

# North Shore Environmental Consultants Inc.

July 15, 2008

**BY COURIER**

**Husky Oil Operations Ltd.  
707-8<sup>th</sup> Ave. S.W.  
Box 6525, Station "D"  
Calgary, AB  
T2P 3G7**

**Attention: Sonia Glubish, B.Sc., A.Ag.  
*Reclamation Coordinator***

**Re: Surface Soil Sampling  
01-18-017-18 W4M Lomond, Alberta**

Husky Oil Operations Ltd. (Husky) retained North Shore Environmental Consultants Inc. (North Shore) to complete surface soil sampling in response to landowner concerns regarding runoff water from the Husky 01-18-07-18 W4M Armada Gas Plant onto his field located directly east of the plant across range road 18-5.

The landowner raised concerns with pesticide application on the plant site and the possibility that the runoff water had carried the pesticides into his field causing discolouration and sparse growth.

## **Field Work and Findings:**

On June 13, 2008, North Shore met the Husky representative Allen Fefchack and the landowner Pat Honess on site. Mr. Honess pointed out the area of concern with sparse growth and discoloured vegetation along the edges of his wheat field. The area of concern is located in the far southwest corner of LSD 04-17-017-18 W4M adjacent to Range Road 18-5 and Secondary Highway 539. The Husky 1-18 gas plant is located approximately 30 m west across Range Road 18-5 from the area of concern.

North Shore observed standing water, stressed vegetation (yellowish brown discoloured wheat) and sparse growth in the area of concern. Standing water was also observed along the east boundary of the Husky plant in the west ditch of range road 18-5. Erosion rills were observed on range road 18-5 between the west and east ditches.

The area of concern measures approximately 155 m long and 15 m wide running north-south along the east side of 18-5 and approximately 160 m long and 15 m wide along the north side of highway 539. North Shore collected five discrete soil samples from within the area of concern and three control samples located outside of the area of concern. North Shore completed a site sketch and documented the area with photographs

GPS coordinates were collected using a hand held Garmin GPS with +/- 4.0 m accuracy using UTM coordinates in NAD 83. Please refer to Figure 1 for the scaled site diagram, and Appendix A for photographs.

#### Laboratory Analytical Results

Soil samples were submitted to ALS Laboratory Group (ALS) in Calgary on June 13, 2008. Point samples 2 and 5 were selected for herbicide, sterilant, salinity, nutrient, particle size and hydrocarbon analyses. Control sample 2 was selected for salinity, nutrient (NPKS) and particle size analyses.

Laboratory analyses reported that hydrocarbon concentrations met Tier 1 Guidelines. Two samples (Control 2 and Point 3) had electrical conductivity (EC) and sodium adsorption ratio (SAR) values rated as 'good' according to AENV 2001 Guidelines. One sample (Point 5) had EC and SAR values rated 'fair' according to AENV 2001 Guidelines. Particle size analysis classified the soils as being fine grained.

Laboratory analyses also reported that samples Point 3 and Point 5 had detectable concentrations of certain herbicides. Point 3 had detectable concentrations of AMPA, Diuron, 2,4-D, Treflan, Dicamba and MCPA. The MCPA concentration exceeds Tier 1 Guidelines.

Soil sample Point 5 had detectable concentrations of Glyphosate, AMPA, Diuron, DCPMU, 2,4-D, Treflan, Dicamba, MCPA. The Glyphosate concentration exceeds Tier 1 Guidelines.

North Shore has requested additional analyses on the control samples and will provide a summary of results upon the receipt of the laboratory data.

Please feel free to contact me at (403) 228-3095 with any questions or concerns.

Sincerely,

**North Shore Environmental Consultants Inc.**

Per:



Ryan Cox, C.Tech., A.T.T.  
Environmental Consultant

encl.

Attachments:

Table 1 – Laboratory Analytical Results

Figure 1 – Site Location Map

Figure 2 – Aerial Photo

Figure 3 – Site Diagram

Appendix A – Site Photographs

Appendix B – Laboratory Certificates of Analyses

**TABLE**

TABLE 1  
SUMMARY OF SOIL ANALYTICAL RESULTS  
01-18-017-18 W4M  
SURFACE SOIL SAMPLING  
HUSKY ENERGY

| Parameters  | Units   | 13-Jun-08 |                   |                   | Guidelines <sup>1</sup> |      |         |
|---|---------|-----------|-------------------|-------------------|-------------------------|------|---------|
|   |         | Control 2 | Point 3           | Point 5           |                         |      |         |
|   |         | 0-0.15m   | 0-0.15m           | 0-0.15m           | Criteria                | Year | Value   |
| <b>Hydrocarbon Analyses</b>                                 |         |           |                   |                   |                         |      |         |
| Benzene   | mg/kg   |           | <0.005            | <0.005            | AENV                    | 2007 | 0.046   |
| Toluene   | mg/kg   |           | <0.01             | <0.01             | AENV                    | 2007 | 0.52    |
| Ethylbenzene  | mg/kg   |           | <0.01             | <0.01             | AENV                    | 2007 | 0.11    |
| Total Xylenes (o, m & p)                                    | mg/kg   |           | <0.01             | <0.01             | AENV                    | 2007 | 15      |
| F1 (C <sub>6</sub> to C <sub>10</sub> )-(BTEX) <sup>2</sup> | mg/kg   |           | <5                | <5                | AENV                    | 2007 | 210     |
| F2 (C <sub>11</sub> to C <sub>16</sub> )                    | mg/kg   |           | <5                | <5                | AENV                    | 2007 | 150     |
| F3 (C <sub>17</sub> to C <sub>34</sub> )                    | mg/kg   |           | 100               | 75                | AENV                    | 2007 | 1300    |
| F4 (>C <sub>34</sub> ) <sup>3</sup>                         | mg/kg   |           | 57                | 40                | AENV                    | 2007 | 5600    |
| Soil Moisture   | %       |           | 26                | 19                | NC                      | NC   | NC      |
| <b>Chromatogram Interpretation<sup>4</sup></b>              |         |           |                   |                   |                         |      |         |
| Routine   |         |           | Indistinguishable | Indistinguishable | NC                      | NC   | NC      |
| pH  | pH-unit | 6.88      | 7.24              | 7.64              | AENV                    | 2007 | 6 - 8.5 |
| Electrical Conductivity (EC)                                | dS/m    | 1.62      | 1.01              | <u>6.71</u>       | AENV                    | 2001 | <2      |
| Sodium Adsorption Ratio (SAR)                               | Ratio   | 1.62      | 1.41              | <u>8.19</u>       | AENV                    | 2001 | <4      |
| Saturation  | %       | 50.7      | 44.7              | 58.0              | NC                      | NC   | NC      |
| <b>Soil Nutrients</b>                                       |         |           |                   |                   |                         |      |         |
| Available Nitrate-N   | mg/kg   | 1.8       | 1.8               | 10.2              | NC                      | NC   | NC      |
| Available Phosphate-P                                       | mg/kg   | 28        | 57                | 31                | NC                      | NC   | NC      |
| Available Potassium   | mg/kg   | 535       | 462               | 408               | NC                      | NC   | NC      |
| Available Sulfate-S   | mg/kg   | 113       | 33                | 1150              | NC                      | NC   | NC      |
| <b>Soluble Salts</b>  |         |           |                   |                   |                         |      |         |
| Calcium (Ca)  | mg/L    | 195       | 116               | 416               | NC                      | NC   | NC      |
| Magnesium (Mg)  | mg/L    | 48.6      | 24.0              | 350               | NC                      | NC   | NC      |
| Sodium (Na)   | mg/L    | 97.8      | 63.9              | 937               | NC                      | NC   | NC      |
| Potassium (K)   | mg/L    | 41.5      | 36.6              | 55.2              | NC                      | NC   | NC      |
| Sulphate (SO <sub>4</sub> )                                 | mg/L    | 804       | 297               | 4170              | NC                      | NC   | NC      |
| Chloride (Cl)   | mg/L    | <20       | <20               | 70                | NC                      | NC   | NC      |
| <b>Pesticides</b>   |         |           |                   |                   |                         |      |         |
| Glyphosate  | mg/kg   |           | <0.005            | <u>0.52</u>       | AENV                    | 2007 | 0.054   |
| AMPA  | mg/kg   |           | 0.090             | 0.21              | NC                      | NC   | NC      |
| <b>Sterilants</b>   |         |           |                   |                   |                         |      |         |
| Atrazine  | mg/kg   |           | <0.0005           | <0.0005           | AENV                    | 2007 | 0.0088  |
| Bromacil  | mg/kg   |           | <0.0005           | <0.0005           | NC                      | NC   | NC      |
| Diuron  | mg/kg   |           | 0.00735           | 0.0084            | AENV                    | 2007 | 1.9     |
| DCPMU   | mg/kg   |           | <0.0005           | 0.016             | NC                      | NC   | NC      |
| Simazine  | mg/kg   |           | <0.0005           | <0.0005           | AENV                    | 2007 | 0.033   |
| Tebuthiuron   | mg/kg   |           | <0.0005           | <0.0005           | AENV                    | 2007 | 0.12    |
| <b>Herbicides</b>   |         |           |                   |                   |                         |      |         |
| 2,4-D d5  | mg/kg   |           | 93                | 119               | NC                      | NC   | NC      |
| Treflan d14   | mg/kg   |           | 98                | 121               | NC                      | NC   | NC      |
| Clopyralid  | mg/kg   |           | <0.005            | <0.005            | NC                      | NC   | NC      |
| Dicamba   | mg/kg   |           | 0.033             | 0.008             | AENV                    | 2007 | 0.12    |
| Mecoprop  | mg/kg   |           | <0.005            | <0.005            | NC                      | NC   | NC      |
| MCPA  | mg/kg   |           | <u>0.021</u>      | 0.011             | AENV                    | 2007 | 0.02    |
| 2,4-D   | mg/kg   |           | <0.005            | 0.018             | AENV                    | 2007 | 0.1     |
| Bromoxynil  | mg/kg   |           | <0.005            | <0.005            | AENV                    | 2007 | 0.044   |
| Trifluralin   | mg/kg   |           | <0.005            | <0.005            | AENV                    | 2007 | 0.038   |
| Triclopyr   | mg/kg   |           | <0.005            | <0.005            | NC                      | NC   | NC      |
| Triallate   | mg/kg   |           | <0.005            | <0.005            | AENV                    | 2007 | 0.0077  |
| 2,4,5-T   | mg/kg   |           | <0.005            | <0.005            | NC                      | NC   | NC      |
| Picloram  | mg/kg   |           | <0.005            | <0.005            | AENV                    | 2007 | 0.024   |
| Fluazifop-p-butyl   | mg/kg   |           | <0.005            | <0.005            | NC                      | NC   | NC      |
| Diclofop-methyl   | mg/kg   |           | <0.005            | <0.005            | AENV                    | 2007 | 0.059   |
| <b>Particle Size Analysis</b>                               |         |           |                   |                   |                         |      |         |
| Fine <75µ   | %       | 65        | 65                | 64                | NC                      | NC   | NC      |
| Coarse >75µ   | %       | 35        | 35                | 36                | NC                      | NC   | NC      |
| Texture   |         | Fine      | Fine              | Fine              | NC                      | NC   | NC      |

**Notes:**

<sup>1</sup> Alberta Environment. 2001. Salt Contamination Assessment and Remediation Guidelines. These guidelines are for topsoil (A horizons on the control area)

Alberta Environment. 2007. Alberta Tier 1 Soil and Groundwater Remediation Guidelines. These standards are for fine textured surface soil under agricultural land use for all exposure pathways.

<sup>2</sup> Fraction 1 petroleum hydrocarbons (C6-C10) minus benzene, toluene, ethylbenzene and xylene concentrations.

<sup>3</sup> Fraction 4 petroleum hydrocarbons (C34-C50 or >C34) as determined by high temperature gas chromatography.

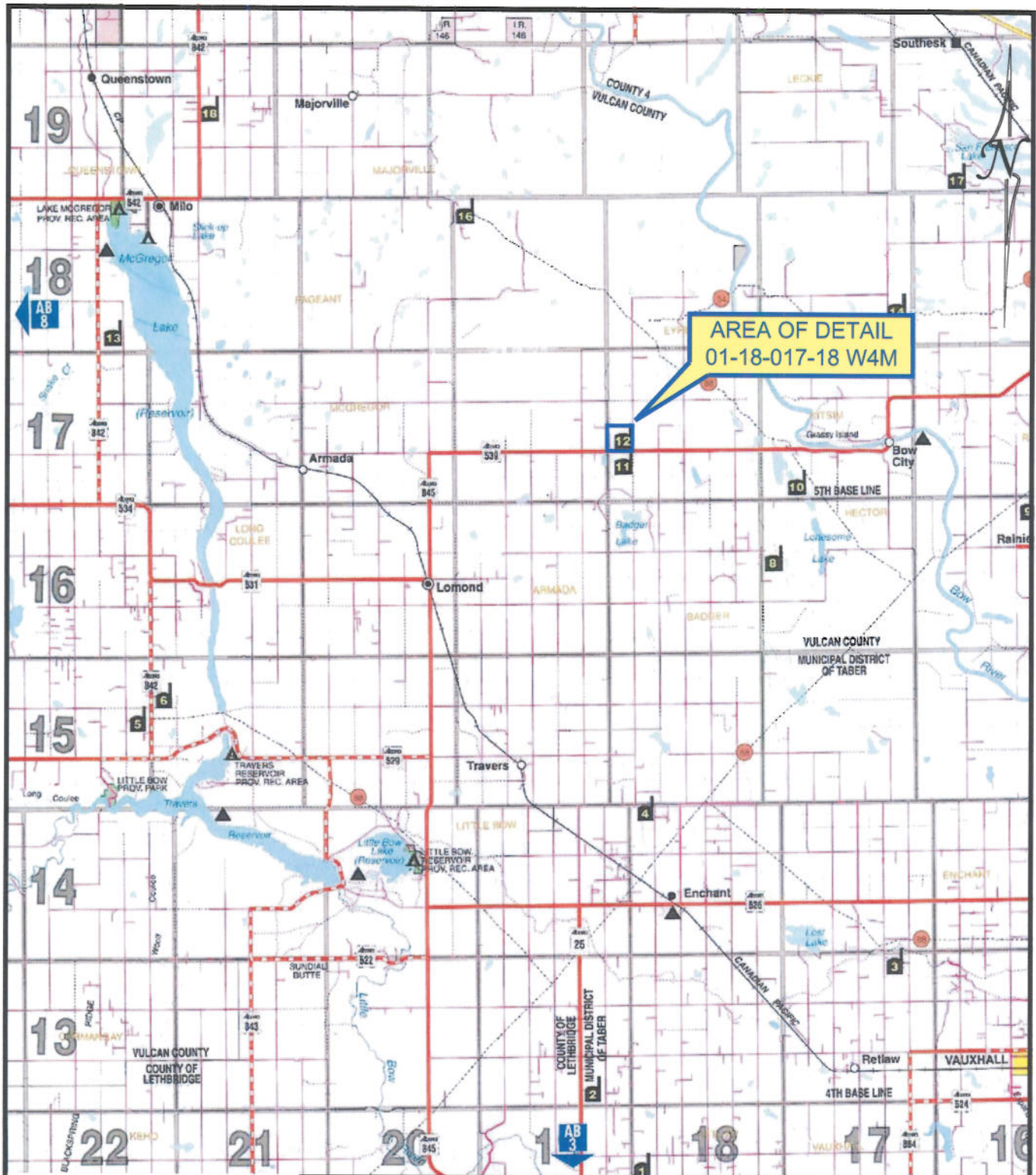
<sup>4</sup> Interpreted by North Shore unless otherwise indicated.

NC - No Criteria Established

**Bold** - Greater than applicable guidelines.

blank - not analysed

## FIGURES



0 5 10 15  
SCALE IN KILOMETERS

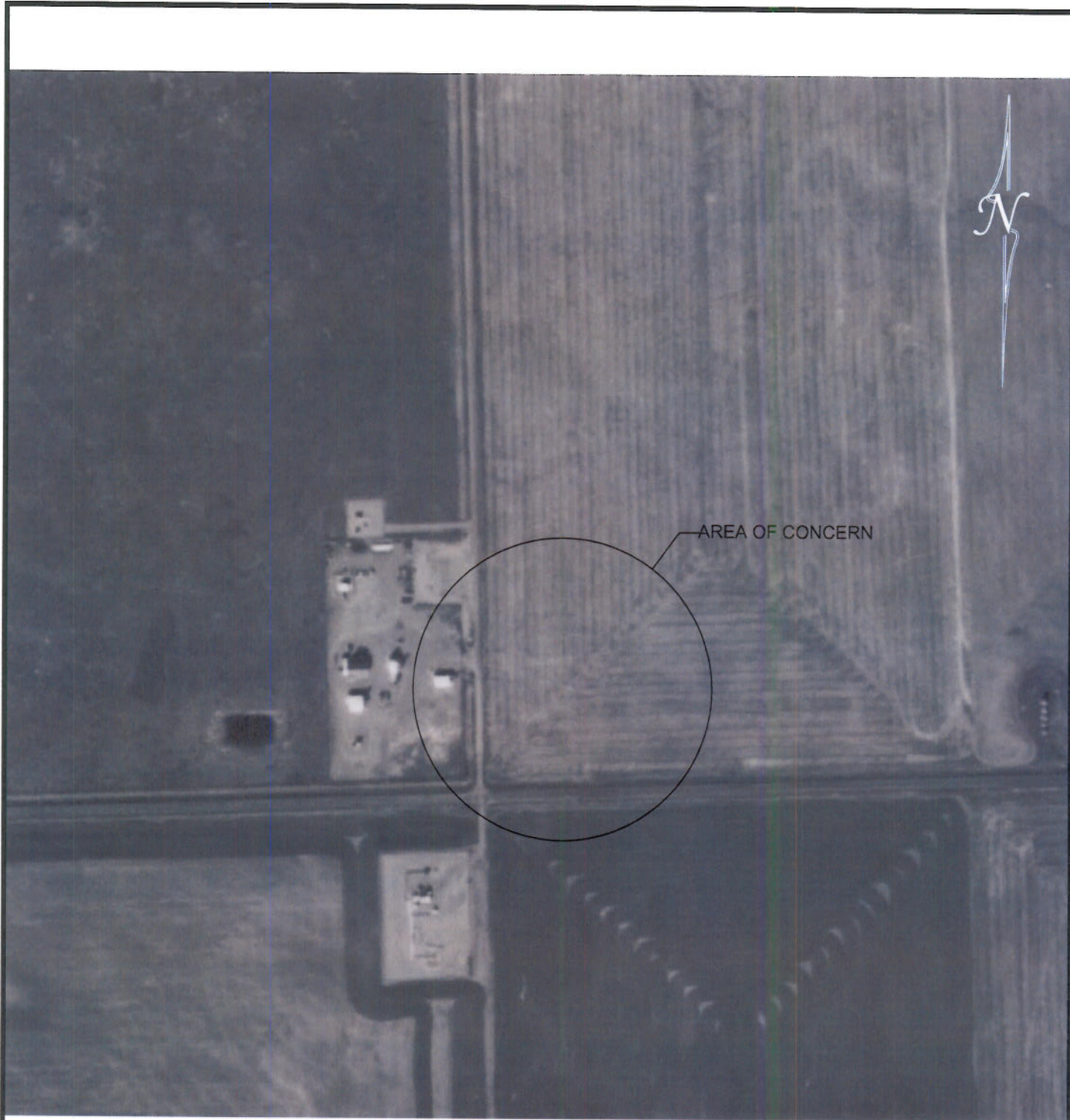
  
**NORTH SHORE**  
Environmental Consultants  
#143, 201 Kaska Road  
Sherwood Park, AB  
T8A 2J6

**HUSKY ENERGY**  
01-18-017-18 W4M  
KEY MAP

|                                 |                     |                   |                   |
|---------------------------------|---------------------|-------------------|-------------------|
| Date:<br>JULY 2008              | Drawn By:<br>JV     | Checked by:<br>RC | Figure:<br>1 OF 2 |
| North Shore File #:<br>E0003355 | Scale:<br>1:350 000 | Revision #:<br>00 |                   |

\*\*BASE MAP DERIVED FROM CANADIAN OIL ATLAS\*\*





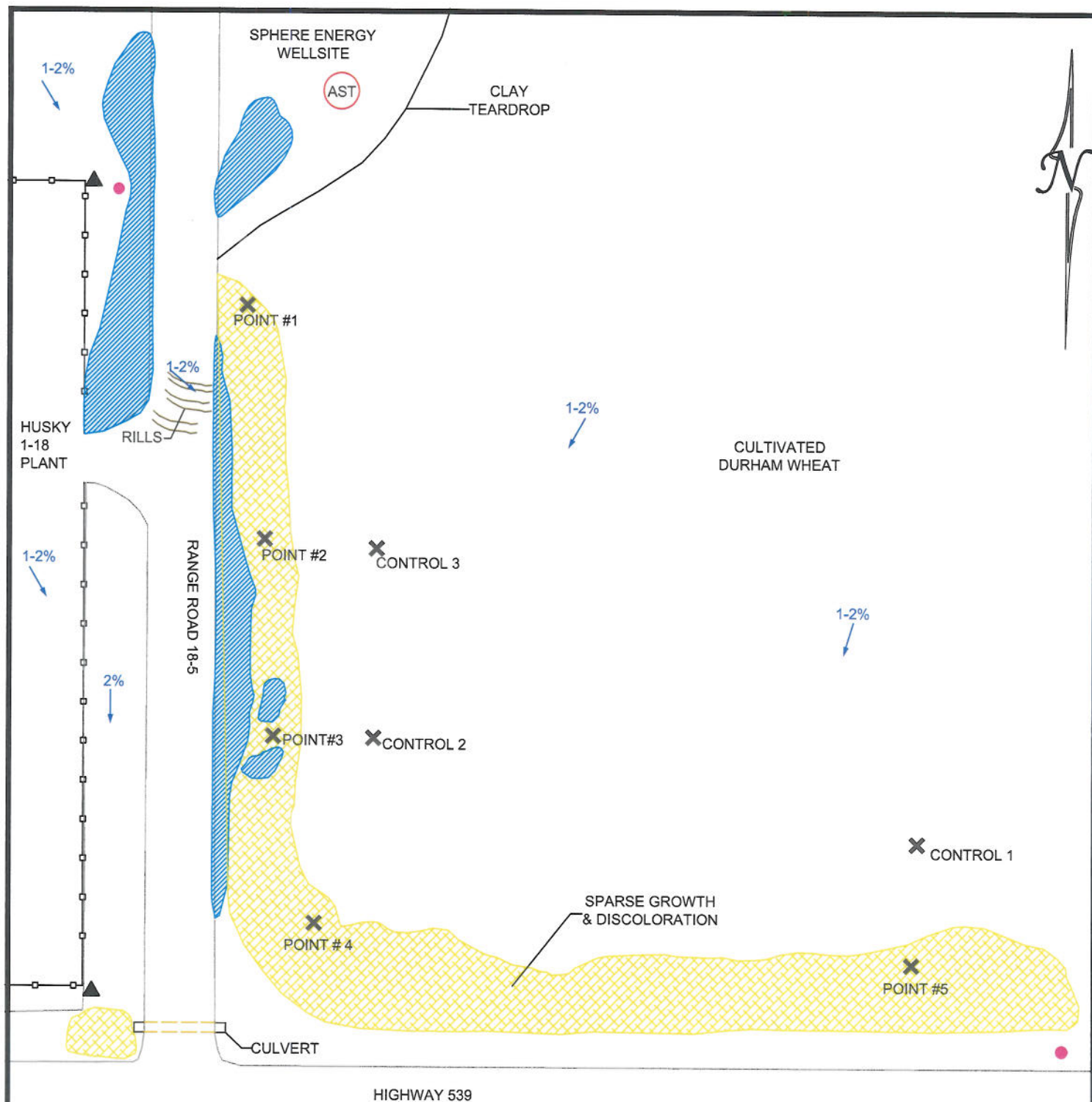
0 50 100 200  
SCALE IN METERS

  
**NORTH SHORE**  
Environmental Consultants  
#143, 201 Kaska Road  
Sherwood Park, AB  
T8A 2J6

**HUSKY ENERGY**  
01-18-017-18 W4M  
AERIAL PHOTO AS#5008- 1999

|                                |                  |                                  |                   |
|--------------------------------|------------------|----------------------------------|-------------------|
| Date:<br>JULY 2008             | Drawn By:<br>JV  | Checked by:<br>RC                | Figure:<br>2 OF 3 |
| North Shore Job #:<br>E0003355 | Scale:<br>1:5000 | File Name:<br>01-18-17-18 W4-Fg2 |                   |





#### LEGEND

- SURVEY MARKER
- POWER POLE
- FENCE LINE
- SAMPLE POINTS
- SLOPE DIRECTION
- STANDING WATER

**NORTH SHORE**  
 Environmental Consultants  
 #143, 201 Kaska Road  
 Sherwood Park, AB  
 T8A 2J6

#### HUSKY ENERGY 01-18-017-18 W4M SITE SHOWING SAMPLE LOCATIONS

|                                 |                  |                   |         |
|---------------------------------|------------------|-------------------|---------|
| Date:                           | Drawn By:        | Checked by:       | Figure: |
| JULY 2008                       | JV               | RC                | 3 OF 3  |
| North Shore File #:<br>E0003355 | Scale:<br>1:1000 | Revision #:<br>00 |         |

**APPENDIX A**  
**SITE PHOTOGRAPHS**



Photo 1: View of sign at entrance to gas plant, note standing water at entrance.



Photo 2: Looking north along range road 18-5, note the Sphere Energy wellsite in the upper right portion of the photo.





Photo 3: View of discoloured crop looking north along the east side of range road 18-5.



Photo 4: View of discoloured crop looking south along east edge of range road 18-5.





Photo 5: Close up view of discoloured wheat.



Photo 6: View of sparse growth at the SW corner of the field, looking east along highway 539.



**APPENDIX B**  
**LABORATORY CERTIFICATES OF ANALYSES**



**Environmental Division**

**Certificate of Analysis**

NORTH SHORE ENVIRONMENTAL

ATTN: RYAN COX

# 127, 11929-40TH STREET S.E.

CALGARY AB T2Z 4M8

Report Date: 10-MAR-10 14:19 (MT)

Version: FINAL REV. 2

Lab Work Order #: **L642291**

Date Received: **13-JUN-08**

Project P.O. #: NOT SUBMITTED

Job Reference: HUSKY

Legal Site Desc: 01-18-017-18 W4M

CofC Numbers: 00654, L642291

Other Information:

Comments: ADDITIONAL 15-JUL-08 10:16

10-MAR-10: Final Report

Victoria Blaire Robicheau  
Account Manager

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.  
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU  
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

# ALS LABORATORY GROUP ANALYTICAL REPORT

| Sample Details/Parameters             |                   | Result  | Qualifier* | D.L.   | Units | Extracted | Analyzed  | Batch   |
|---------------------------------------|-------------------|---------|------------|--------|-------|-----------|-----------|---------|
| L642291-3                             | POINT 3 (0-0.15M) |         |            |        |       |           |           |         |
| Sampled By: R.C. on 13-JUN-08 @ 14:00 |                   |         |            |        |       |           |           |         |
| Matrix: SOIL                          |                   |         |            |        |       |           |           |         |
| CCME BTEX, TVHs and TEHs              |                   |         |            |        |       |           |           |         |
| CCME BTEX                             |                   |         |            |        |       |           |           |         |
| Benzene                               |                   | <0.005  |            | 0.005  | mg/kg | 14-JUN-08 | 16-JUN-08 | R680754 |
| Toluene                               |                   | <0.01   |            | 0.01   | mg/kg | 14-JUN-08 | 16-JUN-08 | R680754 |
| Ethylbenzene                          |                   | <0.01   |            | 0.01   | mg/kg | 14-JUN-08 | 16-JUN-08 | R680754 |
| Xylenes                               |                   | <0.01   |            | 0.01   | mg/kg | 14-JUN-08 | 16-JUN-08 | R680754 |
| CCME Total Extractable Hydrocarbons   |                   |         |            |        |       |           |           |         |
| Prep/Analysis Dates                   |                   |         |            |        |       | 14-JUN-08 | 16-JUN-08 | R680368 |
| CCME Total Hydrocarbons               |                   |         |            |        |       |           |           |         |
| F1 (C6-C10)                           |                   | <5      |            | 5      | mg/kg |           | 17-JUN-08 |         |
| F1-BTEX                               |                   | <5      |            | 5      | mg/kg |           | 17-JUN-08 |         |
| F2 (C10-C16)                          |                   | <5      |            | 5      | mg/kg |           | 17-JUN-08 |         |
| F3 (C16-C34)                          |                   | 100     |            | 5      | mg/kg |           | 17-JUN-08 |         |
| F4 (C34-C50)                          |                   | 57      |            | 5      | mg/kg |           | 17-JUN-08 |         |
| Total Hydrocarbons (C6-C50)           |                   | 160     |            | 5      | mg/kg |           | 17-JUN-08 |         |
| Chromatogram to baseline at nC50      |                   | NO      |            |        |       |           | 17-JUN-08 |         |
| Miscellaneous Parameters              |                   |         |            |        |       |           |           |         |
| % Moisture                            |                   | 26      |            | 0.1    | %     | 14-JUN-08 | 15-JUN-08 | R680200 |
| MUST PSA % > 75um                     |                   | 35      |            | 1      | %     |           | 16-JUN-08 | R680676 |
| Glyphosate/AMPA                       |                   |         |            |        |       |           |           |         |
| Glyphosate                            |                   | <0.005  |            | 0.005  | mg/kg |           | 02-JUL-08 | R688888 |
| AMPA                                  |                   | 0.090   |            | 0.005  | mg/kg |           | 02-JUL-08 | R688888 |
| Herbicides & Pesticides in Soil       |                   |         |            |        |       |           |           |         |
| Surrogate: 2,4-D d5                   |                   | 93      |            | 25-175 | %     |           | 23-JUN-08 | R684722 |
| Surrogate: Treflan d14                |                   | 98      |            | 25-175 | %     |           | 23-JUN-08 | R684722 |
| Clopyralid                            |                   | <0.005  |            | 0.005  | mg/kg |           | 23-JUN-08 | R684722 |
| Dicamba                               |                   | 0.033   |            | 0.005  | mg/kg |           | 23-JUN-08 | R684722 |
| Mecoprop                              |                   | <0.005  |            | 0.005  | mg/kg |           | 23-JUN-08 | R684722 |
| MCPA                                  |                   | 0.021   |            | 0.005  | mg/kg |           | 23-JUN-08 | R684722 |
| 2,4-D                                 |                   | <0.005  |            | 0.005  | mg/kg |           | 23-JUN-08 | R684722 |
| Bromoxynil                            |                   | <0.005  |            | 0.005  | mg/kg |           | 23-JUN-08 | R684722 |
| Trifluralin                           |                   | <0.005  |            | 0.005  | mg/kg |           | 23-JUN-08 | R684722 |
| Triclopyr                             |                   | <0.005  |            | 0.005  | mg/kg |           | 23-JUN-08 | R684722 |
| Triallate                             |                   | <0.005  |            | 0.005  | mg/kg |           | 23-JUN-08 | R684722 |
| 2,4,5-T                               |                   | <0.005  |            | 0.005  | mg/kg |           | 23-JUN-08 | R684722 |
| Picloram                              |                   | <0.005  |            | 0.005  | mg/kg |           | 23-JUN-08 | R684722 |
| Fluazifop-p-butyl                     |                   | <0.005  |            | 0.005  | mg/kg |           | 23-JUN-08 | R684722 |
| Diclofop-methyl                       |                   | <0.005  |            | 0.005  | mg/kg |           | 23-JUN-08 | R684722 |
| Soil Sterilant Screen                 |                   |         |            |        |       |           |           |         |
| Tebuthiuron                           |                   | <0.0005 |            | 0.0005 | mg/kg |           | 26-JUN-08 | R686064 |
| Bromacil                              |                   | <0.0005 |            | 0.0005 | mg/kg |           | 26-JUN-08 | R686064 |
| Simazine                              |                   | <0.0005 |            | 0.0005 | mg/kg |           | 26-JUN-08 | R686064 |
| DCPMU                                 |                   | 0.0141  |            | 0.0005 | mg/kg |           | 26-JUN-08 | R686064 |
| Atrazine                              |                   | <0.0005 |            | 0.0005 | mg/kg |           | 26-JUN-08 | R686064 |
| Diuron                                |                   | 0.00735 |            | 0.0005 | mg/kg |           | 26-JUN-08 | R686064 |
| Available N, P, K and S               |                   |         |            |        |       |           |           |         |
| Available Nitrate-N                   |                   |         |            |        |       |           |           |         |
| Available Nitrate-N                   |                   | 1.8     |            | 0.4    | mg/kg | 19-JUN-08 | 19-JUN-08 | R682463 |
| Available Phosphate & Potassium       |                   |         |            |        |       |           |           |         |
| Available Phosphate-P                 |                   | 57      |            | 1      | mg/kg | 19-JUN-08 | 19-JUN-08 | R682276 |
| Available Potassium                   |                   | 462     |            | 2      | mg/kg | 19-JUN-08 | 19-JUN-08 | R682276 |
| Available Sulfate-S                   |                   |         |            |        |       |           |           |         |
| Available Sulfate-S                   |                   | 33      |            | 2      | mg/kg | 19-JUN-08 | 19-JUN-08 | R682328 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

| Sample Details/Parameters                  |                           | Result | Qualifier* | D.L.   | Units  | Extracted | Analyzed  | Batch   |
|--|---------------------------|--------|------------|--------|--------|-----------|-----------|---------|
| L642291-3                                  | POINT 3 (0-0.15M)         |        |            |        |        |           |           |         |
| Sampled By:                                | R.C. on 13-JUN-08 @ 14:00 |        |            |        |        |           |           |         |
| Matrix:                                    | SOIL                      |        |            |        |        |           |           |         |
| <b>Detailed Salinity</b>                   |                           |        |            |        |        |           |           |         |
| <b>Chloride (Cl) (Saturated Paste)</b>     |                           |        |            |        |        |           |           |         |
| Chloride (Cl)                              | <20                       |        |            | 20     | mg/L   |           | 16-JUN-08 | R680824 |
| <b>SAR</b>                                 |                           |        |            |        |        |           |           |         |
| Calcium (Ca)                               | 116                       |        |            | 5.0    | mg/L   |           | 19-JUN-08 | R681861 |
| Potassium (K)                              | 36.6                      |        |            | 2.0    | mg/L   |           | 19-JUN-08 | R681861 |
| Magnesium (Mg)                             | 24.0                      |        |            | 3.0    | mg/L   |           | 19-JUN-08 | R681861 |
| Sodium (Na)                                | 63.9                      |        |            | 2.0    | mg/L   |           | 19-JUN-08 | R681861 |
| SAR  | 1.41                      |        |            | 0.10   | SAR    |           | 19-JUN-08 | R681861 |
| <b>Sulphate (SO4)</b>                      |                           |        |            |        |        |           |           |         |
| Sulfur (as SO4)                            | 297                       |        |            | 6      | mg/L   |           | 19-JUN-08 | R681861 |
| <b>pH and EC (Saturated Paste)</b>         |                           |        |            |        |        |           |           |         |
| % Saturation                               | 44.7                      |        |            | 0.1    | %      |           | 16-JUN-08 | R680785 |
| pH in Saturated Paste                      | 7.24                      |        |            | 0.01   | pH     |           | 16-JUN-08 | R680785 |
| Conductivity Sat. Paste                    | 1.01                      |        |            | 0.03   | dS m-1 |           | 16-JUN-08 | R680785 |
| L642291-5                                  | POINT 5 (0-0.15M)         |        |            |        |        |           |           |         |
| Sampled By:                                | R.C. on 13-JUN-08 @ 14:00 |        |            |        |        |           |           |         |
| Matrix:                                    | SOIL                      |        |            |        |        |           |           |         |
| <b>CCME BTEX, TVHs and TEHs</b>            |                           |        |            |        |        |           |           |         |
| <b>CCME BTEX</b>                           |                           |        |            |        |        |           |           |         |
| Benzene                                    | <0.005                    |        |            | 0.005  | mg/kg  | 14-JUN-08 | 16-JUN-08 | R680754 |
| Toluene                                    | <0.01                     |        |            | 0.01   | mg/kg  | 14-JUN-08 | 16-JUN-08 | R680754 |
| Ethylbenzene                               | <0.01                     |        |            | 0.01   | mg/kg  | 14-JUN-08 | 16-JUN-08 | R680754 |
| Xylenes                                    | <0.01                     |        |            | 0.01   | mg/kg  | 14-JUN-08 | 16-JUN-08 | R680754 |
| <b>CCME Total Extractable Hydrocarbons</b> |                           |        |            |        |        |           |           |         |
| Prep/Analysis Dates                        |                           |        |            |        |        | 14-JUN-08 | 16-JUN-08 | R680368 |
| <b>CCME Total Hydrocarbons</b>             |                           |        |            |        |        |           |           |         |
| F1 (C6-C10)                                | <5                        |        |            | 5      | mg/kg  |           | 17-JUN-08 |         |
| F1-BTEX                                    | <5                        |        |            | 5      | mg/kg  |           | 17-JUN-08 |         |
| F2 (C10-C16)                               | <5                        |        |            | 5      | mg/kg  |           | 17-JUN-08 |         |
| F3 (C16-C34)                               | 75                        |        |            | 5      | mg/kg  |           | 17-JUN-08 |         |
| F4 (C34-C50)                               | 40                        |        |            | 5      | mg/kg  |           | 17-JUN-08 |         |
| Total Hydrocarbons (C6-C50)                | 120                       |        |            | 5      | mg/kg  |           | 17-JUN-08 |         |
| Chromatogram to baseline at nC50           | NO                        |        |            |        |        |           | 17-JUN-08 |         |
| <b>Miscellaneous Parameters</b>            |                           |        |            |        |        |           |           |         |
| % Moisture                                 | 19                        |        |            | 0.1    | %      | 14-JUN-08 | 15-JUN-08 | R680200 |
| MUST PSA % > 75um                          | 36                        |        |            | 1      | %      |           | 16-JUN-08 | R680676 |
| <b>Glyphosate/AMPA</b>                     |                           |        |            |        |        |           |           |         |
| Glyphosate                                 | 0.52                      |        |            | 0.005  | mg/kg  |           | 02-JUL-08 | R688888 |
| AMPA                                       | 0.21                      |        |            | 0.005  | mg/kg  |           | 02-JUL-08 | R688888 |
| <b>Herbicides &amp; Pesticides in Soil</b> |                           |        |            |        |        |           |           |         |
| Surrogate: 2,4-D d5                        | 119                       |        |            | 25-175 | %      |           | 23-JUN-08 | R684722 |
| Surrogate: Treflan d14                     | 121                       |        |            | 25-175 | %      |           | 23-JUN-08 | R684722 |
| Clopyralid                                 | <0.005                    |        |            | 0.005  | mg/kg  |           | 23-JUN-08 | R684722 |
| Dicamba                                    | 0.008                     |        |            | 0.005  | mg/kg  |           | 23-JUN-08 | R684722 |
| Mecoprop                                   | <0.005                    |        |            | 0.005  | mg/kg  |           | 23-JUN-08 | R684722 |
| MCPA                                       | 0.011                     |        |            | 0.005  | mg/kg  |           | 23-JUN-08 | R684722 |
| 2,4-D                                      | 0.018                     |        |            | 0.005  | mg/kg  |           | 23-JUN-08 | R684722 |
| Bromoxynil                                 | <0.005                    |        |            | 0.005  | mg/kg  |           | 23-JUN-08 | R684722 |
| Trifluralin                                | <0.005                    |        |            | 0.005  | mg/kg  |           | 23-JUN-08 | R684722 |
| Triclopyr                                  | <0.005                    |        |            | 0.005  | mg/kg  |           | 23-JUN-08 | R684722 |
| Triallate                                  | <0.005                    |        |            | 0.005  | mg/kg  |           | 23-JUN-08 | R684722 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.



ALS LABORATORY GROUP ANALYTICAL REPORT

| Sample Details/Parameters   | Result  | Qualifier* | D.L.   | Units  | Extracted | Analyzed  | Batch   |
|---|---------|------------|--------|--------|-----------|-----------|---------|
| L642291-6     CONTROL 1 (0-0.15M)<br>Sampled By:    R.C. on 13-JUN-08 @ 14:00<br>Matrix:        SOIL<br><b>pH and EC (Saturated Paste)</b><br>Conductivity Sat. Paste | 3.04    |            | 0.03   | dS m-1 |           | 18-JUL-08 | R696177 |
| L642291-7     CONTROL 2 (0-0.15M)<br>Sampled By:    R.C. on 13-JUN-08 @ 14:00<br>Matrix:        SOIL<br><b>Miscellaneous Parameters</b><br>MUST PSA % > 75um          | 35      |            | 1      | %      |           | 16-JUN-08 | R680676 |
| <b>Glyphosate/AMPA</b><br>Glyphosate  | 0.11    |            | 0.005  | mg/kg  |           | 22-JUL-08 | R698550 |
| AMPA  | 0.22    |            | 0.005  | mg/kg  |           | 22-JUL-08 | R698550 |
| <b>Herbicides &amp; Pesticides in Soil</b><br>Surrogate: 2,4-D d5   | 129     |            | 25-175 | %      |           | 25-JUL-08 | R700488 |
| Surrogate: Treflan d14  | 95      |            | 25-175 | %      |           | 25-JUL-08 | R700488 |
| Clopyralid  | <0.005  |            | 0.005  | mg/kg  |           | 25-JUL-08 | R700488 |
| Dicamba   | <0.005  |            | 0.005  | mg/kg  |           | 25-JUL-08 | R700488 |
| Mecoprop  | <0.005  |            | 0.005  | mg/kg  |           | 25-JUL-08 | R700488 |
| MCPA  | <0.005  |            | 0.005  | mg/kg  |           | 25-JUL-08 | R700488 |
| 2,4-D   | <0.005  |            | 0.005  | mg/kg  |           | 25-JUL-08 | R700488 |
| Bromoxynil  | <0.005  |            | 0.005  | mg/kg  |           | 25-JUL-08 | R700488 |
| Trifluralin   | <0.005  |            | 0.005  | mg/kg  |           | 25-JUL-08 | R700488 |
| Triclopyr   | <0.005  |            | 0.005  | mg/kg  |           | 25-JUL-08 | R700488 |
| Triallate   | <0.005  |            | 0.005  | mg/kg  |           | 25-JUL-08 | R700488 |
| 2,4,5-T   | <0.005  |            | 0.005  | mg/kg  |           | 25-JUL-08 | R700488 |
| Picloram  | <0.005  |            | 0.005  | mg/kg  |           | 25-JUL-08 | R700488 |
| Fluazifop-p-butyl   | <0.005  |            | 0.005  | mg/kg  |           | 25-JUL-08 | R700488 |
| Diclofop-methyl   | <0.005  |            | 0.005  | mg/kg  |           | 25-JUL-08 | R700488 |
| <b>Soil Sterilant Screen</b><br>Tebuthiuron   | <0.0005 |            | 0.0005 | mg/kg  |           | 22-JUL-08 | R698385 |
| Bromacil  | <0.0005 |            | 0.0005 | mg/kg  |           | 22-JUL-08 | R698385 |
| Simazine  | <0.0005 |            | 0.0005 | mg/kg  |           | 22-JUL-08 | R698385 |
| DCPMU   | <0.0005 |            | 0.0005 | mg/kg  |           | 22-JUL-08 | R698385 |
| Atrazine  | <0.0005 |            | 0.0005 | mg/kg  |           | 22-JUL-08 | R698385 |
| Diuron  | 0.0026  |            | 0.0005 | mg/kg  |           | 22-JUL-08 | R698385 |
| <b>Available N, P, K and S</b><br><b>Available Nitrate-N</b><br>Available Nitrate-N   | 1.8     |            | 0.4    | mg/kg  | 19-JUN-08 | 19-JUN-08 | R682463 |
| <b>Available Phosphate &amp; Potassium</b><br>Available Phosphate-P   | 28      |            | 1      | mg/kg  | 19-JUN-08 | 19-JUN-08 | R682276 |
| Available Potassium   | 535     |            | 2      | mg/kg  | 19-JUN-08 | 19-JUN-08 | R682276 |
| <b>Available Sulfate-S</b><br>Available Sulfate-S   | 113     |            | 2      | mg/kg  | 19-JUN-08 | 19-JUN-08 | R682328 |
| <b>Detailed Salinity</b><br><b>Chloride (Cl) (Saturated Paste)</b><br>Chloride (Cl)   | <20     |            | 20     | mg/L   |           | 16-JUN-08 | R680824 |
| <b>SAR</b><br>Calcium (Ca)  | 195     |            | 5.0    | mg/L   |           | 17-JUN-08 | R680763 |
| Potassium (K)   | 41.5    |            | 2.0    | mg/L   |           | 17-JUN-08 | R680763 |
| Magnesium (Mg)  | 48.6    |            | 3.0    | mg/L   |           | 17-JUN-08 | R680763 |
| Sodium (Na)   | 97.8    |            | 2.0    | mg/L   |           | 17-JUN-08 | R680763 |
| SAR   | 1.62    |            | 0.10   | SAR    |           | 17-JUN-08 | R680763 |
| <b>Sulphate (SO4)</b><br>Sulfur (as SO4)  | 804     |            | 6      | mg/L   |           | 17-JUN-08 | R680763 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS LABORATORY GROUP ANALYTICAL REPORT

| Sample Details/Parameters   | Result   | Qualifier* | D.L.   | Units   | Extracted | Analyzed   | Batch  |
|---|--|------------|--|---|-----------|--|--|
| L642291-7      CONTROL 2 (0-0.15M)<br>Sampled By:    R.C. on 13-JUN-08 @ 14:00<br>Matrix:        SOIL<br><b>pH and EC (Saturated Paste)</b><br>% Saturation<br>pH in Saturated Paste<br>Conductivity Sat. Paste   | <br><br><br>50.7<br>6.88<br>1.62   |            | <br><br><br>0.1<br>0.01<br>0.03  | <br><br><br>%<br>pH<br>dS m-1   |           | <br><br><br>16-JUN-08<br>16-JUN-08<br>16-JUN-08  | <br><br><br>R680785<br>R680785<br>R680785  |
| L642291-8      CONTROL 3 (0-0.15M)<br>Sampled By:    R.C. on 13-JUN-08 @ 14:00<br>Matrix:        SOIL<br><br><b>Detailed Salinity</b><br><b>Chloride (Cl) (Saturated Paste)</b><br>Chloride (Cl)<br><b>SAR</b><br>Calcium (Ca)<br>Potassium (K)<br>Magnesium (Mg)<br>Sodium (Na)<br>SAR<br><b>Sulphate (SO4)</b><br>Sulfur (as SO4)<br><b>pH and EC (Saturated Paste)</b><br>% Saturation<br>pH in Saturated Paste<br>Conductivity Sat. Paste | <br><br><br><br><br><br><br><br><br><br><br><br><br>50<br><br>53.3<br>7.35<br>0.63 |            | <br><br><br><br><br><br><br><br><br><br><br><br><br>6<br><br>0.1<br>0.01<br>0.03 | <br><br><br><br><br><br><br><br><br><br><br><br><br>mg/L<br>mg/L<br>mg/L<br>mg/L<br>SAR<br>mg/L<br><br>pH<br>dS m-1 |           | <br><br><br><br><br><br><br><br><br><br><br><br><br>18-JUL-08<br>21-JUL-08<br>21-JUL-08<br>21-JUL-08<br>21-JUL-08<br>21-JUL-08<br>21-JUL-08<br>18-JUL-08<br>18-JUL-08<br>18-JUL-08 | <br><br><br><br><br><br><br><br><br><br><br><br><br>R696318<br>R696851<br>R696851<br>R696851<br>R696851<br>R696851<br>R696851<br>R696177<br>R696177<br>R696177 |
|   |  |            |  |   |           |  |  |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## Reference Information

### QC Samples with Qualifiers & Comments:

| QC Type Description | Parameter   | Qualifier | Applies to Sample Number(s) |
|---------------------|-------------|-----------|-----------------------------|
| Matrix Spike        | Tebuthiuron | E         | L642291-3, -5               |
| Matrix Spike        | AMPA        | E         | L642291-3, -5               |
| Matrix Spike        | Glyphosate  | E         | L642291-3, -5               |

### Test Method References:

| ALS Test Code       | Matrix | Test Description                    | Method Reference**                |
|---------------------|--------|-------------------------------------|-----------------------------------|
| CL-SAR-CL           | Soil   | Chloride (Cl) (Saturated Paste)     | CSSS CH15/EPA300.1                |
| ETL-BTX,TVH-CCME-CL | Soil   | CCME BTEX                           | CCME CWS-PHC Dec-2000 - Pub# 1310 |
| ETL-TEH-CCME-CL     | Soil   | CCME Total Extractable Hydrocarbons | CCME CWS-PHC Dec-2000 - Pub# 1310 |
| ETL-TVH,TEH-CCME-CL | Soil   | CCME Total Hydrocarbons             | CCME CWS-PHC Dec-2000 - Pub# 1310 |

Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

Hydrocarbon results are expressed on a dry weight basis.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.

In samples where BTEX and F1 were analyzed, F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:

1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:

1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

|               |      |                                 |  |
|---------------|------|---------------------------------|--|
| GLYPH/AMPA-ED | Soil | Glyphosate/AMPA                 | EPA 8318-HPLC/Fluorescence             |
| GLYPH/AMPA-ED | Soil | Glyphosate/AMPA                 | JAFC, 1994, VOL. 42, NO. 12, 2751-2759 |
| HERBSCR-ED    | Soil | Herbicides & Pesticides in Soil | MODIFIED JAOAC, VOL. 74, NO. 3, 1991.  |
| NO3-AVAIL-SK  | Soil | Available Nitrate-N             | CSSS (1993) 4.3                        |

Available Nitrate and Nitrite are extracted from the soil using a dilute calcium chloride solution.

Nitrate is quantitatively reduced to nitrite by passage of the sample through a copperized cadmium column. The nitrite (reduced nitrate plus original nitrite) is then determined by diazotizing with sulfanilamide followed by coupling with N-(1-naphthyl) ethylenediamine dihydrochloride. The resulting water soluble dye has a magenta color which is measured at colorimetrically at 520nm.

Reference:

Carter, Martin. Soil Sampling and Methods of Analysis. Can. Soc. Soil Sci.(1993) method 4.3

|                      |      |                                 |                                      |
|----------------------|------|---------------------------------|--------------------------------------|
| PO4/K-AVAIL-SK       | Soil | Available Phosphate & Potassium | Comm. Soil Sci. Plant Anal, 25 (5&6) |
| PREP-MOISTURE-CL     | Soil | % Moisture                      | Oven dry 105C-Gravimetric            |
| PSA-MUST-CL          | Soil | MUST PSA D50 > 75um             | ASTM D422-63                         |
| SALINITY-INTCHECK-CL | Soil |                                 | CSSS 18.4-Calculation                |
| SAR-CALC-CL          | Soil | SAR                             | CSSS 18.4-Calculation                |
| SAT/PH/EC-CL         | Soil | pH and EC (Saturated Paste)     | CSSS, Chp. 18 - Saturation Extract   |
| SO4-AVAIL-SK         | Soil | Available Sulfate-S             | NCR-13 (1998) p. 35-39               |

The soil is extracted with a weak calcium chloride solution. The calcium chloride serves to reduce the extraction of organic materials and increases flocculation of the soil in the extract. Total S in the extract is then determined by ICP-AES, which is considered to be equivalent to the plant available S for mineral soils from the prairies.

## Reference Information

### Test Method References:

| ALS Test Code  | Matrix | Test Description      | Method Reference** |
|--|--------|-----------------------|--------------------|
| Reference:<br>Recommended Methods of Soil Analysis for Canadian Prairie Agricultural Soils. Alberta Agriculture(1988), p. 28 |        |                       |                    |
| SO4-PASTE-ICP-CL   | Soil   | Sulphate (SO4)        | CSSS CH15/EPA6010  |
| SOIL STER-ED   | Soil   | Soil Sterilant Screen | EPA 8318-LC/UV     |

\*\* ALS test methods may incorporate modifications from specified reference methods to improve performance.

*The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:*

| Laboratory Definition Code | Laboratory Location                                    |
|----------------------------|--|
| CL                         | ALS LABORATORY GROUP - CALGARY, ALBERTA, CANADA        |
| ED                         | ALS LABORATORY GROUP - EDMONTON, ALBERTA, CANADA       |
| SK                         | ALS LABORATORY GROUP - SASKATOON, SASKATCHEWAN, CANADA |

### Chain of Custody Numbers:

00654 L642291

### GLOSSARY OF REPORT TERMS

*Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.*

*mg/kg - milligrams per kilogram based on dry weight of sample*

*mk/kg wwt - milligrams per kilogram based on wet weight of sample*

*mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight*

*mg/L - unit of concentration based on volume, parts per million.*

*< - Less than.*

*D.L. - The reporting limit.*

*N/A - Result not available. Refer to qualifier code and definition for explanation.*

*Test results reported relate only to the samples as received by the laboratory.*

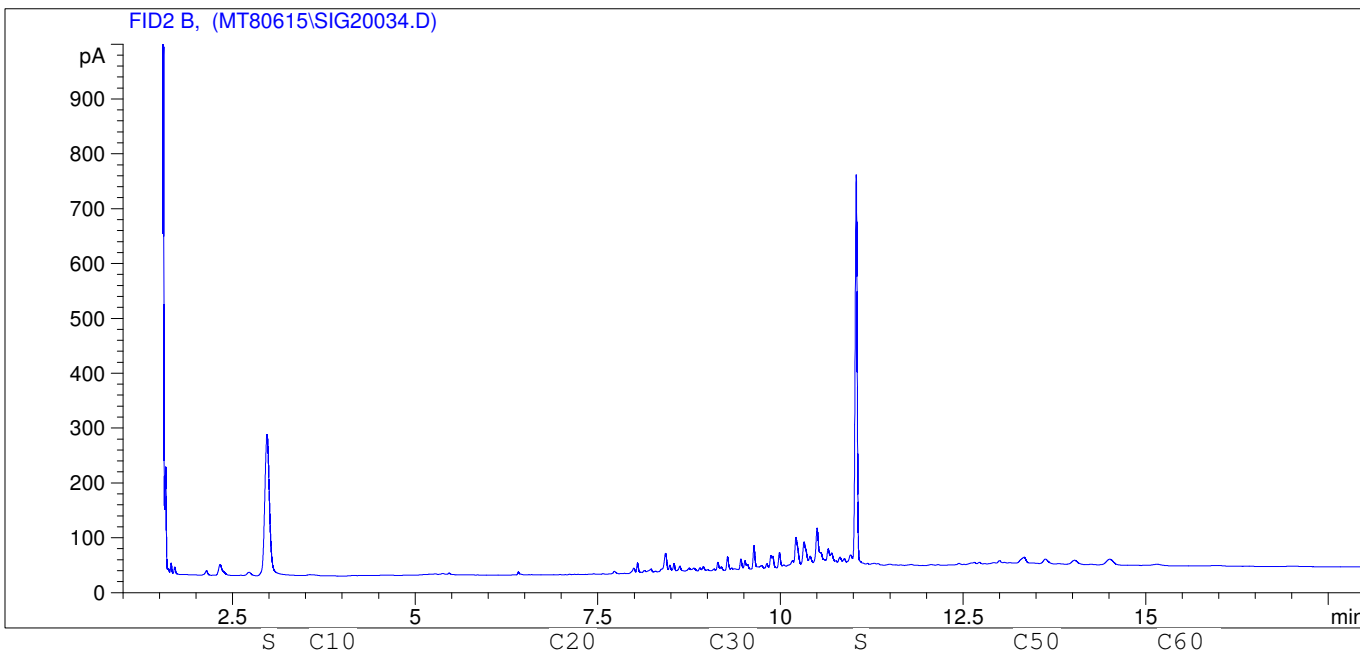
*UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.*

*Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.*

Client ID: POINT 3 (0-0.15M) ->

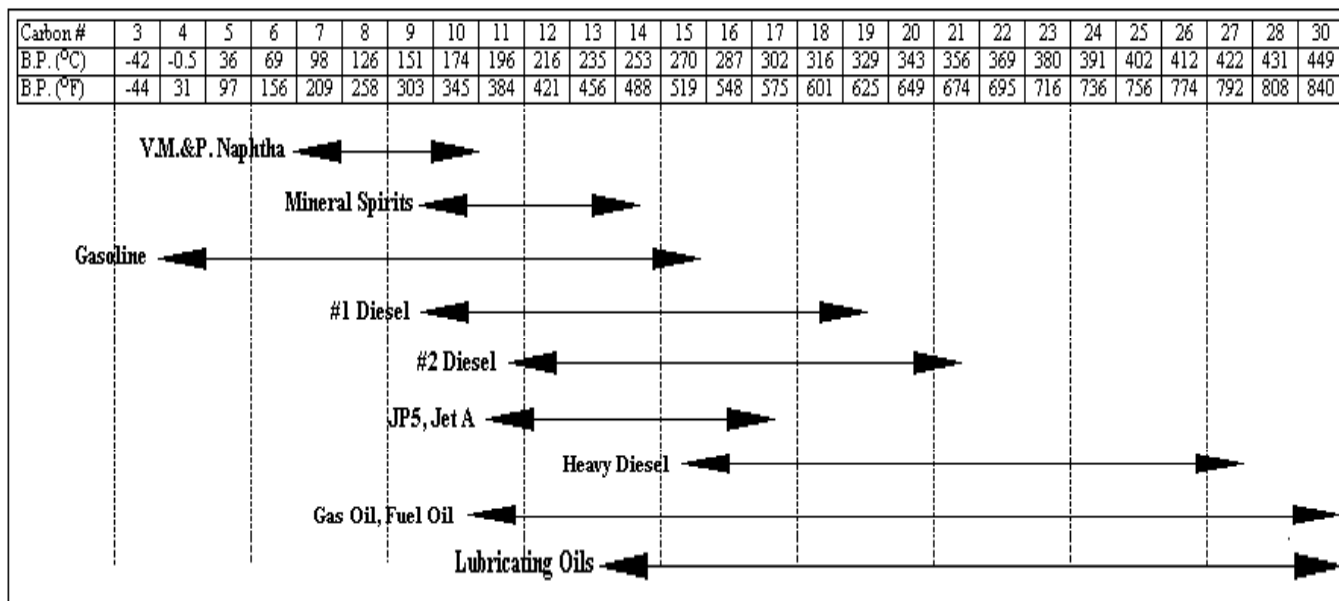


Sample ID: L642291-3 V20  
Injection Date: 6/16/2008 5:55:20 AM  
Injection Time: 6/16/2008 5:55:20 AM  
Instrument ID: 6890HP6  
Operator: organics



S=Surrogate

Boiling Point Distribution Range for Petroleum Based Fuel Products



Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII.

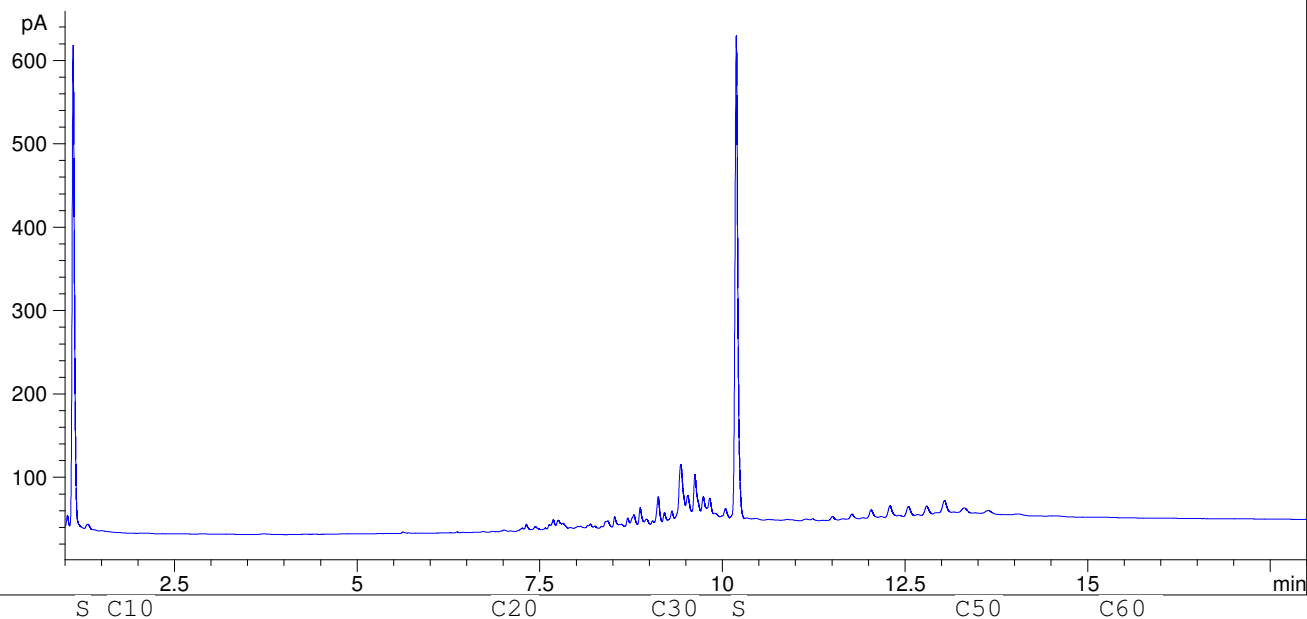


Client ID: POINT 5 (0-0.15M) ->



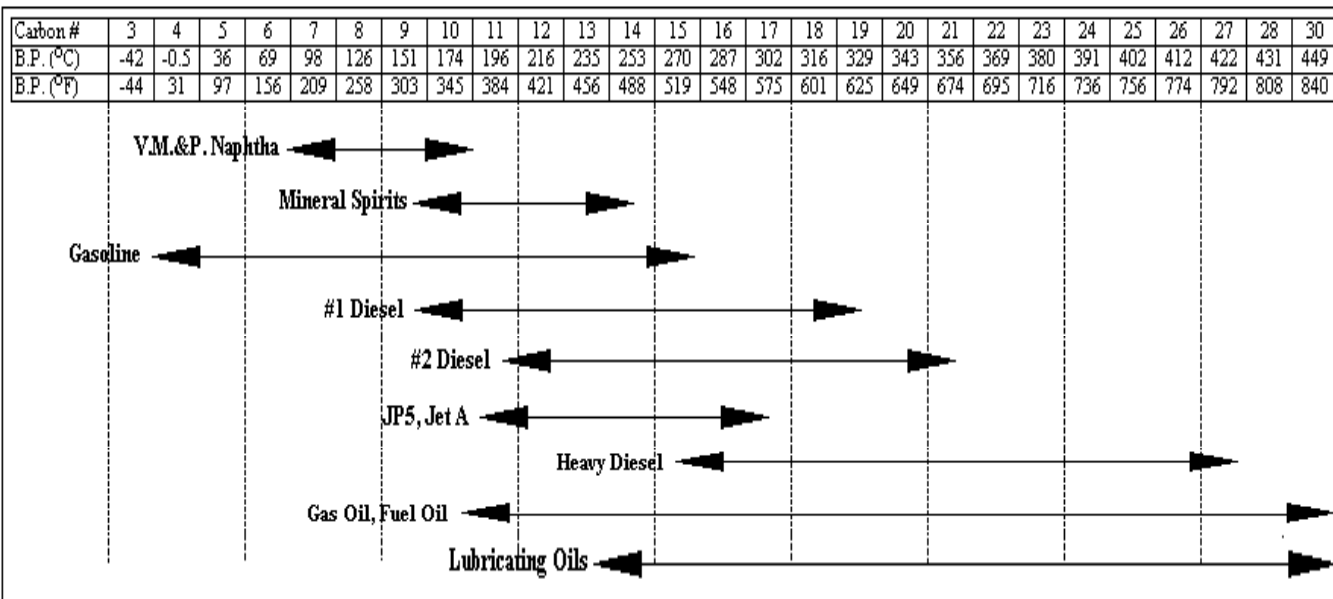
Sample ID: L642291-5 V20  
Injection Date: 6/16/2008 1:08:42 AM  
Injection Time: 6/16/2008 1:08:42 AM  
Instrument ID: 6890HP6  
Operator: organics

FID1 A, (MT80615\SIG10025.D)



S=Surrogate

Boiling Point Distribution Range for Petroleum Based Fuel Products



Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII.



Environmental Division

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L642291

|   |   |  |              |  |             |   |   |   |   |   |   |   |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|--|--------------|--|-------------|---|---|---|---|---|---|---|---|---|---|--|--|---------|----------------------|----------|------------|------|----------|-------------------|-------------------|--|--|--|--|--|--|--|--|--|----------------------|----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <b>REPORT TO:</b>   |   | <b>REPORT FORMAT / DISTRIBUTION</b>            |              |  |             | <b>SERVICE REQUESTED</b>  |   |   |   |   |   |   |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| COMPANY: North Shore Environmental  |   | STANDARD OTHER                                 |              |  |             | REGULAR SERVICE (DEFAULT) <input checked="" type="checkbox"/>   |   |   |   |   |   |   |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CONTACT: Ryan Cox   |   | PDF EXCEL CUSTOM FAX                           |              |  |             | RUSH SERVICE (2-3 DAYS)   |   |   |   |   |   |   |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ADDRESS: #127, 11929-40th Street SE   |   | EMAIL 1: rcox@northshoreenv.com                |              |  |             | PRIORITY SERVICE (1 DAY or ASAP)  |   |   |   |   |   |   |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Calgary, AB T2Z 4M8   |   | EMAIL 2:                                       |              |  |             | EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS  |   |   |   |   |   |   |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PHONE: 228-3095 FAX: 723-3095   |   |  |              |  |             |   |   |   |   |   |   |   |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| INVOICE TO: SAME AS REPORT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO   |   | INDICATE BOTTLES: FILTERED / PRESERVED (F/P) → |              |  |             | ANALYSIS REQUEST  |   |   |   |   |   |   |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| COMPANY:  |   | CLIENT / PROJECT INFORMATION:                  |              |  |             | <table border="1"> <tr> <td rowspan="5">Herbscr</td> <td rowspan="5">Glyphosate (Roundup)</td> <td rowspan="5">Soilster</td> <td rowspan="5">SAL-DETAIL</td> <td rowspan="5">NPKS</td> <td rowspan="5">PSA-MUST</td> <td rowspan="5">BTX, TVH, TEH-CME</td> <td colspan="10"></td> <td rowspan="5">NUMBER OF CONTAINERS</td> </tr> <tr><td colspan="10"></td></tr> <tr><td colspan="10"></td></tr> <tr><td colspan="10"></td></tr> <tr><td colspan="10"></td></tr> </table> |   |   |   |   |   |   |   |   |   |  |  | Herbscr | Glyphosate (Roundup) | Soilster | SAL-DETAIL | NPKS | PSA-MUST | BTX, TVH, TEH-CME |                   |  |  |  |  |  |  |  |  |  | NUMBER OF CONTAINERS |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Herbscr   | Glyphosate (Roundup)  | Soilster                                       | SAL-DETAIL   | NPKS   | PSA-MUST    |   |   |   |   |   |   |   |   |   |   |  |  |         |                      |          |            |      |          |                   | BTX, TVH, TEH-CME |  |  |  |  |  |  |  |  |  |                      | NUMBER OF CONTAINERS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |   |  |              |  |             |   |   |   |   |   |   |   |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |   |  |              |  |             |   |   |   |   |   |   |   |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|   |   |  |              |  |             |   |   |   |   |   |   |   |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CONTACT:  |   | JOB #: Husky                                   |              |  |             |   |   |   |   |   |   |   |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ADDRESS:  |   | PO/AFE:  |              |  |             |   |   |   |   |   |   |   |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |   | Legal Site Description: 01-18-017-18 W4M       |              |  |             |   |   |   |   |   |   |   |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PHONE:  |   | QUOTE #:                                       |              |  |             |   |   |   |   |   |   |   |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lab Work Order # (lab use only)   |   | SAMPLER (Initials): R.C.                       |              |  |             |   |   |   |   |   |   |   |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sample #  | SAMPLE IDENTIFICATION<br>(This description will appear on the report) |  | DATE         | TIME   | SAMPLE TYPE |   |   |   |   |   |   |   |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | Point 1 (0-0.15m)   |  | June 13/08   | 1400hrs                                      | Soil        |   |   |   |   |   |   |   |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | Point 2 (0-0.10m)   |  |              |  |             |   |   |   |   |   |   |   |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | Point 3 (0-0.10m)   |  |              |  |             | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | Point 4 (0-0.10m)   |  |              |  |             | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | Point 5 (0-0.10m)   |  |              |  |             | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | Control 1 (0-0.10m)   |  |              |  |             |   |   |   |   |   |   |   |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | Control 2 (0-0.10m)   |  |              |  |             |   |   |   | ✓ | ✓ | ✓ |   |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | Control 3 (0-0.10m)   |  |              |  |             |   |   |   |   |   |   |   | ↓ | ↓ | ↓ |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GUIDELINES / REGULATIONS  |   |  |              |  |             |   |   |   |   |   |   |   |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AENV Tier 1 (2007)  |   |  |              |  |             |   |   |   |   |   |   |   |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Failure to complete all portions of this form may delay analysis. Please fill in this from LEGIBLY.   |   |  |              |  |             |   |   |   |   |   |   |   |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the reverse page of the white report copy. |   |  |              |  |             |   |   |   |   |   |   |   |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RELINQUISHED BY:  | DATE & TIME:  | RECEIVED BY:                                   | DATE & TIME: | TEMPERATURE                                  |             |   |   |   |   |   |   |   |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Robert Pelley   | June 13 1640  | [Signature]                                    | June 13/08   | 21°  |             |   |   |   |   |   |   |   |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RELINQUISHED BY:  | DATE & TIME:  | RECEIVED BY:                                   | DATE & TIME: | SAMPLES RECEIVED IN GOOD CONDITION? YES / NO |             |   |   |   |   |   |   |   |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |   |  | 4:35pm       | (If no provide details)                      |             |   |   |   |   |   |   |   |   |   |   |  |  |         |                      |          |            |      |          |                   |                   |  |  |  |  |  |  |  |  |  |                      |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |