: I16-001-Victoria Island

Sampling Date: 07-Jun-02

Report Status: Final

Approved by:

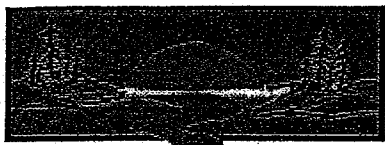
| Test Parameter                | Result | Units    | Detection Limit | Analysis Date | Data Qualifier |
|-------------------------------|--------|----------|-----------------|---------------|----------------|
| <b><u>Physicals</u></b>       |        |          |                 |               |                |
| Colour                        | 20     |          | 5               | 16-Jul-02     | 2              |
| Conductivity, Specific        | 195    | µS/cm    | 0.3             | 16-Jul-02     | 2              |
| pH                            | 7.79   | pH units | 0.05            | 16-Jul-02     | 2              |
| Solids, Total Suspended       | <3     | mg/L     | 3               | 15-Jul-02     | 2              |
| Turbidity                     | 0.4    | NTU      | 0.1             | 16-Jul-02     | 2              |
| <b><u>Nutrients</u></b>       |        |          |                 |               |                |
| Ammonia as N                  | 0.061  | mg/L     | 0.005           | 11-Jul-02     | 2              |
| Chemical Oxygen Demand        | 10     | mg/L     | 1               | 09-Jul-02     | 2              |
| Nitrate+Nitrite as N          | <0.008 | mg/L     | 0.008           | 10-Jul-02     | 2              |
| Phosphorous, Total            | 0.008  | mg/L     | 0.004           | 09-Jul-02     | 2              |
| <b><u>Major Ions</u></b>      |        |          |                 |               |                |
| Calcium                       | 17.6   | mg/L     | 0.05            | 12-Jul-02     | 2              |
| Hardness as CaCO <sub>3</sub> | 101    | mg/L     | 0.17            | 12-Jul-02     | 2              |
| Magnesium                     | 13.8   | mg/L     | 0.02            | 12-Jul-02     | 2              |

**Organic**

Report Date: Thursday, August 01, 2002

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---

**- CERTIFICATE OF ANALYSIS -**

**Prepared For:** Commander Resources

**Attn:**

**Sample ID:** I16 before drilling

**Taiga Sample ID:** 221878

---

**Oil and Grease (Visible)**

**non-vis**

**10-Jul-02**

**2**

---

**Data Qualifier Descriptions:**

**2** Holding time exceeded upon receipt of sample

**UP AND DOWNSTREAM WATER SAMPLE  
RESULTS – TUKTU CAMP AREA**



# INDIAN & NORTHERN AFFAIRS CANADA

## FACSIMILE MESSAGE

TO: Graham Gill  
COMPANY: Diamonds North  
FAX: ~~(867) 777-3361~~ (604) 484-7143

OUR FILE #: N2002C0023  
DATE: November 25, 2004

SENDER: Kevin R. Glowa # of PAGES: 8 (incl. cov.)  
RE: TAKTU RIVER WATER SAMPLE RESULTS

As discussed attached are the requested Water Sample Results taken in 2003 and 2004.

Any Question please feel free to give me a call.

Kevin

Kevin R. Glowa, Water Resources Officer  
Indian and Northern Affairs Canada  
P.O. Box 2100, Inuvik, NT X0E-0T0,  
Direct: (867) 777-3662 Office General: (867)-777-3361, Fax: (867)-777-2090  
E-mail: [glowak@inac.gc.ca](mailto:glowak@inac.gc.ca)

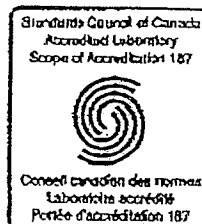
*This facsimile message has been sent to the above recipient(s), and may contain confidential information. If you have received it in error or if there are problems with the transmission, please notify the sender, as identified above.*



## Taiga Environmental Laboratory

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### - FINAL REPORT -

Prepared For: Inuvik District Office  
DIAND, Operations

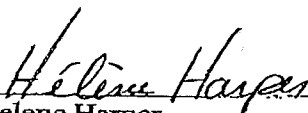
Address: Box 2100  
Inuvik, NT  
X0E 0T0

*Diamonds North  
Looks good.*

Attn: Kevin Glowak

Facimile: (867) 777-2090

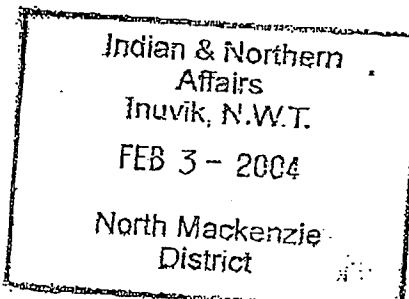
Final report has been reviewed and approved by:

  
Helene Harper  
Client Services Officer

#### NOTES:

- Test methods and data are validated by the laboratory's Quality Assurance Program. Taiga Environmental Laboratory is accredited by the Standards Council of Canada (SCC) as a testing laboratory for specific tests registered with the Council.
- Routine methods are based on recognized procedures from sources such as
  - Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF;
  - Environment Canada
  - USEPA
- Samples shall be kept for thirty (30) days after the final report is issued. All microbiological samples shall be disposed of immediately upon completion of analysis to minimize biohazardous risks to laboratory personnel. Please contact the laboratory if you have any special requirements.
- Final results are based on the specific tests at the time of analysis and do not represent the conditions during sampling.

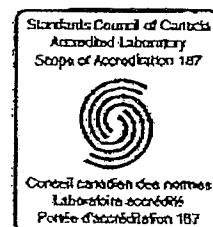
Report Date: Tuesday, January 27, 2004



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**Taiga Environmental Laboratory**  
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Tel: (867)-669-2788 Fax: (867)-669-2718



**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: *CAMP Diamonds North*

Taiga Sample ID: 232803

Client Project:  
Sample Type: wastewater  
Received Date: 21-Aug-03  
Sampling Date: 18-Aug-03  
Location: Holman

*all looks good*

Approved By *Helene Harper*  
Helene Harper  
Client Services Officer

Report Status: FINAL

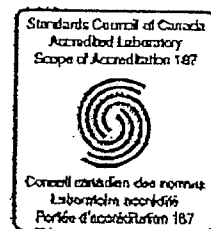
| Test Parameter                | Result        | Detection Limit | Analysis Date | Analytical Method * | Qualifier |
|-------------------------------|---------------|-----------------|---------------|---------------------|-----------|
| <u>Physicals</u>              |               |                 |               |                     |           |
| Alkalinity                    | 114 mg/L      | 0.3 mg/L        | 26-Aug-03     | SM2320:B            |           |
| Conductivity, Specific (25 C) | 219 µS/cm     | 0.3 µS/cm       | 25-Aug-03     | SM2510:B            |           |
| pH                            | 8.30 pH units | 0.05 pH units   | 25-Aug-03     | SM4500-H:B          |           |
| Solids, Total Suspended       | < 3 mg/L      | 3 mg/L          | 25-Aug-03     | SM2540:D            |           |
| Turbidity                     | 7.2 NTU       | 0.1 NTU         | 08-Sep-03     | SM2130:B            |           |
| <u>Nutrients</u>              |               |                 |               |                     |           |
| Ammonia as N                  | 0.000 mg/L    | 0.005 mg/L      | 29-Aug-03     | SM4500-NH3:G        |           |
| Biological Oxygen Demand      | mg/L          | mg/L            |               | SM5210:B            | 2         |
| Phosphorous, Total            | 0.010 mg/L    | 0.004 mg/L      | 08-Sep-03     | SM4500-P:D          |           |
| <u>Major Ions</u>             |               |                 |               |                     |           |
| Calcium                       | 25.6 mg/L     | 0.05 mg/L       | 25-Aug-03     | SM3111:B            |           |
| Chloride                      | 2.0 mg/L      | 0.2 mg/L        | 28-Aug-03     | SM4500-Cl:E         |           |
| Magnesium                     | 14.3 mg/L     | 0.02 mg/L       | 25-Aug-03     | SM3111:B            |           |

Report Date: Tuesday, January 27, 2004

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**Taiga Environmental Laboratory**  
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Tel: (867)-669-2788 Fax: (867)-669-2718



**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID: CAMP**

**Taiga Sample ID: 232803**

|           |           |           |           |              |
|-----------|-----------|-----------|-----------|--------------|
| Potassium | 0.41 mg/L | 0.03 mg/L | 26-Aug-03 | SM3500-K:D   |
| Sodium    | 0.88 mg/L | 0.02 mg/L | 25-Aug-03 | SM3500-Na:D  |
| Sulphate  | 3 mg/L    | 3 mg/L    | 26-Aug-03 | SM4500-SO4:F |

**\* Taiga analytical methods are based on the following standard analytical methods**

SM - Standard Methods for the Examination of Water and Wastewater

EPA - United States Environmental Protection Agency

**- DATA QUALIFIERS -**

*Data Qualifier Descriptions:*

2      *Holding time exceeded upon receipt of sample*

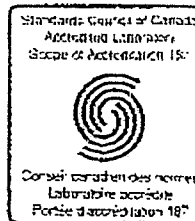
Taktu. (Diamonds North)



# Taiga Environmental Laboratory

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Tel: (867)-669-2788 Fax: (867)-669-2718



## - FINAL REPORT -

Prepared For: Water Resources - Inuvik  
DIAND

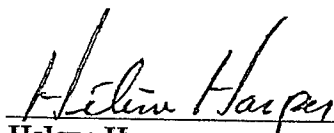
Address: Box 2100  
Inuvik, NT  
X0E 0T0

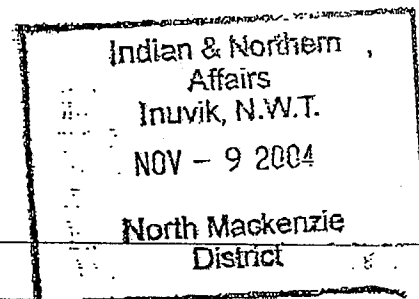
Attn: Kevin Glowa

Facimile: (867) 777-2090

Taktu - Sample Taken from River  
to East of Camp.

Final report has been reviewed and approved by:

  
Helene Harper  
Client Services Officer



### NOTES:

- Test methods and data are validated by the laboratory's Quality Assurance Program. Taiga Environmental Laboratory is accredited by the Standards Council of Canada (SCC) as a testing laboratory for specific tests registered with the Council.
- Routine methods are based on recognized procedures from sources such as
  - Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF;
  - Environment Canada
  - USEPA
- Samples shall be kept for thirty (30) days after the final report is issued. All microbiological samples shall be disposed of immediately upon completion of analysis to minimize biohazardous risks to laboratory personnel. Please contact the laboratory if you have any special requirements.
- Final results are based on the specific tests at the time of analysis and do not represent the conditions during sampling.

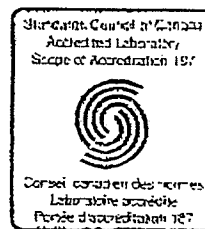
Report Date: Thursday, November 04, 2004

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pages 2-4



**Taiga Environmental Laboratory**  
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Tel: (867)-669-2788 Fax: (867)-669-2718



**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID:** Taktu

**Taiga Sample ID:** 242529

**Client Project:**

**Sample Type:** Unknown Water

**Received Date:** 31-Aug-04

**Sampling Date:** 28-Aug-04

**Location:** Taktu/Johnson Pt

**Approved By**

*Helene Harper*  
Helene Harper  
Client Services Officer

**Report Status:** FINAL

| Test Parameter              | Result  | Detection Limit | Units    | Analysis Date | Analytical Method * | Qualifer |
|-----------------------------|---------|-----------------|----------|---------------|---------------------|----------|
| <b><u>Physicals</u></b>     |         |                 |          |               |                     |          |
| Conductivity, Specific      | 192     | 0.3             | µS/cm    | 01-Sep-04     | SM2510:B            |          |
| pH                          | 8.11    | 0.05            | pH units | 01-Sep-04     | SM4500-H:B          |          |
| Solids, Total Dissolved     | 102     | 10              | mg/L     | 12-Sep-04     | SM2540:C            |          |
| <b><u>Nutrients</u></b>     |         |                 |          |               |                     |          |
| Ammonia as N                | < 0.005 | 0.005           | mg/L     | 07-Sep-04     | SM4500-NH3:G        |          |
| Nitrate+Nitrite as Nitrogen | < 0.01  | 0.01            | mg/L     | 09-Sep-04     | SM4110:B            |          |
| <b><u>Major Ions</u></b>    |         |                 |          |               |                     |          |
| Calcium                     | 22.7    | 0.1             | mg/L     | 09-Sep-04     | SM4110:B            |          |
| Magnesium                   | 12.4    | 0.1             | mg/L     | 09-Sep-04     | SM4110:B            |          |
| Potassium                   | 0.3     | 0.1             | mg/L     | 09-Sep-04     | SM4110:B            |          |
| Sodium                      | 0.8     | 0.1             | mg/L     | 09-Sep-04     | SM4110:B            |          |
| Sulphate                    | 2       | 1               | mg/L     | 09-Sep-04     | SM4110:B            |          |

**Subcontracted Routine/Nutrients**

**Report Date:** Thursday, November 04, 2004

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# Taiga Environmental Laboratory

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Standards Council of Canada  
Accredited Laboratory  
Société de Certification 187



Centre canadien des normes  
Laboratoire accrédité  
Periode d'accréditation 187

TM

## - CERTIFICATE OF ANALYSIS -

Client Sample ID: Taktu

Taiga Sample ID: 242529

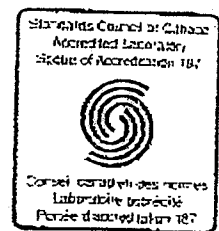
|                             |        |      |      |           |            |
|-----------------------------|--------|------|------|-----------|------------|
| Phosphorous, Total          | < 0.05 | 0.05 | mg/L | 08-Sep-04 | SM4500-P:D |
| <b><u>Metals, Total</u></b> |        |      |      |           |            |
| Aluminum                    | 33     | 30   | µg/L | 13-Sep-04 | EPA200.8   |
| Antimony                    | 0.2    | 0.1  | µg/L | 13-Sep-04 | EPA200.8   |
| Barium                      | 8.8    | 0.1  | µg/L | 13-Sep-04 | EPA200.8   |
| Beryllium                   | < 0.1  | 0.1  | µg/L | 13-Sep-04 | EPA200.8   |
| Cadmium                     | < 0.1  | 0.1  | µg/L | 13-Sep-04 | EPA200.8   |
| Cesium                      | < 0.1  | 0.1  | µg/L | 13-Sep-04 | EPA200.8   |
| Chromium                    | 1.4    | 0.3  | µg/L | 13-Sep-04 | EPA200.8   |
| Cobalt                      | < 0.1  | 0.1  | µg/L | 13-Sep-04 | EPA200.8   |
| Copper                      | 0.8    | 0.3  | µg/L | 13-Sep-04 | EPA200.8   |
| Iron                        | 69     | 50   | µg/L | 13-Sep-04 | SM3111-B   |
| Lead                        | < 0.1  | 0.1  | µg/L | 13-Sep-04 | EPA200.8   |
| Lithium                     | 0.5    | 0.3  | µg/L | 13-Sep-04 | EPA200.8   |
| Manganese                   | 2.1    | 0.1  | µg/L | 13-Sep-04 | EPA200.8   |
| Molybdenum                  | 0.1    | 0.1  | µg/L | 13-Sep-04 | EPA200.8   |
| Nickel                      | 0.5    | 0.1  | µg/L | 13-Sep-04 | EPA200.8   |
| Rubidium                    | 0.2    | 0.1  | µg/L | 13-Sep-04 | EPA200.8   |
| Selenium                    | < 1    | 1    | µg/L | 13-Sep-04 | EPA200.8   |
| Silver                      | < 0.1  | 0.1  | µg/L | 13-Sep-04 | EPA200.8   |
| Strontium                   | 13.5   | 0.1  | µg/L | 13-Sep-04 | EPA200.8   |

Report Date: Thursday, November 04, 2004

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Tel: (867)-669-2788 Fax: (867)-669-2718



**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID:** Taktu

**Taiga Sample ID:** 242529

|          |       |     |      |           |          |
|----------|-------|-----|------|-----------|----------|
| Thallium | < 0.1 | 0.1 | µg/L | 13-Sep-04 | EPA200.8 |
| Titanium | 0.9   | 0.1 | µg/L | 13-Sep-04 | EPA200.8 |
| Uranium  | 0.2   | 0.1 | µg/L | 13-Sep-04 | EPA200.8 |
| Vanadium | < 0.1 | 0.1 | µg/L | 13-Sep-04 | EPA200.8 |
| Zinc     | < 10  | 10  | µg/L | 13-Sep-04 | EPA200.8 |

**Report Date:** Thursday, November 04, 2004

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