

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

| | | | |
|--|-------|-----------------------|-------|
| 1. OGCC Operator Number: | _____ | API Number: | _____ |
| 2. Name of Operator: | _____ | OGCC Facility ID # | _____ |
| 3. Well/Facility Name: | _____ | Well/Facility Number: | _____ |
| 4. Location (QtrQtr, Sec, Twp, Rng, Meridian): | | | |

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. DESCRIBE PROPOSED OR COMPLETED OPERATIONS

Introduction

Encana Oil & Gas (USA) Inc. (Encana) is submitting this Form 4 Sundry Notice to request final closure status for the earthen pit associated with the Foundation Creek B #7405 (COGCC facility #315139, COGCC remediation #5273). The site investigation was conducted by a third party contractor as authorized by Encana personnel and qualified Encana personnel. All samples were collected in accordance with Encana's Environmental Compliance Group's Sampling Procedures. The analytical results for the respective soil samples were within the COGCC Table 910-1 standards and are provided in Table 1 and Attachment A of this submittal. The text below provides the details of the site investigation. For a visual description of the site please refer to Figures 1 and 2 – Site Maps.

Site Investigation

July 2, 2012 - The pit was characterized utilizing a photoionization detector (PID) field unit by a third party consultant. It should be noted that there was not any liquid associated with the pit during the time of excavation. Grab samples were collected from the pit side walls and spoils. The pit bottom was bedrock, as such, no sample was collected. There were minimal indicators of hydrocarbon impacts in accordance with field screen readings and visual observations. The grab samples were sent to an accredited analytical laboratory for analysis. Five (5) background samples were also collected from approximately six (6) inches beneath the grounds surface for analysis with regards to arsenic. The analytical report indicated that the spoils sample was in exceedance of the COGCC Table 910-1 standard with regards to total petroleum hydrocarbons (TPH). The spoils were stockpiled onsite.

November 7, 2012 – The spoils stockpile was characterized utilizing a PID field unit by a qualified Encana employee. A composite sample was collected and submitted the analytical laboratory for analysis. The analysis indicated that the spoils were no longer in exceedance of the COGCC Table 910-1 standards.

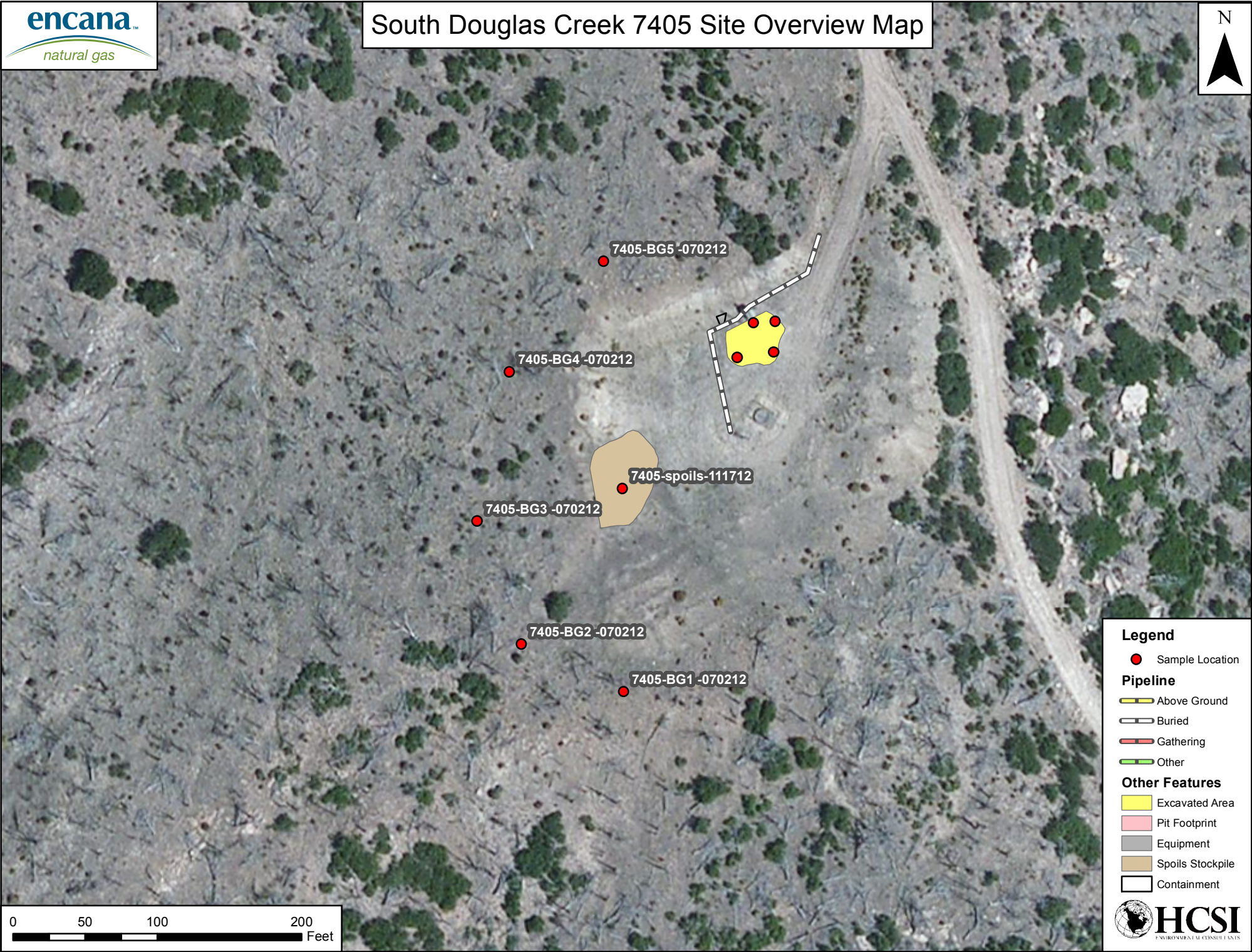
Conclusion

Based on the site investigation and analytical results, the pit associated with the Foundation Creek B #7405 is in compliance with the standards specified within COGCC Table 910-1. Encana respectfully requests that final closure be granted for the respective pit, COGCC remediation #5273.

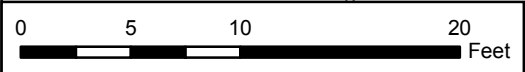
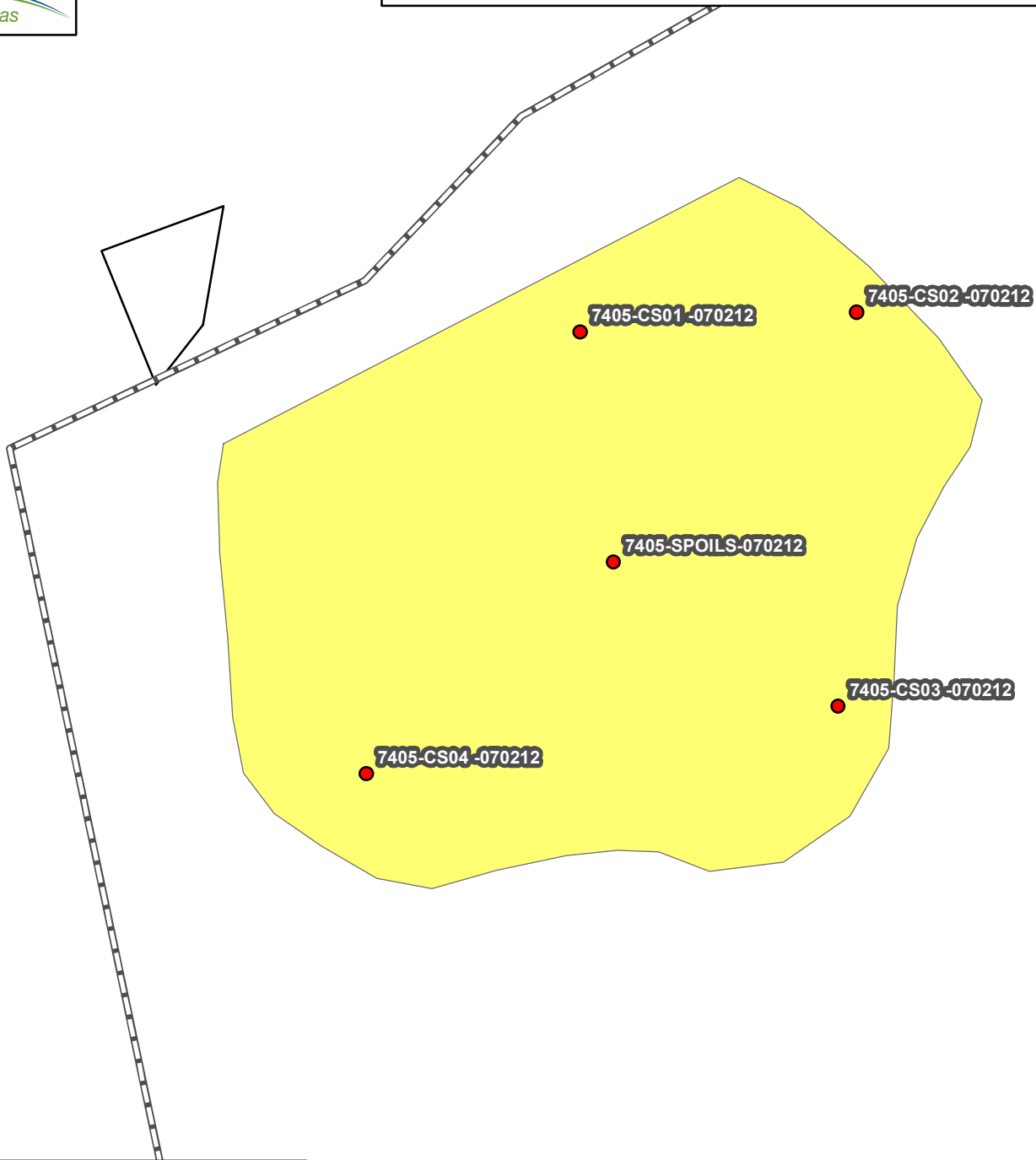
Analytical Review

Sample results indicate that the soil within the earthen pit footprint on Encana's Foundation Creek B #7405 well pad have exceedances of COGCC Table 910-1 allowable concentrations for arsenic (6.2ppm). Though the arsenic concentration in the soil is above the allowable concentration identified in Table 910-1, the concentration is within the range of arsenic background values (3.5-5.0 ppm) in this area. Based on these results and footnote 1 to COGCC Table 910-1, Encana requests that the COGCC consider the higher range of background arsenic value(s) as the allowable concentration for this constituent. Please see Attachment A for the respective laboratory analytical results.

South Douglas Creek 7405 Site Overview Map



South Douglas Creek 7405 Site Detail Map



Legend

- Sample Location

Pipeline

- Above Ground
- Buried
- Gathering
- Other

Other Features

- Excavated Area
- Pit Footprint
- Equipment
- Spoils Stockpile
- Containment

[illegible]



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Blake Ford and Kate Ramsay
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

Report Summary

Friday July 13, 2012

Report Number: L583777

Samples Received: 07/06/12

Client Project:

Description: Earthen Pit Closure Project

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Jayred Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

Blake Ford and Kate Ramsay
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

July 13, 2012

Date Received : July 06, 2012
Description : Earthen Pit Closure Project
Sample ID : 7405-SPOILS-070212 3FT
Collected By : KHR
Collection Date : 07/02/12 14:00

ESC Sample # : L583777-01

Site ID : FC 7405

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------------------------------|--------|------------|----------|-------------|----------|------|
| Chromium, Hexavalent | BDL | 4.0 | mg/kg | 3060A/7196A | 07/12/12 | 2 |
| Chromium, Trivalent | 13. | 4.0 | mg/kg | Calc. | 07/09/12 | 1 |
| ORP | 130 | | mV | 2580 | 07/12/12 | 1 |
| pH | 8.1 | | su | 9045D | 07/10/12 | 1 |
| Sodium Adsorption Ratio | 15. | | | Calc. | 07/10/12 | 1 |
| Specific Conductance | 660 | | umhos/cm | 9050AMod | 07/11/12 | 1 |
| Mercury | 0.22 | 0.020 | mg/kg | 7471 | 07/10/12 | 1 |
| Arsenic | 6.2 | 1.0 | mg/kg | 6010B | 07/09/12 | 1 |
| Barium | 170 | 0.25 | mg/kg | 6010B | 07/09/12 | 1 |
| Cadmium | BDL | 0.25 | mg/kg | 6010B | 07/09/12 | 1 |
| Chromium | 13. | 0.50 | mg/kg | 6010B | 07/09/12 | 1 |
| Copper | 32. | 1.0 | mg/kg | 6010B | 07/09/12 | 1 |
| Lead | 20. | 0.25 | mg/kg | 6010B | 07/09/12 | 1 |
| Nickel | 13. | 1.0 | mg/kg | 6010B | 07/09/12 | 1 |
| Selenium | BDL | 1.0 | mg/kg | 6010B | 07/11/12 | 1 |
| Silver | BDL | 0.50 | mg/kg | 6010B | 07/09/12 | 1 |
| Zinc | 83. | 1.5 | mg/kg | 6010B | 07/09/12 | 1 |
| Benzene | 8.8 | 0.50 | mg/kg | 8021/8015 | 07/07/12 | 1000 |
| Toluene | BDL | 5.0 | mg/kg | 8021/8015 | 07/07/12 | 1000 |
| Ethylbenzene | 2.2 | 0.50 | mg/kg | 8021/8015 | 07/07/12 | 1000 |
| Total Xylene | 22. | 1.5 | mg/kg | 8021/8015 | 07/07/12 | 1000 |
| TPH (GC/FID) Low Fraction | 2600 | 100 | mg/kg | GRO | 07/07/12 | 1000 |
| Surrogate Recovery-% | | | | | | |
| a,a,a-Trifluorotoluene(FID) | 99.1 | | % Rec. | 8021/8015 | 07/07/12 | 1000 |
| a,a,a-Trifluorotoluene(PID) | 113. | | % Rec. | 8021/8015 | 07/07/12 | 1000 |
| TPH (GC/FID) High Fraction | 320 | 4.0 | mg/kg | 3546/DRO | 07/12/12 | 1 |
| Surrogate recovery(%) | | | | | | |
| o-Terphenyl | 58.2 | | % Rec. | 3546/DRO | 07/12/12 | 1 |
| Polynuclear Aromatic Hydrocarbons | | | | | | |
| Anthracene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/10/12 | 1 |
| Acenaphthene | 0.0088 | 0.0060 | mg/kg | 8270C-SIM | 07/10/12 | 1 |
| Acenaphthylene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/10/12 | 1 |
| Benzo(a)anthracene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/10/12 | 1 |
| Benzo(a)pyrene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/10/12 | 1 |

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L583777-01 (CR6) - diluted due to sample color interference
L583777-01 (PH) - 8.1@18.9c



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1125 Escalante Drive
Rangely, CO 81648-3600

July 13, 2012

Date Received : July 06, 2012
Description : Earthen Pit Closure Project
Sample ID : 7405-SPOILS-070212 3FT
Collected By : KHR
Collection Date : 07/02/12 14:00

ESC Sample # : L583777-01

Site ID : FC 7405

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|------------------------|--------|------------|--------|-----------|----------|------|
| Benzo(b)fluoranthene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/10/12 | 1 |
| Benzo(g,h,i)perylene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/10/12 | 1 |
| Benzo(k)fluoranthene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/10/12 | 1 |
| Chrysene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/10/12 | 1 |
| Dibenz(a,h)anthracene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/10/12 | 1 |
| Fluoranthene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/10/12 | 1 |
| Fluorene | 0.013 | 0.0060 | mg/kg | 8270C-SIM | 07/10/12 | 1 |
| Indeno(1,2,3-cd)pyrene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/10/12 | 1 |
| Naphthalene | 0.58 | 0.12 | mg/kg | 8270C-SIM | 07/11/12 | 20 |
| Phenanthrene | 0.0070 | 0.0060 | mg/kg | 8270C-SIM | 07/10/12 | 1 |
| Pyrene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/10/12 | 1 |
| 1-Methylnaphthalene | 0.47 | 0.12 | mg/kg | 8270C-SIM | 07/11/12 | 20 |
| 2-Methylnaphthalene | 0.76 | 0.12 | mg/kg | 8270C-SIM | 07/11/12 | 20 |
| 2-Chloronaphthalene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/10/12 | 1 |
| Surrogate Recovery | | | | | | |
| Nitrobenzene-d5 | 1530 | | % Rec. | 8270C-SIM | 07/11/12 | 20 |
| 2-Fluorobiphenyl | 88.5 | | % Rec. | 8270C-SIM | 07/10/12 | 1 |
| p-Terphenyl-d14 | 69.1 | | % Rec. | 8270C-SIM | 07/10/12 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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L583777-01 (CR6) - diluted due to sample color interference

L583777-01 (PH) - 8.1@18.9c



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REPORT OF ANALYSIS

Blake Ford and Kate Ramsay
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

July 13, 2012

Date Received : July 06, 2012
Description : Earthen Pit Closure Project
Sample ID : 7405-CS01-070212 4FT
Collected By : KHR
Collection Date : 07/02/12 14:30

ESC Sample # : L583777-02

Site ID : FC 7405

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------------------------|--------|------------|--------|-----------|----------|------|
| Benzene | BDL | 0.0025 | mg/kg | 8021/8015 | 07/08/12 | 5 |
| Toluene | BDL | 0.025 | mg/kg | 8021/8015 | 07/08/12 | 5 |
| Ethylbenzene | BDL | 0.0025 | mg/kg | 8021/8015 | 07/08/12 | 5 |
| Total Xylene | BDL | 0.0075 | mg/kg | 8021/8015 | 07/08/12 | 5 |
| TPH (GC/FID) Low Fraction | BDL | 0.50 | mg/kg | GRO | 07/08/12 | 5 |
| Surrogate Recovery-% | | | | | | |
| a,a,a-Trifluorotoluene(FID) | 105. | | % Rec. | 8021/8015 | 07/08/12 | 5 |
| a,a,a-Trifluorotoluene(PID) | 109. | | % Rec. | 8021/8015 | 07/08/12 | 5 |
| TPH (GC/FID) High Fraction | 11. | 4.0 | mg/kg | 3546/DRO | 07/12/12 | 1 |
| Surrogate recovery(%) | | | | | | |
| o-Terphenyl | 78.5 | | % Rec. | 3546/DRO | 07/12/12 | 1 |

BDL - Below Detection Limit

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EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

July 13, 2012

Date Received : July 06, 2012
Description : Earthen Pit Closure Project
Sample ID : 7405-CS02-070212 3.5FT
Collected By : KHR
Collection Date : 07/02/12 15:00

ESC Sample # : L583777-03

Site ID : FC 7405

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------------------------|--------|------------|--------|-----------|----------|------|
| Benzene | BDL | 0.0025 | mg/kg | 8021/8015 | 07/08/12 | 5 |
| Toluene | BDL | 0.025 | mg/kg | 8021/8015 | 07/08/12 | 5 |
| Ethylbenzene | BDL | 0.0025 | mg/kg | 8021/8015 | 07/08/12 | 5 |
| Total Xylene | BDL | 0.0075 | mg/kg | 8021/8015 | 07/08/12 | 5 |
| TPH (GC/FID) Low Fraction | BDL | 0.50 | mg/kg | GRO | 07/08/12 | 5 |
| Surrogate Recovery-% | | | | | | |
| a,a,a-Trifluorotoluene(FID) | 89.5 | | % Rec. | 8021/8015 | 07/08/12 | 5 |
| a,a,a-Trifluorotoluene(PID) | 94.0 | | % Rec. | 8021/8015 | 07/08/12 | 5 |
| TPH (GC/FID) High Fraction | 5.6 | 4.0 | mg/kg | 3546/DRO | 07/12/12 | 1 |
| Surrogate recovery(%) | | | | | | |
| o-Terphenyl | 74.5 | | % Rec. | 3546/DRO | 07/12/12 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Blake Ford and Kate Ramsay
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

July 13, 2012

Date Received : July 06, 2012
Description : Earthen Pit Closure Project
Sample ID : 7405-CS03-070212 3FT
Collected By : KHR
Collection Date : 07/02/12 15:30

ESC Sample # : L583777-04

Site ID : FC 7405

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------------------------|--------|------------|--------|-----------|----------|------|
| Benzene | BDL | 0.0025 | mg/kg | 8021/8015 | 07/09/12 | 5 |
| Toluene | BDL | 0.025 | mg/kg | 8021/8015 | 07/09/12 | 5 |
| Ethylbenzene | BDL | 0.0025 | mg/kg | 8021/8015 | 07/09/12 | 5 |
| Total Xylene | BDL | 0.0075 | mg/kg | 8021/8015 | 07/09/12 | 5 |
| TPH (GC/FID) Low Fraction | BDL | 0.50 | mg/kg | GRO | 07/09/12 | 5 |
| Surrogate Recovery-% | | | | | | |
| a,a,a-Trifluorotoluene(FID) | 89.8 | | % Rec. | 8021/8015 | 07/09/12 | 5 |
| a,a,a-Trifluorotoluene(PID) | 94.8 | | % Rec. | 8021/8015 | 07/09/12 | 5 |
| TPH (GC/FID) High Fraction | BDL | 4.0 | mg/kg | 3546/DRO | 07/12/12 | 1 |
| Surrogate recovery(%) | | | | | | |
| o-Terphenyl | 73.2 | | % Rec. | 3546/DRO | 07/12/12 | 1 |

BDL - Below Detection Limit

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REPORT OF ANALYSIS

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EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

July 13, 2012

Date Received : July 06, 2012
Description : Earthen Pit Closure Project
Sample ID : 7405-CS04-070212 3FT
Collected By : KHR
Collection Date : 07/02/12 16:00

ESC Sample # : L583777-05

Site ID : FC 7405

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------------------------|--------|------------|--------|-----------|----------|------|
| Benzene | BDL | 0.0025 | mg/kg | 8021/8015 | 07/09/12 | 5 |
| Toluene | BDL | 0.025 | mg/kg | 8021/8015 | 07/09/12 | 5 |
| Ethylbenzene | BDL | 0.0025 | mg/kg | 8021/8015 | 07/09/12 | 5 |
| Total Xylene | BDL | 0.0075 | mg/kg | 8021/8015 | 07/09/12 | 5 |
| TPH (GC/FID) Low Fraction | BDL | 0.50 | mg/kg | GRO | 07/09/12 | 5 |
| Surrogate Recovery-% | | | | | | |
| a,a,a-Trifluorotoluene(FID) | 89.7 | | % Rec. | 8021/8015 | 07/09/12 | 5 |
| a,a,a-Trifluorotoluene(PID) | 94.6 | | % Rec. | 8021/8015 | 07/09/12 | 5 |
| TPH (GC/FID) High Fraction | 5.1 | 4.0 | mg/kg | 3546/DRO | 07/12/12 | 1 |
| Surrogate recovery(%) | | | | | | |
| o-Terphenyl | 70.7 | | % Rec. | 3546/DRO | 07/12/12 | 1 |

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EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

July 13, 2012

Date Received : July 06, 2012
Description : Earthen Pit Closure Project
Sample ID : 7405-BG01-070212 6IN
Collected By : KHR
Collection Date : 07/02/12 13:00

ESC Sample # : L583777-06

Site ID : FC 7405

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------|--------|------------|-------|--------|----------|------|
| Arsenic | 4.5 | 1.0 | mg/kg | 6010B | 07/10/12 | 1 |

BDL - Below Detection Limit

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EnCana Oil & Gas - Rangely, CO
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Rangely, CO 81648-3600

July 13, 2012

Date Received : July 06, 2012
Description : Earthen Pit Closure Project
Sample ID : 7405-BG02-070212 6IN
Collected By : KHR
Collection Date : 07/02/12 13:15

ESC Sample # : L583777-07

Site ID : FC 7405

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------|--------|------------|-------|--------|----------|------|
| Arsenic | 3.8 | 1.0 | mg/kg | 6010B | 07/10/12 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

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EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

July 13, 2012

Date Received : July 06, 2012
Description : Earthen Pit Closure Project
Sample ID : 7405-BG03-070212 6IN
Collected By : KHR
Collection Date : 07/02/12 13:20

ESC Sample # : L583777-08

Site ID : FC 7405

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------|--------|------------|-------|--------|----------|------|
| Arsenic | 3.5 | 1.0 | mg/kg | 6010B | 07/10/12 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Rangely, CO 81648-3600

July 13, 2012

Date Received : July 06, 2012
Description : Earthen Pit Closure Project
Sample ID : 7405-BG04-070212 6IN
Collected By : KHR
Collection Date : 07/02/12 13:25

ESC Sample # : L583777-09

Site ID : FC 7405

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------|--------|------------|-------|--------|----------|------|
| Arsenic | 4.2 | 1.0 | mg/kg | 6010B | 07/10/12 | 1 |

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Date Received : July 06, 2012
Description : Earthen Pit Closure Project
Sample ID : 7405-BG05-070212 6IN
Collected By : KHR
Collection Date : 07/02/12 13:30

ESC Sample # : L583777-10

Site ID : FC 7405

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------|--------|------------|-------|--------|----------|------|
| Arsenic | 5.0 | 1.0 | mg/kg | 6010B | 07/10/12 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

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Reported: 07/13/12 16:29 Printed: 07/13/12 16:29

Attachment A
List of Analytes with QC Qualifiers

| Sample Number | Work Group | Sample Type | Analyte | Run ID | Qualifier |
|------------------|---------------|----------------|---------------------------|-----------|-----------|
| L583777-01 | WG601523 | SAMP | Nitrobenzene-d5 | R2247993 | J7 |
| | WG601562 | SAMP | pH | R2247573 | T8 |
| | WG601761 | SAMP | Chromium, Hexavalent | R2252653 | O |
| L583777-03 | WG601588 | SAMP | TPH (GC/FID) Low Fraction | R2245154 | J6J3 |

Attachment B
Explanation of QC Qualifier Codes

| Qualifier | Meaning |
|-----------|--|
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low |
| J7 | Surrogate recovery cannot be used for control limit evaluation due to dilution. |
| O | (ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution. |
| T8 | (ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration. |

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
07/13/12 at 16:29:56

TSR Signing Reports: 358
R5 - Desired TAT

Log all projects under the project codes with the project managers last name unless multiple project managers are listed.

Sample: L583777-01 Account: ENCANRCO Received: 07/06/12 09:00 Due Date: 07/13/12 00:00 RPT Date: 07/13/12 16:29
Sample: L583777-02 Account: ENCANRCO Received: 07/06/12 09:00 Due Date: 07/13/12 00:00 RPT Date: 07/13/12 16:29
Sample: L583777-03 Account: ENCANRCO Received: 07/06/12 09:00 Due Date: 07/13/12 00:00 RPT Date: 07/13/12 16:29
Sample: L583777-04 Account: ENCANRCO Received: 07/06/12 09:00 Due Date: 07/13/12 00:00 RPT Date: 07/13/12 16:29
Sample: L583777-05 Account: ENCANRCO Received: 07/06/12 09:00 Due Date: 07/13/12 00:00 RPT Date: 07/13/12 16:29
Sample: L583777-06 Account: ENCANRCO Received: 07/06/12 09:00 Due Date: 07/13/12 00:00 RPT Date: 07/13/12 16:29
Sample: L583777-07 Account: ENCANRCO Received: 07/06/12 09:00 Due Date: 07/13/12 00:00 RPT Date: 07/13/12 16:29
Sample: L583777-08 Account: ENCANRCO Received: 07/06/12 09:00 Due Date: 07/13/12 00:00 RPT Date: 07/13/12 16:29
Sample: L583777-09 Account: ENCANRCO Received: 07/06/12 09:00 Due Date: 07/13/12 00:00 RPT Date: 07/13/12 16:29
Sample: L583777-10 Account: ENCANRCO Received: 07/06/12 09:00 Due Date: 07/13/12 00:00 RPT Date: 07/13/12 16:29



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L583777

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1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

July 13, 2012

| Analyte | Result | Laboratory Blank | | Limit | Batch | Date Analyzed |
|-----------------------------|---------|------------------|-------|--------|----------|----------------|
| | | Units | % Rec | | | |
| Benzene | < .0005 | mg/kg | | | WG601487 | 07/07/12 02:11 |
| Ethylbenzene | < .0005 | mg/kg | | | WG601487 | 07/07/12 02:11 |
| Toluene | < .005 | mg/kg | | | WG601487 | 07/07/12 02:11 |
| TPH (GC/FID) Low Fraction | < .1 | mg/kg | | | WG601487 | 07/07/12 02:11 |
| Total Xylene | < .0015 | mg/kg | | | WG601487 | 07/07/12 02:11 |
| a,a,a-Trifluorotoluene(FID) | | % Rec. | 105.7 | 59-128 | WG601487 | 07/07/12 02:11 |
| a,a,a-Trifluorotoluene(PID) | | % Rec. | 110.2 | 54-144 | WG601487 | 07/07/12 02:11 |
| Benzene | < .0005 | mg/kg | | | WG601597 | 07/08/12 18:30 |
| Ethylbenzene | < .0005 | mg/kg | | | WG601597 | 07/08/12 18:30 |
| Toluene | < .005 | mg/kg | | | WG601597 | 07/08/12 18:30 |
| TPH (GC/FID) Low Fraction | < .1 | mg/kg | | | WG601597 | 07/08/12 18:30 |
| Total Xylene | < .0015 | mg/kg | | | WG601597 | 07/08/12 18:30 |
| a,a,a-Trifluorotoluene(FID) | | % Rec. | 106.2 | 59-128 | WG601597 | 07/08/12 18:30 |
| a,a,a-Trifluorotoluene(PID) | | % Rec. | 110.9 | 54-144 | WG601597 | 07/08/12 18:30 |
| Benzene | < .0005 | mg/kg | | | WG601588 | 07/08/12 22:28 |
| Ethylbenzene | < .0005 | mg/kg | | | WG601588 | 07/08/12 22:28 |
| Toluene | < .005 | mg/kg | | | WG601588 | 07/08/12 22:28 |
| TPH (GC/FID) Low Fraction | < .1 | mg/kg | | | WG601588 | 07/08/12 22:28 |
| Total Xylene | < .0015 | mg/kg | | | WG601588 | 07/08/12 22:28 |
| a,a,a-Trifluorotoluene(FID) | | % Rec. | 90.11 | 59-128 | WG601588 | 07/08/12 22:28 |
| a,a,a-Trifluorotoluene(PID) | | % Rec. | 95.42 | 54-144 | WG601588 | 07/08/12 22:28 |
| Arsenic | < 1 | mg/kg | | | WG601617 | 07/09/12 18:50 |
| Barium | < .25 | mg/kg | | | WG601617 | 07/09/12 18:50 |
| Cadmium | < .25 | mg/kg | | | WG601617 | 07/09/12 18:50 |
| Chromium | < .5 | mg/kg | | | WG601617 | 07/09/12 18:50 |
| Copper | < 1 | mg/kg | | | WG601617 | 07/09/12 18:50 |
| Lead | < .25 | mg/kg | | | WG601617 | 07/09/12 18:50 |
| Nickel | < 1 | mg/kg | | | WG601617 | 07/09/12 18:50 |
| Silver | < .5 | mg/kg | | | WG601617 | 07/09/12 18:50 |
| Zinc | < 1.5 | mg/kg | | | WG601617 | 07/09/12 18:50 |
| pH | 4.45 | su | | | WG601562 | 07/10/12 09:45 |
| 1-Methylnaphthalene | < .006 | mg/kg | | | WG601523 | 07/10/12 14:05 |
| 2-Chloronaphthalene | < .006 | mg/kg | | | WG601523 | 07/10/12 14:05 |
| 2-Methylnaphthalene | < .006 | mg/kg | | | WG601523 | 07/10/12 14:05 |
| Acenaphthene | < .006 | mg/kg | | | WG601523 | 07/10/12 14:05 |
| Acenaphthylene | < .006 | mg/kg | | | WG601523 | 07/10/12 14:05 |
| Anthracene | < .006 | mg/kg | | | WG601523 | 07/10/12 14:05 |
| Benzo(a)anthracene | < .006 | mg/kg | | | WG601523 | 07/10/12 14:05 |
| Benzo(a)pyrene | < .006 | mg/kg | | | WG601523 | 07/10/12 14:05 |
| Benzo(b)fluoranthene | < .006 | mg/kg | | | WG601523 | 07/10/12 14:05 |
| Benzo(g,h,i)perylene | < .006 | mg/kg | | | WG601523 | 07/10/12 14:05 |
| Benzo(k)fluoranthene | < .006 | mg/kg | | | WG601523 | 07/10/12 14:05 |
| Chrysene | < .006 | mg/kg | | | WG601523 | 07/10/12 14:05 |
| Dibenz(a,h)anthracene | < .006 | mg/kg | | | WG601523 | 07/10/12 14:05 |
| Fluoranthene | < .006 | mg/kg | | | WG601523 | 07/10/12 14:05 |
| Fluorene | < .006 | mg/kg | | | WG601523 | 07/10/12 14:05 |
| Indeno(1,2,3-cd)pyrene | < .006 | mg/kg | | | WG601523 | 07/10/12 14:05 |
| Naphthalene | < .006 | mg/kg | | | WG601523 | 07/10/12 14:05 |
| Phenanthrene | < .006 | mg/kg | | | WG601523 | 07/10/12 14:05 |

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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Tax I.D. 62-0814289

Est. 1970

July 13, 2012

| Analyte | Result | Laboratory Blank | | Limit | Batch | Date Analyzed |
|----------------------------|--------|------------------|-------|--------|----------|----------------|
| | | Units | % Rec | | | |
| Pyrene | < .006 | mg/kg | | | WG601523 | 07/10/12 14:05 |
| 2-Fluorobiphenyl | | % Rec. | 68.49 | 34-129 | WG601523 | 07/10/12 14:05 |
| Nitrobenzene-d5 | | % Rec. | 58.86 | 14-141 | WG601523 | 07/10/12 14:05 |
| p-Terphenyl-d14 | | % Rec. | 80.57 | 25-139 | WG601523 | 07/10/12 14:05 |
| Arsenic | < 1 | mg/kg | | | WG601750 | 07/10/12 18:48 |
| Mercury | < .02 | mg/kg | | | WG601512 | 07/10/12 14:46 |
| Selenium | < 1 | mg/kg | | | WG601617 | 07/11/12 11:35 |
| Specific Conductance | 1.42 | umhos/cm | | | WG602109 | 07/11/12 19:00 |
| TPH (GC/FID) High Fraction | < 4 | ppm | | | WG601689 | 07/12/12 04:05 |
| o-Terphenyl | | % Rec. | 96.28 | 50-150 | WG601689 | 07/12/12 04:05 |
| Chromium, Hexavalent | < 2 | mg/kg | | | WG601761 | 07/12/12 12:12 |

| Analyte | Units | Result | Duplicate | | RPD | Limit | Ref Samp | Batch |
|----------------------|----------|--------|-----------|--|-------|-------|------------|----------|
| | | | Duplicate | | | | | |
| Arsenic | mg/kg | 4.40 | 4.40 | | 0.913 | 20 | L583667-08 | WG601617 |
| Barium | mg/kg | 1600 | 1500 | | 3.92 | 20 | L583667-08 | WG601617 |
| Cadmium | mg/kg | 0 | 0 | | 0 | 20 | L583667-08 | WG601617 |
| Chromium | mg/kg | 24.0 | 23.0 | | 3.42 | 20 | L583667-08 | WG601617 |
| Copper | mg/kg | 8.80 | 8.91 | | 0.676 | 20 | L583667-08 | WG601617 |
| Lead | mg/kg | 6.70 | 7.20 | | 6.90 | 20 | L583667-08 | WG601617 |
| Nickel | mg/kg | 12.0 | 10.9 | | 5.36 | 20 | L583667-08 | WG601617 |
| Silver | mg/kg | 0 | 0 | | 0 | 20 | L583667-08 | WG601617 |
| Zinc | mg/kg | 32.0 | 33.1 | | 4.64 | 20 | L583667-08 | WG601617 |
| pH | su | 8.30 | 8.30 | | 0.241 | 1 | L583649-06 | WG601562 |
| pH | su | 12.0 | 13.0 | | 3.68* | 1 | L583829-03 | WG601562 |
| Arsenic | mg/kg | 4.60 | 5.00 | | 7.25 | 20 | L583777-10 | WG601750 |
| Mercury | mg/kg | 0 | 0 | | 0 | 20 | L583783-01 | WG601512 |
| Selenium | mg/kg | 0 | 0 | | 0 | 20 | L583667-08 | WG601617 |
| Specific Conductance | umhos/cm | 990. | 880. | | 11.5 | 20 | L583652-34 | WG602109 |
| Specific Conductance | umhos/cm | 2400 | 2500 | | 4.50 | 20 | L583946-02 | WG602109 |
| Chromium, Hexavalent | mg/kg | 0 | 0 | | 0 | 20 | L583835-03 | WG601761 |
| ORP | mV | 160. | 170. | | 4.20 | 20 | L583649-06 | WG601963 |

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Est. 1970

July 13, 2012

| Analyte | Units | Duplicate | | RPD | Limit | Ref Samp | Batch |
|---------|-------|-----------|-----------|------|-------|------------|----------|
| | | Result | Duplicate | | | | |
| ORP | mV | 250. | 240. | 3.68 | 20 | L584053-03 | WG601963 |

| Analyte | Units | Laboratory Control Sample | | % Rec | Limit | Batch |
|-----------------------------|-------|---------------------------|--------|-------|----------|----------|
| | | Known Val | Result | | | |
| Benzene | mg/kg | .05 | 0.0442 | 88.5 | 76-113 | WG601487 |
| Ethylbenzene | mg/kg | .05 | 0.0463 | 92.5 | 78-115 | WG601487 |
| Toluene | mg/kg | .05 | 0.0461 | 92.2 | 76-114 | WG601487 |
| Total Xylene | mg/kg | .15 | 0.140 | 93.3 | 81-118 | WG601487 |
| a,a,a-Trifluorotoluene(PID) | | | | 109.0 | 54-144 | WG601487 |
| TPH (GC/FID) Low Fraction | mg/kg | 5.5 | 6.33 | 115. | 67-135 | WG601487 |
| a,a,a-Trifluorotoluene(FID) | | | | 110.3 | 59-128 | WG601487 |
| Benzene | mg/kg | .05 | 0.0460 | 92.1 | 76-113 | WG601597 |
| Ethylbenzene | mg/kg | .05 | 0.0487 | 97.3 | 78-115 | WG601597 |
| Toluene | mg/kg | .05 | 0.0478 | 95.6 | 76-114 | WG601597 |
| Total Xylene | mg/kg | .15 | 0.147 | 98.1 | 81-118 | WG601597 |
| a,a,a-Trifluorotoluene(PID) | | | | 109.9 | 54-144 | WG601597 |
| TPH (GC/FID) Low Fraction | mg/kg | 5.5 | 6.19 | 113. | 67-135 | WG601597 |
| a,a,a-Trifluorotoluene(FID) | | | | 111.2 | 59-128 | WG601597 |
| TPH (GC/FID) Low Fraction | mg/kg | 5.5 | 6.16 | 112. | 67-135 | WG601588 |
| a,a,a-Trifluorotoluene(FID) | | | | 94.89 | 59-128 | WG601588 |
| Benzene | mg/kg | .05 | 0.0482 | 96.3 | 76-113 | WG601588 |
| Ethylbenzene | mg/kg | .05 | 0.0478 | 95.6 | 78-115 | WG601588 |
| Toluene | mg/kg | .05 | 0.0474 | 94.9 | 76-114 | WG601588 |
| Total Xylene | mg/kg | .15 | 0.140 | 93.3 | 81-118 | WG601588 |
| a,a,a-Trifluorotoluene(PID) | | | | 94.82 | 54-144 | WG601588 |
| Arsenic | mg/kg | 237 | 244. | 103. | 83.1-117 | WG601617 |
| Barium | mg/kg | 252 | 268. | 106. | 84.1-116 | WG601617 |
| Cadmium | mg/kg | 191 | 190. | 99.5 | 83.2-117 | WG601617 |
| Chromium | mg/kg | 128 | 133. | 104. | 81.3-118 | WG601617 |
| Copper | mg/kg | 123 | 127. | 103. | 83.7-116 | WG601617 |
| Lead | mg/kg | 103 | 105. | 102. | 83.1-117 | WG601617 |
| Nickel | mg/kg | 118 | 115. | 97.5 | 82-118 | WG601617 |
| Silver | mg/kg | 47.3 | 48.6 | 103. | 66.2-134 | WG601617 |
| Zinc | mg/kg | 183 | 186. | 102. | 82-118 | WG601617 |
| pH | su | 5.7 | 5.76 | 101.* | 98-101 | WG601562 |
| 1-Methylnaphthalene | mg/kg | .033 | 0.0248 | 75.2 | 48-113 | WG601523 |
| 2-Chloronaphthalene | mg/kg | .033 | 0.0250 | 75.9 | 51-114 | WG601523 |
| 2-Methylnaphthalene | mg/kg | .033 | 0.0244 | 73.9 | 44-109 | WG601523 |
| Acenaphthene | mg/kg | .033 | 0.0252 | 76.4 | 52-108 | WG601523 |
| Acenaphthylene | mg/kg | .033 | 0.0259 | 78.5 | 51-110 | WG601523 |
| Anthracene | mg/kg | .033 | 0.0269 | 81.4 | 58-120 | WG601523 |
| Benzo(a)anthracene | mg/kg | .033 | 0.0303 | 91.8 | 54-110 | WG601523 |
| Benzo(a)pyrene | mg/kg | .033 | 0.0278 | 84.4 | 56-118 | WG601523 |
| Benzo(b)fluoranthene | mg/kg | .033 | 0.0283 | 85.9 | 55-114 | WG601523 |
| Benzo(g,h,i)perylene | mg/kg | .033 | 0.0283 | 85.7 | 48-130 | WG601523 |
| Benzo(k)fluoranthene | mg/kg | .033 | 0.0282 | 85.4 | 55-122 | WG601523 |
| Chrysene | mg/kg | .033 | 0.0277 | 83.9 | 57-118 | WG601523 |
| Dibenz(a,h)anthracene | mg/kg | .033 | 0.0282 | 85.3 | 53-122 | WG601523 |

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Est. 1970

July 13, 2012

| Analyte | Units | Laboratory Control | Sample | % Rec | Limit | Batch |
|----------------------------|----------|--------------------|--------|-------|-----------|----------|
| | | Known Val | Result | | | |
| Fluoranthene | mg/kg | .033 | 0.0270 | 81.9 | 58-118 | WG601523 |
| Fluorene | mg/kg | .033 | 0.0255 | 77.2 | 54-109 | WG601523 |
| Indeno(1,2,3-cd)pyrene | mg/kg | .033 | 0.0278 | 84.3 | 51-125 | WG601523 |
| Naphthalene | mg/kg | .033 | 0.0238 | 72.2 | 45-105 | WG601523 |
| Phenanthrene | mg/kg | .033 | 0.0268 | 81.3 | 53-114 | WG601523 |
| Pyrene | mg/kg | .033 | 0.0298 | 90.4 | 53-121 | WG601523 |
| 2-Fluorobiphenyl | | | | 75.14 | 34-129 | WG601523 |
| Nitrobenzene-d5 | | | | 67.32 | 14-141 | WG601523 |
| p-Terphenyl-d14 | | | | 85.91 | 25-139 | WG601523 |
| Arsenic | mg/kg | 237 | 231. | 97.5 | 83.1-117 | WG601750 |
| Mercury | mg/kg | 12.4 | 15.8 | 127. | 71.6-128 | WG601512 |
| Selenium | mg/kg | 110 | 110. | 100. | 78.7-122 | WG601617 |
| Specific Conductance | umhos/cm | 495 | 506. | 102. | 85-115 | WG602109 |
| TPH (GC/FID) High Fraction | ppm | 60 | 53.8 | 89.7 | 50-150 | WG601689 |
| o-Terphenyl | | | | 95.99 | 50-150 | WG601689 |
| Chromium, Hexavalent | mg/kg | 150 | 143. | 95.3 | 50-150 | WG601761 |
| ORP | mV | 228 | 225. | 98.7 | 95.6-104. | WG601963 |

| Analyte | Units | Laboratory Control | | Sample Duplicate | Limit | RPD | Limit | Batch |
|-----------------------------|-------|--------------------|--------|------------------|--------|--------|-------|----------|
| | | Result | Ref | %Rec | | | | |
| Benzene | mg/kg | 0.0449 | 0.0442 | 90.0 | 76-113 | 1.46 | 20 | WG601487 |
| Ethylbenzene | mg/kg | 0.0467 | 0.0463 | 93.0 | 78-115 | 0.980 | 20 | WG601487 |
| Toluene | mg/kg | 0.0462 | 0.0461 | 92.0 | 76-114 | 0.350 | 20 | WG601487 |
| Total Xylene | mg/kg | 0.141 | 0.140 | 94.0 | 81-118 | 1.03 | 20 | WG601487 |
| a,a,a-Trifluorotoluene(PID) | | | | 109.4 | 54-144 | | | WG601487 |
| TPH (GC/FID) Low Fraction | mg/kg | 6.36 | 6.33 | 116. | 67-135 | 0.560 | 20 | WG601487 |
| a,a,a-Trifluorotoluene(FID) | | | | 110.6 | 59-128 | | | WG601487 |
| Benzene | mg/kg | 0.0428 | 0.0460 | 86.0 | 76-113 | 7.30 | 20 | WG601597 |
| Ethylbenzene | mg/kg | 0.0457 | 0.0487 | 91.0 | 78-115 | 6.22 | 20 | WG601597 |
| Toluene | mg/kg | 0.0450 | 0.0478 | 90.0 | 76-114 | 6.01 | 20 | WG601597 |
| Total Xylene | mg/kg | 0.138 | 0.147 | 92.0 | 81-118 | 6.08 | 20 | WG601597 |
| a,a,a-Trifluorotoluene(FID) | | | | 106.3 | 59-128 | | | WG601597 |
| a,a,a-Trifluorotoluene(PID) | | | | 109.9 | 54-144 | | | WG601597 |
| TPH (GC/FID) Low Fraction | mg/kg | 6.19 | 6.19 | 112. | 67-135 | 0.0900 | 20 | WG601597 |
| a,a,a-Trifluorotoluene(FID) | | | | 110.8 | 59-128 | | | WG601597 |
| TPH (GC/FID) Low Fraction | mg/kg | 5.90 | 6.16 | 107. | 67-135 | 4.29 | 20 | WG601588 |
| a,a,a-Trifluorotoluene(FID) | | | | 94.66 | 59-128 | | | WG601588 |
| Benzene | mg/kg | 0.0473 | 0.0482 | 94.0 | 76-113 | 1.86 | 20 | WG601588 |
| Ethylbenzene | mg/kg | 0.0470 | 0.0478 | 94.0 | 78-115 | 1.62 | 20 | WG601588 |
| Toluene | mg/kg | 0.0465 | 0.0474 | 93.0 | 76-114 | 2.03 | 20 | WG601588 |

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

EnCana Oil & Gas - Rangely, CO
Blake Ford and Kate Ramsay
1125 Escalante Drive

Rangely, CO 81648-3600

Quality Assurance Report
Level II

L583777

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

July 13, 2012

| Analyte | Units | Laboratory Control | | Sample Duplicate | | Limit | RPD | Limit | Batch |
|-----------------------------|--------|--------------------|--------|------------------|--|-----------|--------|-------|----------|
| | | Result | Ref | %Rec | | | | | |
| Total Xylene | mg/kg | 0.138 | 0.140 | 92.0 | | 81-118 | 1.68 | 20 | WG601588 |
| a,a,a-Trifluorotoluene(PID) | | | | 94.97 | | 54-144 | | | WG601588 |
| pH | su | 5.76 | 5.76 | 101. | | 98-101 | 0 | 20 | WG601562 |
| 1-Methylnaphthalene | mg/kg | 0.0240 | 0.0248 | 73.0 | | 48-113 | 3.20 | 24 | WG601523 |
| 2-Chloronaphthalene | mg/kg | 0.0251 | 0.0250 | 76.0 | | 51-114 | 0.0565 | 24 | WG601523 |
| 2-Methylnaphthalene | mg/kg | 0.0231 | 0.0244 | 70.0 | | 44-109 | 5.65 | 24 | WG601523 |
| Acenaphthene | mg/kg | 0.0257 | 0.0252 | 78.0 | | 52-108 | 1.72 | 22 | WG601523 |
| Acenaphthylene | mg/kg | 0.0251 | 0.0259 | 76.0 | | 51-110 | 3.27 | 21 | WG601523 |
| Anthracene | mg/kg | 0.0269 | 0.0269 | 81.0 | | 58-120 | 0.119 | 20 | WG601523 |
| Benzo(a)anthracene | mg/kg | 0.0309 | 0.0303 | 94.0 | | 54-110 | 1.82 | 22 | WG601523 |
| Benzo(a)pyrene | mg/kg | 0.0292 | 0.0278 | 88.0 | | 56-118 | 4.75 | 21 | WG601523 |
| Benzo(b)fluoranthene | mg/kg | 0.0303 | 0.0283 | 92.0 | | 55-114 | 6.58 | 20 | WG601523 |
| Benzo(g,h,i)perylene | mg/kg | 0.0299 | 0.0283 | 90.0 | | 48-130 | 5.58 | 20 | WG601523 |
| Benzo(k)fluoranthene | mg/kg | 0.0287 | 0.0282 | 87.0 | | 55-122 | 1.98 | 25 | WG601523 |
| Chrysene | mg/kg | 0.0287 | 0.0277 | 87.0 | | 57-118 | 3.63 | 20 | WG601523 |
| Dibenz(a,h)anthracene | mg/kg | 0.0290 | 0.0282 | 88.0 | | 53-122 | 2.82 | 20 | WG601523 |
| Fluoranthene | mg/kg | 0.0287 | 0.0270 | 87.0 | | 58-118 | 6.01 | 20 | WG601523 |
| Fluorene | mg/kg | 0.0265 | 0.0255 | 80.0 | | 54-109 | 3.98 | 20 | WG601523 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.0291 | 0.0278 | 88.0 | | 51-125 | 4.44 | 21 | WG601523 |
| Naphthalene | mg/kg | 0.0227 | 0.0238 | 69.0 | | 45-105 | 4.72 | 24 | WG601523 |
| Phenanthrene | mg/kg | 0.0284 | 0.0268 | 86.0 | | 53-114 | 5.76 | 20 | WG601523 |
| Pyrene | mg/kg | 0.0308 | 0.0298 | 93.0 | | 53-121 | 3.11 | 20 | WG601523 |
| 2-Fluorobiphenyl | | | | 73.47 | | 34-129 | | | WG601523 |
| Nitrobenzene-d5 | | | | 63.22 | | 14-141 | | | WG601523 |
| p-Terphenyl-d14 | | | | 85.16 | | 25-139 | | | WG601523 |
| Specific Conductance | umhos/ | 504. | 506. | 102. | | 85-115 | 0.396 | 20 | WG602109 |
| TPH (GC/FID) High Fraction | ppm | 56.3 | 53.8 | 94.0 | | 50-150 | 4.56 | 25 | WG601689 |
| o-Terphenyl | | | | 103.1 | | 50-150 | | | WG601689 |
| Chromium,Hexavalent | mg/kg | 133. | 143. | 89.0 | | 50-150 | 7.25 | 20 | WG601761 |
| ORP | mV | 223. | 225. | 98.0 | | 95.6-104. | 0.893 | 20 | WG601963 |

| Analyte | Units | Matrix Spike | | TV | % Rec | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------------|---------|-----|-------|--------|------------|----------|
| | | MS Res | Ref Res | | | | | |
| Benzene | mg/kg | 0.222 | 0 | .05 | 89.0 | 32-137 | L583671-01 | WG601487 |
| Ethylbenzene | mg/kg | 0.223 | 0 | .05 | 89.0 | 10-150 | L583671-01 | WG601487 |
| Toluene | mg/kg | 0.228 | 0 | .05 | 91.1 | 20-142 | L583671-01 | WG601487 |
| Total Xylene | mg/kg | 0.670 | 0 | .15 | 89.3 | 16-141 | L583671-01 | WG601487 |
| a,a,a-Trifluorotoluene(PID) | | | | | 108.7 | 54-144 | | WG601487 |
| Benzene | mg/kg | 0.201 | 0 | .05 | 80.3 | 32-137 | L583777-02 | WG601597 |
| Ethylbenzene | mg/kg | 0.211 | 0 | .05 | 84.4 | 10-150 | L583777-02 | WG601597 |
| Toluene | mg/kg | 0.212 | 0 | .05 | 84.9 | 20-142 | L583777-02 | WG601597 |
| Total Xylene | mg/kg | 0.637 | 0 | .15 | 85.0 | 16-141 | L583777-02 | WG601597 |
| a,a,a-Trifluorotoluene(PID) | | | | | 109.8 | 54-144 | | WG601597 |
| TPH (GC/FID) Low Fraction | mg/kg | 22.9 | 0 | 5.5 | 83.3 | 55-109 | L583777-02 | WG601597 |

* Performance of this Analyte is outside of established criteria.

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Tax I.D. 62-0814289

Est. 1970

July 13, 2012

| Analyte | Units | MS Res | Matrix Spike | | % Rec | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------|--------------|------|-------|--------|------------|----------|
| | | | Ref Res | TV | | | | |
| a,a,a-Trifluorotoluene(FID) | | | | | 107.8 | 59-128 | | |
| a,a,a-Trifluorotoluene(PID) | | | | | 112.1 | 54-144 | | |
| Benzene | mg/kg | 0.153 | 0 | .05 | 61.4 | 32-137 | L583777-03 | WG601588 |
| Ethylbenzene | mg/kg | 0.121 | 0 | .05 | 48.4 | 10-150 | L583777-03 | WG601588 |
| Toluene | mg/kg | 0.124 | 0 | .05 | 49.8 | 20-142 | L583777-03 | WG601588 |
| Total Xylene | mg/kg | 0.366 | 0 | .15 | 48.8 | 16-141 | L583777-03 | WG601588 |
| a,a,a-Trifluorotoluene(PID) | | | | | 93.87 | 54-144 | | WG601588 |
| TPH (GC/FID) Low Fraction | mg/kg | 15.6 | 0 | 5.5 | 56.6 | 55-109 | L583777-03 | WG601588 |
| a,a,a-Trifluorotoluene(FID) | | | | | 91.22 | 59-128 | | WG601588 |
| Arsenic | mg/kg | 50.6 | 4.40 | 50 | 92.4 | 75-125 | L583667-08 | WG601617 |
| Barium | mg/kg | 1570 | 1500 | 50 | 140.* | 75-125 | L583667-08 | WG601617 |
| Cadmium | mg/kg | 44.8 | 0 | 50 | 89.6 | 75-125 | L583667-08 | WG601617 |
| Chromium | mg/kg | 73.5 | 23.0 | 50 | 101. | 75-125 | L583667-08 | WG601617 |
| Copper | mg/kg | 56.1 | 8.91 | 50 | 94.4 | 75-125 | L583667-08 | WG601617 |
| Lead | mg/kg | 58.0 | 7.20 | 50 | 102. | 75-125 | L583667-08 | WG601617 |
| Nickel | mg/kg | 55.0 | 10.9 | 50 | 88.2 | 75-125 | L583667-08 | WG601617 |
| Silver | mg/kg | 45.8 | 0 | 50 | 91.6 | 75-125 | L583667-08 | WG601617 |
| Zinc | mg/kg | 78.5 | 33.1 | 50 | 90.8 | 75-125 | L583667-08 | WG601617 |
| TPH (GC/FID) Low Fraction | mg/kg | 25.4 | 0 | 5.5 | 92.3 | 55-109 | L583671-01 | WG601487 |
| Arsenic | mg/kg | 51.7 | 5.00 | 50 | 93.4 | 75-125 | L583777-10 | WG601750 |
| Mercury | mg/kg | 0.244 | 0 | .25 | 97.6 | 80-120 | L583783-01 | WG601512 |
| 1-Methylnaphthalene | mg/kg | 0.0382 | 0 | .033 | 116. | 25-155 | L583842-06 | WG601523 |
| 2-Chloronaphthalene | mg/kg | 0.0300 | 0 | .033 | 91.0 | 31-153 | L583842-06 | WG601523 |
| 2-Methylnaphthalene | mg/kg | 0.0391 | 0 | .033 | 118. | 22-172 | L583842-06 | WG601523 |
| Acenaphthene | mg/kg | 0.0590 | 0.00960 | .033 | 150.* | 43-133 | L583842-06 | WG601523 |
| Acenaphthylene | mg/kg | 0.0322 | 0 | .033 | 97.4 | 42-146 | L583842-06 | WG601523 |
| Anthracene | mg/kg | 0.114 | 0.0280 | .033 | 261.* | 38-153 | L583842-06 | WG601523 |
| Benzo(a)anthracene | mg/kg | 0.212 | 0.0620 | .033 | 455.* | 31-142 | L583842-06 | WG601523 |
| Benzo(a)pyrene | mg/kg | 0.182 | 0.0570 | .033 | 379.* | 26-152 | L583842-06 | WG601523 |
| Benzo(b)fluoranthene | mg/kg | 0.268 | 0.0990 | .033 | 514.* | 10-188 | L583842-06 | WG601523 |
| Benzo(g,h,i)perylene | mg/kg | 0.0481 | 0.0110 | .033 | 112. | 10-176 | L583842-06 | WG601523 |
| Benzo(k)fluoranthene | mg/kg | 0.107 | 0.0250 | .033 | 249.* | 22-163 | L583842-06 | WG601523 |
| Chrysene | mg/kg | 0.185 | 0.0630 | .033 | 371.* | 26-146 | L583842-06 | WG601523 |
| Dibenz(a,h)anthracene | mg/kg | 0.0268 | 0 | .033 | 81.2 | 10-160 | L583842-06 | WG601523 |
| Fluoranthene | mg/kg | 0.511 | 0.160 | .033 | 1060* | 23-160 | L583842-06 | WG601523 |
| Fluorene | mg/kg | 0.0633 | 0.0100 | .033 | 161.* | 44-143 | L583842-06 | WG601523 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.0536 | 0.0120 | .033 | 126. | 10-157 | L583842-06 | WG601523 |
| Naphthalene | mg/kg | 0.0377 | 0 | .033 | 114. | 22-156 | L583842-06 | WG601523 |
| Phenanthrene | mg/kg | 0.415 | 0.120 | .033 | 893.* | 23-164 | L583842-06 | WG601523 |
| Pyrene | mg/kg | 0.357 | 0.120 | .033 | 717.* | 12-170 | L583842-06 | WG601523 |
| 2-Fluorobiphenyl | | | | | 87.80 | 34-129 | | WG601523 |
| Nitrobenzene-d5 | | | | | 80.96 | 14-141 | | WG601523 |
| p-Terphenyl-d14 | | | | | 84.74 | 25-139 | | WG601523 |
| Selenium | mg/kg | 42.5 | 0 | 50 | 85.0 | 75-125 | L583667-08 | WG601617 |
| TPH (GC/FID) High Fraction | ppm | 62.3 | 0 | 60 | 104. | 50-150 | L583855-02 | WG601689 |

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Tax I.D. 62-0814289

Est. 1970

July 13, 2012

| Analyte | Units | MS Res | Matrix Spike | | % Rec | Limit | Ref Samp | Batch | |
|-----------------------------|-------|--------|------------------------|-------|--------|--------|------------|------------|----------|
| | | | Ref Res | TV | | | | | |
| o-Terphenyl | | | | | 106.5 | 50-150 | | | |
| Chromium, Hexavalent | mg/kg | 13.2 | 0 | 20 | 66.0 | 50-150 | L583835-01 | WG601761 | |
| Analyte | Units | MSD | Matrix Spike Duplicate | | Limit | RPD | Limit | Ref Samp | Batch |
| | | | Ref | %Rec | | | | | |
| Benzene | mg/kg | 0.208 | 0.222 | 83.0 | 32-137 | 6.87 | 39 | L583671-01 | WG601487 |
| Ethylbenzene | mg/kg | 0.209 | 0.223 | 83.6 | 10-150 | 6.34 | 44 | L583671-01 | WG601487 |
| Toluene | mg/kg | 0.211 | 0.228 | 84.3 | 20-142 | 7.81 | 42 | L583671-01 | WG601487 |
| Total Xylene | mg/kg | 0.626 | 0.670 | 83.4 | 16-141 | 6.79 | 46 | L583671-01 | WG601487 |
| a,a,a-Trifluorotoluene(PID) | | | | 108.8 | 54-144 | | | | WG601487 |
| Benzene | mg/kg | 0.208 | 0.201 | 83.2 | 32-137 | 3.63 | 39 | L583777-02 | WG601597 |
| Ethylbenzene | mg/kg | 0.217 | 0.211 | 86.8 | 10-150 | 2.84 | 44 | L583777-02 | WG601597 |
| Toluene | mg/kg | 0.215 | 0.212 | 85.8 | 20-142 | 1.13 | 42 | L583777-02 | WG601597 |
| Total Xylene | mg/kg | 0.656 | 0.637 | 87.4 | 16-141 | 2.81 | 46 | L583777-02 | WG601597 |
| a,a,a-Trifluorotoluene(PID) | | | | 108.8 | 54-144 | | | | WG601597 |
| TPH (GC/FID) Low Fraction | mg/kg | 26.9 | 22.9 | 97.9 | 55-109 | 16.2 | 20 | L583777-02 | WG601597 |
| a,a,a-Trifluorotoluene(FID) | | | | 109.5 | 59-128 | | | | WG601597 |
| Benzene | mg/kg | 0.155 | 0.153 | 61.9 | 32-137 | 0.790 | 39 | L583777-03 | WG601588 |
| Ethylbenzene | mg/kg | 0.114 | 0.121 | 45.7 | 10-150 | 5.85 | 44 | L583777-03 | WG601588 |
| Toluene | mg/kg | 0.123 | 0.124 | 49.0 | 20-142 | 1.53 | 42 | L583777-03 | WG601588 |
| Total Xylene | mg/kg | 0.346 | 0.366 | 46.2 | 16-141 | 5.65 | 46 | L583777-03 | WG601588 |
| a,a,a-Trifluorotoluene(PID) | | | | 94.67 | 54-144 | | | | WG601588 |
| TPH (GC/FID) Low Fraction | mg/kg | 9.96 | 15.6 | 36.2* | 55-109 | 44.0* | 20 | L583777-03 | WG601588 |
| a,a,a-Trifluorotoluene(FID) | | | | 88.88 | 59-128 | | | | WG601588 |
| Arsenic | mg/kg | 50.5 | 50.6 | 92.2 | 75-125 | 0.198 | 20 | L583667-08 | WG601617 |
| Barium | mg/kg | 1570 | 1570 | 140.* | 75-125 | 0 | 20 | L583667-08 | WG601617 |
| Cadmium | mg/kg | 44.6 | 44.8 | 89.2 | 75-125 | 0.447 | 20 | L583667-08 | WG601617 |
| Chromium | mg/kg | 73.6 | 73.5 | 101. | 75-125 | 0.136 | 20 | L583667-08 | WG601617 |
| Copper | mg/kg | 58.7 | 56.1 | 99.6 | 75-125 | 4.53 | 20 | L583667-08 | WG601617 |
| Lead | mg/kg | 54.2 | 58.0 | 94.0 | 75-125 | 6.77 | 20 | L583667-08 | WG601617 |
| Nickel | mg/kg | 56.8 | 55.0 | 91.8 | 75-125 | 3.22 | 20 | L583667-08 | WG601617 |
| Silver | mg/kg | 46.1 | 45.8 | 92.2 | 75-125 | 0.653 | 20 | L583667-08 | WG601617 |
| Zinc | mg/kg | 80.9 | 78.5 | 95.6 | 75-125 | 3.01 | 20 | L583667-08 | WG601617 |
| TPH (GC/FID) Low Fraction | mg/kg | 24.8 | 25.4 | 90.3 | 55-109 | 2.24 | 20 | L583671-01 | WG601487 |
| Arsenic | mg/kg | 50.9 | 51.7 | 91.8 | 75-125 | 1.56 | 20 | L583777-10 | WG601750 |
| Mercury | mg/kg | 0.262 | 0.244 | 105. | 80-120 | 7.11 | 20 | L583783-01 | WG601512 |
| 1-Methylnaphthalene | mg/kg | 0.0252 | 0.0382 | 76.5 | 25-155 | 40.9* | 27 | L583842-06 | WG601523 |
| 2-Chloronaphthalene | mg/kg | 0.0224 | 0.0300 | 67.9 | 31-153 | 29.0* | 22 | L583842-06 | WG601523 |
| 2-Methylnaphthalene | mg/kg | 0.0266 | 0.0391 | 80.7 | 22-172 | 37.9* | 29 | L583842-06 | WG601523 |
| Acenaphthene | mg/kg | 0.0280 | 0.0590 | 55.9 | 43-133 | 71.1* | 26 | L583842-06 | WG601523 |
| Acenaphthylene | mg/kg | 0.0236 | 0.0322 | 71.5 | 42-146 | 30.8* | 22 | L583842-06 | WG601523 |
| Anthracene | mg/kg | 0.0392 | 0.114 | 33.9* | 38-153 | 97.8* | 27 | L583842-06 | WG601523 |
| Benzo(a)anthracene | mg/kg | 0.0636 | 0.212 | 4.73* | 31-142 | 108.* | 31 | L583842-06 | WG601523 |
| Benzo(a)pyrene | mg/kg | 0.0603 | 0.182 | 10.1* | 26-152 | 100.* | 32 | L583842-06 | WG601523 |

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Tax I.D. 62-0814289

Est. 1970

July 13, 2012

| Analyte | Units | MSD | Matrix Spike Duplicate | | Limit | RPD | Limit | Ref Samp | Batch |
|----------------------------|-------|--------|------------------------|-------|--------|-------|-------|------------|----------|
| | | | Ref | %Rec | | | | | |
| Benzo(b)fluoranthene | mg/kg | 0.0799 | 0.268 | 0* | 10-188 | 108.* | 33 | L583842-06 | WG601523 |
| Benzo(g,h,i)perylene | mg/kg | 0.0170 | 0.0481 | 18.3 | 10-176 | 95.3* | 30 | L583842-06 | WG601523 |
| Benzo(k)fluoranthene | mg/kg | 0.0482 | 0.107 | 70.2 | 22-163 | 76.0* | 29 | L583842-06 | WG601523 |
| Chrysene | mg/kg | 0.0617 | 0.185 | 0* | 26-146 | 100.* | 30 | L583842-06 | WG601523 |
| Dibenz(a,h)anthracene | mg/kg | 0.0133 | 0.0268 | 40.4 | 10-160 | 67.2* | 39 | L583842-06 | WG601523 |
| Fluoranthene | mg/kg | 0.131 | 0.511 | 0* | 23-160 | 119.* | 22 | L583842-06 | WG601523 |
| Fluorene | mg/kg | 0.0284 | 0.0633 | 55.6 | 44-143 | 76.2* | 23 | L583842-06 | WG601523 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.0208 | 0.0536 | 26.6 | 10-157 | 88.2* | 40 | L583842-06 | WG601523 |
| Naphthalene | mg/kg | 0.0253 | 0.0377 | 76.6 | 22-156 | 39.6* | 27 | L583842-06 | WG601523 |
| Phenanthrene | mg/kg | 0.0971 | 0.415 | 0* | 23-164 | 124.* | 25 | L583842-06 | WG601523 |
| Pyrene | mg/kg | 0.0983 | 0.357 | 0* | 12-170 | 114.* | 24 | L583842-06 | WG601523 |
| 2-Fluorobiphenyl | | | | 64.84 | 34-129 | | | | WG601523 |
| Nitrobenzene-d5 | | | | 56.57 | 14-141 | | | | WG601523 |
| p-Terphenyl-d14 | | | | 64.77 | 25-139 | | | | WG601523 |
| Selenium | mg/kg | 44.0 | 42.5 | 88.0 | 75-125 | 3.47 | 20 | L583667-08 | WG601617 |
| TPH (GC/FID) High Fraction | ppm | 52.9 | 62.3 | 88.2 | 50-150 | 16.2 | 25 | L583855-02 | WG601689 |
| o-Terphenyl | | | | 100.5 | 50-150 | | | | WG601689 |
| Chromium, Hexavalent | mg/kg | 12.4 | 13.2 | 62.0 | 50-150 | 6.25 | 20 | L583835-01 | WG601761 |

Batch number / Run number / Sample number cross reference

WG601487: R2244893: L583777-01
WG601597: R2245094: L583777-02
WG601588: R2245154: L583777-03 04 05
WG601617: R2247014: L583777-01
WG601562: R2247573: L583777-01
WG601523: R2247993: L583777-01
WG601618: R2248133: L583777-01
WG601750: R2248513: L583777-06 07 08 09 10
WG601512: R2248873: L583777-01
WG602109: R2250733: L583777-01
WG601689: R2251673: L583777-01 02 03 04 05
WG601761: R2252653: L583777-01
WG601963: R2252713: L583777-01

* * Calculations are performed prior to rounding of reported values.

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The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.



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Tax I.D. 62-0814289

Est. 1970

Blake Ford
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

Report Summary

Tuesday November 20, 2012

Report Number: L605522


Samples Received: 11/09/12

Client Project:

Description: 7405 Pit Project

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Jarred Willis, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-IN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

Blake Ford
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

November 20, 2012

Date Received : November 09, 2012
Description : 7405 Pit Project
Sample ID : 7405-SPOILS-110712
Collected By : Blake Ford
Collection Date : 11/07/12 14:11

ESC Sample # : L605522-01

Site ID :

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------------------------|--------|------------|--------|-----------|----------|------|
| Benzene | BDL | 0.0025 | mg/kg | 8021/8015 | 11/14/12 | 5 |
| Toluene | BDL | 0.025 | mg/kg | 8021/8015 | 11/14/12 | 5 |
| Ethylbenzene | BDL | 0.0025 | mg/kg | 8021/8015 | 11/14/12 | 5 |
| Total Xylene | BDL | 0.0075 | mg/kg | 8021/8015 | 11/14/12 | 5 |
| TPH (GC/FID) Low Fraction | BDL | 0.50 | mg/kg | GRO | 11/14/12 | 5 |
| Surrogate Recovery-% | | | | | | |
| a,a,a-Trifluorotoluene(FID) | 96.5 | | % Rec. | 8021/8015 | 11/14/12 | 5 |
| a,a,a-Trifluorotoluene(PID) | 99.4 | | % Rec. | 8021/8015 | 11/14/12 | 5 |
| TPH (GC/FID) High Fraction | 5.5 | 4.0 | mg/kg | 3546/DRO | 11/19/12 | 1 |
| Surrogate recovery(%) | | | | | | |
| o-Terphenyl | 60.6 | | % Rec. | 3546/DRO | 11/19/12 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 11/20/12 14:29 Printed: 11/20/12 14:29

Summary of Remarks For Samples Printed
11/20/12 at 14:29:43

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L605522-01 Account: ENCANRCO Received: 11/09/12 09:00 Due Date: 11/16/12 00:00 RPT Date: 11/20/12 14:29



YOUR LAB OF CHOICE

EnCana Oil & Gas - Rangely, CO
Blake Ford
1125 Escalante Drive

Rangely, CO 81648-3600

Quality Assurance Report
Level II

L605522

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Est. 1970

November 20, 2012

| Analyte | Result | Laboratory Blank | | Limit | Batch | Date Analyzed |
|-----------------------------|---------|------------------|-------|--------|----------|----------------|
| | | Units | % Rec | | | |
| Benzene | < .0005 | mg/kg | | | WG622397 | 11/14/12 01:19 |
| Ethylbenzene | < .0005 | mg/kg | | | WG622397 | 11/14/12 01:19 |
| Toluene | < .005 | mg/kg | | | WG622397 | 11/14/12 01:19 |
| TPH (GC/FID) Low Fraction | < .1 | mg/kg | | | WG622397 | 11/14/12 01:19 |
| Total Xylene | < .0015 | mg/kg | | | WG622397 | 11/14/12 01:19 |
| a,a,a-Trifluorotoluene(FID) | | % Rec. | 97.80 | 59-128 | WG622397 | 11/14/12 01:19 |
| a,a,a-Trifluorotoluene(PID) | | % Rec. | 101.9 | 54-144 | WG622397 | 11/14/12 01:19 |

| Analyte | Units | Laboratory Control Sample | | % Rec | Limit | Batch |
|-----------------------------|-------|---------------------------|--------|-------|--------|----------|
| | | Known Val | Result | | | |
| Benzene | mg/kg | .05 | 0.0499 | 99.8 | 76-113 | WG622397 |
| Ethylbenzene | mg/kg | .05 | 0.0558 | 112. | 78-115 | WG622397 |
| Toluene | mg/kg | .05 | 0.0535 | 107. | 76-114 | WG622397 |
| Total Xylene | mg/kg | .15 | 0.166 | 110. | 81-118 | WG622397 |
| a,a,a-Trifluorotoluene(PID) | | | | 99.92 | 54-144 | WG622397 |
| TPH (GC/FID) Low Fraction | mg/kg | 5.5 | 5.68 | 103. | 67-135 | WG622397 |
| a,a,a-Trifluorotoluene(FID) | | | | 93.96 | 59-128 | WG622397 |

| Analyte | Units | Laboratory Control Sample Duplicate | | | Limit | RPD | Limit | Batch |
|-----------------------------|-------|-------------------------------------|--------|-------|--------|------|-------|----------|
| | | Result | Ref | %Rec | | | | |
| Benzene | mg/kg | 0.0464 | 0.0499 | 93.0 | 76-113 | 7.14 | 20 | WG622397 |
| Ethylbenzene | mg/kg | 0.0515 | 0.0558 | 103. | 78-115 | 7.98 | 20 | WG622397 |
| Toluene | mg/kg | 0.0494 | 0.0535 | 99.0 | 76-114 | 8.12 | 20 | WG622397 |
| Total Xylene | mg/kg | 0.152 | 0.166 | 101. | 81-118 | 8.50 | 20 | WG622397 |
| a,a,a-Trifluorotoluene(PID) | | | | 99.13 | 54-144 | | | WG622397 |
| TPH (GC/FID) Low Fraction | mg/kg | 5.90 | 5.68 | 107. | 67-135 | 3.81 | 20 | WG622397 |
| a,a,a-Trifluorotoluene(FID) | | | | 94.31 | 59-128 | | | WG622397 |

| Analyte | Units | Matrix Spike | | | | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------------|---------|-----|-------|--------|------------|----------|
| | | MS Res | Ref Res | TV | % Rec | | | |
| Benzene | mg/kg | 0.225 | 0 | .05 | 89.8 | 32-137 | L605499-02 | WG622397 |
| Ethylbenzene | mg/kg | 0.255 | 0 | .05 | 102. | 10-150 | L605499-02 | WG622397 |
| Toluene | mg/kg | 0.247 | 0 | .05 | 98.8 | 20-142 | L605499-02 | WG622397 |
| Total Xylene | mg/kg | 0.764 | 0 | .15 | 102. | 16-141 | L605499-02 | WG622397 |
| a,a,a-Trifluorotoluene(PID) | | | | | 99.09 | 54-144 | | WG622397 |
| TPH (GC/FID) Low Fraction | mg/kg | 26.3 | 0 | 5.5 | 95.8 | 55-109 | L605499-02 | WG622397 |
| a,a,a-Trifluorotoluene(FID) | | | | | 93.06 | 59-128 | | WG622397 |

| Analyte | Units | Matrix Spike Duplicate | | | Limit | RPD | Limit | Ref Samp | Batch |
|-----------------------------|-------|------------------------|-------|-------|--------|------|-------|------------|----------|
| | | MSD | Ref | %Rec | | | | | |
| Benzene | mg/kg | 0.228 | 0.225 | 91.1 | 32-137 | 1.34 | 39 | L605499-02 | WG622397 |
| Ethylbenzene | mg/kg | 0.249 | 0.255 | 99.4 | 10-150 | 2.46 | 44 | L605499-02 | WG622397 |
| Toluene | mg/kg | 0.241 | 0.247 | 96.5 | 20-142 | 2.36 | 42 | L605499-02 | WG622397 |
| Total Xylene | mg/kg | 0.737 | 0.764 | 98.2 | 16-141 | 3.65 | 46 | L605499-02 | WG622397 |
| a,a,a-Trifluorotoluene(PID) | | | | 98.65 | 54-144 | | | | WG622397 |
| TPH (GC/FID) Low Fraction | mg/kg | 24.1 | 26.3 | 87.5 | 55-109 | 9.03 | 20 | L605499-02 | WG622397 |
| a,a,a-Trifluorotoluene(FID) | | | | 92.91 | 59-128 | | | | WG622397 |

Batch number /Run number / Sample number cross reference

WG622397: R2442277: L605522-01
WG623051: R2449462: L605522-01

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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Blake Ford
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Rangely, CO 81648-3600

Quality Assurance Report
Level II

L605522

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Est. 1970

November 20, 2012

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.