



G35 496 (Location: 335904)
Pit (Facility: 414393)
Encana Oil & Gas (USA) Inc. (Operator: 100185)

REPORT OF WORK COMPLETED

- Form 27 (Doc: 2232926) (Rem: 7763)

Encana Oil & Gas (USA) Inc. (Encana) is submitting this Form 4 (Report of Work Completed and Notification of Completion) to document closure of a lined earthen pit and cuttings disposal on a well pad in the North Parachute area of operation in Garfield County.

Initial pit closure and characterization efforts were carried out in July, 2010. The pit was drained, and the liner and above liner solids were removed for offsite disposal. Below-liner soil conditions were assessed with field observations and each cell of the pit was characterized with a 5-point composite sample of the pit bottom submitted to the laboratory for analysis. Sample results identified concentrations/levels above the allowable limits in COGCC Table 910-1 for TPH, SAR, pH, and arsenic. A composite sample of drill cuttings visible onsite was also collected during initial sampling efforts.

Following identification of below-liner impacts, the pit excavations were left open through the remainder of 2010 and early 2011 to allow hydrocarbon impacts to naturally attenuate through biological processes.

Beginning in June, 2011 both pit cells were further characterized with a series of discrete grab samples. Those samples and field observations confirmed persistent hydrocarbon impacts in below-liner soils. A track-hoe was used to remove visually stained soils from both pits, and stockpile material on the pad to support remediation. Competent bedrock was encountered during the second excavation effort which prevented vertical and lateral pursuit of soil impacts. A final round of grab samples was collected for characterization of the excavations.

The stockpiled material from the pit excavation was characterized with a composite sample and laid out to support bioremediation of hydrocarbon impacts. The initial characterization sample was above the allowable concentration, so the material was turned, and a follow up sample was collected.

Analytical results are provided in the attached summary table and laboratory reports.

NOTIFICATION OF COMPLETION

After excavation efforts were completed, seven (7) clearance samples from the pit bottoms and walls were analyzed for TPH. One (1) of the samples returned results above allowable limits in Table 910-1, while the other six (6) were below allowable limits. Encana requests that the COGCC consider the following physical and temporal conditions associated with this pit closure project as an alternative to the allowable limit for TPH identified in Table 910-1:

- The samples in question were collected from the unrecoverable residual material on top of the bedrock. They are not representative of the bedrock or the geology beneath the bedrock, and only demonstrate that the removed material had hydrocarbon impacts.
- Encana has maintained an extensive water quality monitoring program in the North Parachute Properties for nearly a decade, which includes quarterly sampling at area springs and streams. The nearest sampling point is a spring (ENPR30SP), with nearly 4 years of sampling data since the closure of this pit without any water quality problems identified. See attached topographic map for spring location.

Arsenic concentrations in the pit bottom and stockpile, and drill cuttings stockpile are above the allowable concentration in Table 910-1, but are within the range of background values for 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 values as the allowable concentration for this constituent. With regards to the inorganic constituents (SAR, EC, pH), the material represented by these samples are within the former pit footprint, are greater than five feet below the current working surface, and will be at an even greater depth below the final reclaimed working surface where the constituents will have no effect on revegetation efforts.

After bedrock refusal, the drill cuttings stockpile (approximately 600 cubic yards) and cleared pit excavation spoil were placed in the pit excavation, and the pit was backfilled and reclaimed.

If the information provided here is satisfactory, please close the associated remediation project, and pit facility, and provide documentation of these record closures.

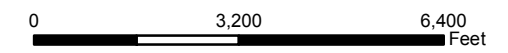
ATTACHMENTS

1. Topographic Location Map
2. Laboratory Results Summary Table
3. Laboratory Reports

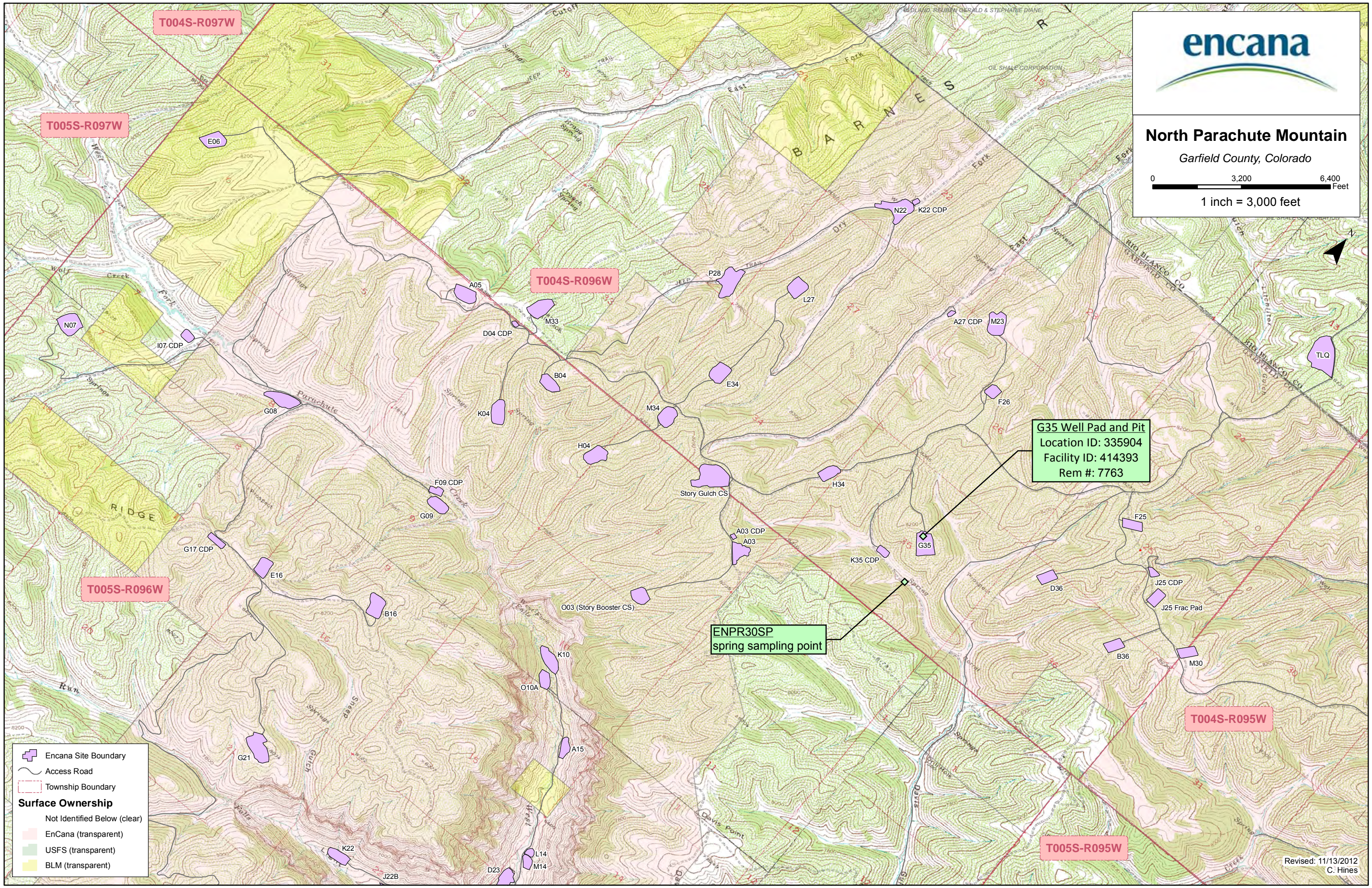


North Parachute Mountain

Garfield County, Colorado



1 inch = 3,000 feet



G35 Well Pad and Pit
Location ID: 335904
Facility ID: 414393
Rem #: 7763

ENPR30SP
spring sampling point

Encana Site Boundary
 Access Road
 Township Boundary

Surface Ownership

- Not Identified Below (clear)
- EnCana (transparent)
- USFS (transparent)
- BLM (transparent)



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Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

Report Summary

Wednesday July 28, 2010

Report Number: L469764

Samples Received: 07/21/10

Client Project:

Description: G35 Pit Closure

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:

T. Alan Harvill , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A

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

July 28, 2010

Chris Hines
 EnCana Oil & Gas Inc. - CO
 2717 County Road 215, Suite 100
 Parachute, CO 81635

ESC Sample # : L469764-01

Date Received : July 21, 2010
 Description : G35 Pit Closure

Site ID :

Sample ID : G35-BACK-071910

Project # :

Collected By : Blair Rollins
 Collection Date : 07/19/10 14:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	10.	mg/kg	3060A/7196A	07/23/10	5
Chromium,Trivalent	32.	0.50	mg/kg	Calc.	07/23/10	1
ORP	55.		mV	2580	07/23/10	1
pH	7.0		su	9045D	07/23/10	1
Sodium Adsorption Ratio	0.58			Calc.	07/23/10	1
Specific Conductance	68.		umhos/cm	9050AMod	07/22/10	1
Mercury	BDL	0.020	mg/kg	7471	07/22/10	1
Arsenic	4.1	1.0	mg/kg	6010B	07/23/10	1
Barium	260	0.25	mg/kg	6010B	07/23/10	1
Cadmium	BDL	0.25	mg/kg	6010B	07/23/10	1
Chromium	32.	0.50	mg/kg	6010B	07/23/10	1
Copper	15.	1.0	mg/kg	6010B	07/23/10	1
Lead	6.8	0.25	mg/kg	6010B	07/23/10	1
Nickel	14.	1.0	mg/kg	6010B	07/23/10	1
Selenium	2.4	1.0	mg/kg	6010B	07/23/10	1
Silver	BDL	0.50	mg/kg	6010B	07/23/10	1
Zinc	44.	1.5	mg/kg	6010B	07/23/10	1
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	07/21/10	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	89.8		% Rec.	602/8015	07/21/10	5
Benzene	BDL	0.0050	mg/kg	8260B	07/22/10	5
Toluene	BDL	0.025	mg/kg	8260B	07/22/10	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	07/22/10	5
Total Xylenes	BDL	0.015	mg/kg	8260B	07/22/10	5
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	07/22/10	5
Dibromofluoromethane	108.		% Rec.	8260B	07/22/10	5
a,a,a-Trifluorotoluene	105.		% Rec.	8260B	07/22/10	5
4-Bromofluorobenzene	85.2		% Rec.	8260B	07/22/10	5
TPH (GC/FID) High Fraction	6.6	4.0	mg/kg	3546/DRO	07/22/10	1
Surrogate recovery(%) o-Terphenyl	74.4		% Rec.	3546/DRO	07/22/10	1

Polynuclear Aromatic Hydrocarbons

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L469764-01 (PH) - 7.0@23.0c
 L469764-01 (CR6) - reducer



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July 28, 2010

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ESC Sample # : L469764-01

Date Received : July 21, 2010
 Description : G35 Pit Closure

Site ID :

Sample ID : G35-BACK-071910

Project # :

Collected By : Blair Rollins
 Collection Date : 07/19/10 14:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	07/23/10	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	07/23/10	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	07/23/10	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	07/23/10	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	07/23/10	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	07/23/10	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	07/23/10	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	07/23/10	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	07/23/10	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	07/23/10	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	07/23/10	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	07/23/10	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	07/23/10	1
Naphthalene	BDL	0.0060	mg/kg	8270C-SIM	07/23/10	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	07/23/10	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	07/23/10	1
1-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	07/23/10	1
2-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	07/23/10	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	07/23/10	1
Surrogate Recovery						
Nitrobenzene-d5	99.9		% Rec.	8270C-SIM	07/23/10	1
2-Fluorobiphenyl	90.2		% Rec.	8270C-SIM	07/23/10	1
p-Terphenyl-d14	161.		% Rec.	8270C-SIM	07/23/10	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: 07/28/10 15:02 Printed: 07/28/10 15:02

L469764-01 (PH) - 7.0@23.0c

L469764-01 (CR6) - reducer



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REPORT OF ANALYSIS

July 28, 2010

Chris Hines
 EnCana Oil & Gas Inc. - CO
 2717 County Road 215, Suite 100
 Parachute, CO 81635

Date Received : July 21, 2010
 Description : G35 Pit Closure
 Sample ID : G35-S. PIT BOTTOM-071910
 Collected By : Blair Rollins
 Collection Date : 07/19/10 14:30

ESC Sample # : L469764-02
 Site ID :
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	07/23/10	1
Chromium,Trivalent	23.	0.50	mg/kg	Calc.	07/23/10	1
ORP	-30.		mV	2580	07/23/10	1
pH	12.		su	9045D	07/23/10	1
Sodium Adsorption Ratio	9.1			Calc.	07/23/10	1
Specific Conductance	3000		umhos/cm	9050AMod	07/22/10	1
Mercury	0.038	0.020	mg/kg	7471	07/22/10	1
Arsenic	7.3	5.0	mg/kg	6010B	07/23/10	5
Barium	6700	1.2	mg/kg	6010B	07/23/10	5
Cadmium	1.4	0.25	mg/kg	6010B	07/23/10	1
Chromium	23.	0.50	mg/kg	6010B	07/23/10	1
Copper	18.	1.0	mg/kg	6010B	07/23/10	1
Lead	44.	1.2	mg/kg	6010B	07/23/10	5
Nickel	13.	1.0	mg/kg	6010B	07/23/10	1
Selenium	7.8	5.0	mg/kg	6010B	07/23/10	5
Silver	BDL	0.50	mg/kg	6010B	07/23/10	1
Zinc	47.	7.5	mg/kg	6010B	07/23/10	5
TPH (GC/FID) Low Fraction	0.87	0.50	mg/kg	8015D/GRO	07/21/10	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	89.4		% Rec.	602/8015	07/21/10	5
Benzene	0.027	0.0050	mg/kg	8260B	07/22/10	5
Toluene	0.17	0.025	mg/kg	8260B	07/22/10	5
Ethylbenzene	0.0084	0.0050	mg/kg	8260B	07/22/10	5
Total Xylenes	0.22	0.015	mg/kg	8260B	07/22/10	5
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	07/22/10	5
Dibromofluoromethane	56.6		% Rec.	8260B	07/22/10	5
a,a,a-Trifluorotoluene	97.9		% Rec.	8260B	07/22/10	5
4-Bromofluorobenzene	98.3		% Rec.	8260B	07/22/10	5
TPH (GC/FID) High Fraction	680	80.	mg/kg	3546/DRO	07/24/10	20
Surrogate recovery(%) o-Terphenyl	0.00		% Rec.	3546/DRO	07/24/10	20

Polynuclear Aromatic Hydrocarbons

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L469764-02 (PH) - 12.0@23.1c
 L469764-02 (SV8270PAHSIM) - Dilution due to matrix



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REPORT OF ANALYSIS

July 28, 2010

Chris Hines
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ESC Sample # : L469764-02

Date Received : July 21, 2010
 Description : G35 Pit Closure

Site ID :

Sample ID : G35-S. PIT BOTTOM-071910

Project # :

Collected By : Blair Rollins
 Collection Date : 07/19/10 14:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Anthracene	BDL	0.12	mg/kg	8270C-SIM	07/27/10	20
Acenaphthene	BDL	0.12	mg/kg	8270C-SIM	07/27/10	20
Acenaphthylene	BDL	0.12	mg/kg	8270C-SIM	07/27/10	20
Benzo(a)anthracene	BDL	0.12	mg/kg	8270C-SIM	07/27/10	20
Benzo(a)pyrene	BDL	0.12	mg/kg	8270C-SIM	07/27/10	20
Benzo(b)fluoranthene	BDL	0.12	mg/kg	8270C-SIM	07/27/10	20
Benzo(g,h,i)perylene	BDL	0.12	mg/kg	8270C-SIM	07/27/10	20
Benzo(k)fluoranthene	BDL	0.12	mg/kg	8270C-SIM	07/27/10	20
Chrysene	BDL	0.12	mg/kg	8270C-SIM	07/27/10	20
Dibenz(a,h)anthracene	BDL	0.12	mg/kg	8270C-SIM	07/27/10	20
Fluoranthene	BDL	0.12	mg/kg	8270C-SIM	07/27/10	20
Fluorene	BDL	0.12	mg/kg	8270C-SIM	07/27/10	20
Indeno(1,2,3-cd)pyrene	BDL	0.12	mg/kg	8270C-SIM	07/27/10	20
Naphthalene	0.20	0.12	mg/kg	8270C-SIM	07/27/10	20
Phenanthrene	BDL	0.12	mg/kg	8270C-SIM	07/27/10	20
Pyrene	BDL	0.12	mg/kg	8270C-SIM	07/27/10	20
1-Methylnaphthalene	0.19	0.12	mg/kg	8270C-SIM	07/27/10	20
2-Methylnaphthalene	0.51	0.12	mg/kg	8270C-SIM	07/27/10	20
2-Chloronaphthalene	BDL	0.12	mg/kg	8270C-SIM	07/27/10	20
Surrogate Recovery						
Nitrobenzene-d5	0.00		% Rec.	8270C-SIM	07/27/10	20
2-Fluorobiphenyl	0.00		% Rec.	8270C-SIM	07/27/10	20
p-Terphenyl-d14	0.00		% Rec.	8270C-SIM	07/27/10	20

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L469764-02 (PH) - 12.0@23.1c

L469764-02 (SV8270PAHSIM) - Dilution due to matrix



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REPORT OF ANALYSIS

July 28, 2010

Chris Hines
 EnCana Oil & Gas Inc. - CO
 2717 County Road 215, Suite 100
 Parachute, CO 81635

ESC Sample # : L469764-03

Date Received : July 21, 2010
 Description : G35 Pit Closure

Site ID :

Sample ID : G35-N. PIT BOTTOM-071910

Project # :

Collected By : Blair Rollins
 Collection Date : 07/19/10 14:50

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	07/23/10	1
Chromium,Trivalent	28.	0.50	mg/kg	Calc.	07/23/10	1
ORP	-1.0		mV	2580	07/23/10	1
pH	9.0		su	9045D	07/23/10	1
Sodium Adsorption Ratio	14.			Calc.	07/23/10	1
Specific Conductance	980		umhos/cm	9050AMod	07/22/10	1
Mercury	0.14	0.020	mg/kg	7471	07/22/10	1
Arsenic	15.	1.0	mg/kg	6010B	07/23/10	1
Barium	4400	0.25	mg/kg	6010B	07/23/10	1
Cadmium	0.37	0.25	mg/kg	6010B	07/23/10	1
Chromium	28.	0.50	mg/kg	6010B	07/23/10	1
Copper	34.	1.0	mg/kg	6010B	07/23/10	1
Lead	32.	0.25	mg/kg	6010B	07/23/10	1
Nickel	21.	1.0	mg/kg	6010B	07/23/10	1
Selenium	2.4	1.0	mg/kg	6010B	07/23/10	1
Silver	BDL	0.50	mg/kg	6010B	07/23/10	1
Zinc	49.	1.5	mg/kg	6010B	07/23/10	1
TPH (GC/FID) Low Fraction	0.56	0.50	mg/kg	8015D/GRO	07/21/10	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	87.9		% Rec.	602/8015	07/21/10	5
Benzene	BDL	0.0050	mg/kg	8260B	07/22/10	5
Toluene	BDL	0.025	mg/kg	8260B	07/22/10	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	07/22/10	5
Total Xylenes	BDL	0.015	mg/kg	8260B	07/22/10	5
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	07/22/10	5
Dibromofluoromethane	109.		% Rec.	8260B	07/22/10	5
a,a,a-Trifluorotoluene	98.7		% Rec.	8260B	07/22/10	5
4-Bromofluorobenzene	93.5		% Rec.	8260B	07/22/10	5
TPH (GC/FID) High Fraction	780	80.	mg/kg	3546/DRO	07/24/10	20
Surrogate recovery(%) o-Terphenyl	0.00		% Rec.	3546/DRO	07/24/10	20

Polynuclear Aromatic Hydrocarbons

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L469764-03 (SV8270PAHSIM) - Dilution due to matrix
 L469764-03 (PH) - 9.0@23.0c



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REPORT OF ANALYSIS

July 28, 2010

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

ESC Sample # : L469764-03

Date Received : July 21, 2010
Description : G35 Pit Closure

Site ID :

Sample ID : G35-N. PIT BOTTOM-071910

Project # :

Collected By : Blair Rollins
Collection Date : 07/19/10 14:50

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Lists various chemical parameters and their detection results.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 07/28/10 15:02 Printed: 07/28/10 15:02
L469764-03 (SV8270PAHSIM) - Dilution due to matrix
L469764-03 (PH) - 9.0@23.0c



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REPORT OF ANALYSIS

July 28, 2010

Chris Hines
 EnCana Oil & Gas Inc. - CO
 2717 County Road 215, Suite 100
 Parachute, CO 81635

ESC Sample # : L469764-04

Date Received : July 21, 2010
 Description : G35 Pit Closure

Site ID :

Sample ID : G35-CUTTINGS-071910

Project # :

Collected By : Blair Rollins
 Collection Date : 07/19/10 15:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	07/23/10	1
Chromium,Trivalent	38.	0.50	mg/kg	Calc.	07/23/10	1
ORP	9.0		mV	2580	07/23/10	1
pH	9.9		su	9045D	07/23/10	1
Sodium Adsorption Ratio	5.0			Calc.	07/23/10	1
Specific Conductance	1600		umhos/cm	9050AMod	07/22/10	1
Mercury	0.029	0.020	mg/kg	7471	07/22/10	1
Arsenic	7.3	1.0	mg/kg	6010B	07/23/10	1
Barium	8400	1.2	mg/kg	6010B	07/23/10	5
Cadmium	0.84	0.25	mg/kg	6010B	07/23/10	1
Chromium	38.	0.50	mg/kg	6010B	07/23/10	1
Copper	21.	1.0	mg/kg	6010B	07/23/10	1
Lead	24.	0.25	mg/kg	6010B	07/23/10	1
Nickel	21.	1.0	mg/kg	6010B	07/23/10	1
Selenium	BDL	1.0	mg/kg	6010B	07/23/10	1
Silver	BDL	0.50	mg/kg	6010B	07/23/10	1
Zinc	45.	1.5	mg/kg	6010B	07/23/10	1
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	07/21/10	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	89.7		% Rec.	602/8015	07/21/10	5
Benzene	BDL	0.0050	mg/kg	8260B	07/22/10	5
Toluene	BDL	0.025	mg/kg	8260B	07/22/10	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	07/22/10	5
Total Xylenes	BDL	0.015	mg/kg	8260B	07/22/10	5
Surrogate Recovery						
Toluene-d8	100.		% Rec.	8260B	07/22/10	5
Dibromofluoromethane	102.		% Rec.	8260B	07/22/10	5
a,a,a-Trifluorotoluene	102.		% Rec.	8260B	07/22/10	5
4-Bromofluorobenzene	93.9		% Rec.	8260B	07/22/10	5
TPH (GC/FID) High Fraction	55.	4.0	mg/kg	3546/DRO	07/22/10	1
Surrogate recovery(%) o-Terphenyl	87.1		% Rec.	3546/DRO	07/22/10	1

Polynuclear Aromatic Hydrocarbons

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L469764-04 (SV8270PAHSIM) - Diluted due to matrix
 L469764-04 (PH) - 9.9@23.3c



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Est. 1970

REPORT OF ANALYSIS

July 28, 2010

Chris Hines
 EnCana Oil & Gas Inc. - CO
 2717 County Road 215, Suite 100
 Parachute, CO 81635

ESC Sample # : L469764-04

Date Received : July 21, 2010
 Description : G35 Pit Closure

Site ID :

Sample ID : G35-CUTTINGS-071910

Project # :

Collected By : Blair Rollins
 Collection Date : 07/19/10 15:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Anthracene	BDL	0.060	mg/kg	8270C-SIM	07/26/10	10
Acenaphthene	BDL	0.060	mg/kg	8270C-SIM	07/26/10	10
Acenaphthylene	BDL	0.060	mg/kg	8270C-SIM	07/26/10	10
Benzo(a)anthracene	BDL	0.060	mg/kg	8270C-SIM	07/26/10	10
Benzo(a)pyrene	BDL	0.060	mg/kg	8270C-SIM	07/26/10	10
Benzo(b)fluoranthene	BDL	0.060	mg/kg	8270C-SIM	07/26/10	10
Benzo(g,h,i)perylene	BDL	0.060	mg/kg	8270C-SIM	07/26/10	10
Benzo(k)fluoranthene	BDL	0.060	mg/kg	8270C-SIM	07/26/10	10
Chrysene	BDL	0.060	mg/kg	8270C-SIM	07/26/10	10
Dibenz(a,h)anthracene	BDL	0.060	mg/kg	8270C-SIM	07/26/10	10
Fluoranthene	BDL	0.060	mg/kg	8270C-SIM	07/26/10	10
Fluorene	BDL	0.060	mg/kg	8270C-SIM	07/26/10	10
Indeno(1,2,3-cd)pyrene	BDL	0.060	mg/kg	8270C-SIM	07/26/10	10
Naphthalene	BDL	0.060	mg/kg	8270C-SIM	07/26/10	10
Phenanthrene	BDL	0.060	mg/kg	8270C-SIM	07/26/10	10
Pyrene	BDL	0.060	mg/kg	8270C-SIM	07/26/10	10
1-Methylnaphthalene	BDL	0.060	mg/kg	8270C-SIM	07/26/10	10
2-Methylnaphthalene	BDL	0.060	mg/kg	8270C-SIM	07/26/10	10
2-Chloronaphthalene	BDL	0.060	mg/kg	8270C-SIM	07/26/10	10
Surrogate Recovery						
Nitrobenzene-d5	87.8		% Rec.	8270C-SIM	07/26/10	10
2-Fluorobiphenyl	100.		% Rec.	8270C-SIM	07/26/10	10
p-Terphenyl-d14	124.		% Rec.	8270C-SIM	07/26/10	10

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: 07/28/10 15:02 Printed: 07/28/10 15:02
 L469764-04 (SV8270PAHSIM) - Diluted due to matrix
 L469764-04 (PH) - 9.9@23.3c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L469764-01	WG489632	SAMP	p-Terphenyl-d14	R1298729	J1
	WG489641	SAMP	Chromium,Hexavalent	R1298390	J3J60
L469764-02	WG489679	SAMP	Dibromofluoromethane	R1297629	J2
	WG490295	SAMP	Nitrobenzene-d5	R1302610	J7
	WG490295	SAMP	2-Fluorobiphenyl	R1302610	J7
	WG490295	SAMP	p-Terphenyl-d14	R1302610	J7
	WG489699	SAMP	o-Terphenyl	R1298632	J7
L469764-03	WG490295	SAMP	Nitrobenzene-d5	R1302610	J7
	WG490295	SAMP	2-Fluorobiphenyl	R1302610	J7
	WG490295	SAMP	p-Terphenyl-d14	R1302610	J7
	WG489699	SAMP	o-Terphenyl	R1298632	J7
L469764-04	WG489632	SAMP	Anthracene	R1298729	O
	WG489632	SAMP	Acenaphthene	R1298729	O
	WG489632	SAMP	Acenaphthylene	R1298729	O
	WG489632	SAMP	Benzo(a)anthracene	R1298729	O
	WG489632	SAMP	Benzo(a)pyrene	R1298729	O
	WG489632	SAMP	Benzo(b)fluoranthene	R1298729	O
	WG489632	SAMP	Benzo(g,h,i)perylene	R1298729	O
	WG489632	SAMP	Benzo(k)fluoranthene	R1298729	O
	WG489632	SAMP	Chrysene	R1298729	O
	WG489632	SAMP	Dibenz(a,h)anthracene	R1298729	O
	WG489632	SAMP	Fluoranthene	R1298729	O
	WG489632	SAMP	Fluorene	R1298729	O
	WG489632	SAMP	Indeno(1,2,3-cd)pyrene	R1298729	O
	WG489632	SAMP	Naphthalene	R1298729	O
	WG489632	SAMP	Phenanthrene	R1298729	O
	WG489632	SAMP	Pyrene	R1298729	O
	WG489632	SAMP	1-Methylnaphthalene	R1298729	O
	WG489632	SAMP	2-Methylnaphthalene	R1298729	O
	WG489632	SAMP	2-Chloronaphthalene	R1298729	O
	WG489632	SAMP	p-Terphenyl-d14	R1298729	J1

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits
0	(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.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low
J3	The associated batch QC was outside the established quality control range for precision.
J7	Surrogate recovery limits cannot be evaluated; surrogates were diluted out

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
07/28/10 at 15:02:34

TSR Signing Reports: 358
R4 - Rush: Three Day

Sample: L469764-01 Account: ENCANACO Received: 07/21/10 09:00 Due Date: 07/26/10 00:00 RPT Date: 07/28/10 15:02

Sample: L469764-02 Account: ENCANACO Received: 07/21/10 09:00 Due Date: 07/28/10 00:00 RPT Date: 07/28/10 15:02

Sample: L469764-03 Account: ENCANACO Received: 07/21/10 09:00 Due Date: 07/28/10 00:00 RPT Date: 07/28/10 15:02

Sample: L469764-04 Account: ENCANACO Received: 07/21/10 09:00 Due Date: 07/26/10 00:00 RPT Date: 07/28/10 15:02



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Quality Assurance Report
 Level II

L469764

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Tax I.D. 62-0814289

Est. 1970

July 28, 2010

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Specific Conductance	1.20	umhos/cm			WG489681	07/22/10 12:46
Mercury	< .02	mg/kg			WG489553	07/22/10 09:17
Benzene	< .001	mg/kg			WG489679	07/22/10 00:31
Ethylbenzene	< .001	mg/kg			WG489679	07/22/10 00:31
Toluene	< .005	mg/kg			WG489679	07/22/10 00:31
Total Xylenes	< .003	mg/kg			WG489679	07/22/10 00:31
4-Bromofluorobenzene		% Rec.	96.86	59-140	WG489679	07/22/10 00:31
Dibromofluoromethane		% Rec.	101.5	63-139	WG489679	07/22/10 00:31
Toluene-d8		% Rec.	102.3	84-116	WG489679	07/22/10 00:31
a,a,a-Trifluorotoluene		% Rec.	108.7	80-118	WG489679	07/22/10 00:31
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG489537	07/21/10 13:29
a,a,a-Trifluorotoluene(FID)		% Rec.	93.35	59-128	WG489537	07/21/10 13:29
Chromium,Hexavalent	< 2	mg/kg			WG489641	07/23/10 10:07
TPH (GC/FID) High Fraction	< 4	ppm			WG489699	07/22/10 18:43
o-Terphenyl		% Rec.	89.99	50-150	WG489699	07/22/10 18:43
Arsenic	< 1	mg/kg			WG489613	07/23/10 10:06
Barium	< .25	mg/kg			WG489613	07/23/10 10:06
Cadmium	< .25	mg/kg			WG489613	07/23/10 10:06
Chromium	< .5	mg/kg			WG489613	07/23/10 10:06
Copper	< 1	mg/kg			WG489613	07/23/10 10:06
Lead	< .25	mg/kg			WG489613	07/23/10 10:06
Nickel	< 1	mg/kg			WG489613	07/23/10 10:06
Selenium	< 1	mg/kg			WG489613	07/23/10 10:06
Silver	< .5	mg/kg			WG489613	07/23/10 10:06
Zinc	< 1.5	mg/kg			WG489613	07/23/10 10:06
1-Methylnaphthalene	< .006	mg/kg			WG489632	07/23/10 09:15
2-Chloronaphthalene	< .006	mg/kg			WG489632	07/23/10 09:15
2-Methylnaphthalene	< .006	mg/kg			WG489632	07/23/10 09:15
Acenaphthene	< .006	mg/kg			WG489632	07/23/10 09:15
Acenaphthylene	< .006	mg/kg			WG489632	07/23/10 09:15
Anthracene	< .006	mg/kg			WG489632	07/23/10 09:15
Benzo(a)anthracene	< .006	mg/kg			WG489632	07/23/10 09:15
Benzo(a)pyrene	< .006	mg/kg			WG489632	07/23/10 09:15
Benzo(b)fluoranthene	< .006	mg/kg			WG489632	07/23/10 09:15
Benzo(g,h,i)perylene	< .006	mg/kg			WG489632	07/23/10 09:15
Benzo(k)fluoranthene	< .006	mg/kg			WG489632	07/23/10 09:15
Chrysene	< .006	mg/kg			WG489632	07/23/10 09:15
Dibenz(a,h)anthracene	< .006	mg/kg			WG489632	07/23/10 09:15
Fluoranthene	< .006	mg/kg			WG489632	07/23/10 09:15
Fluorene	< .006	mg/kg			WG489632	07/23/10 09:15
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG489632	07/23/10 09:15
Naphthalene	< .006	mg/kg			WG489632	07/23/10 09:15
Phenanthrene	< .006	mg/kg			WG489632	07/23/10 09:15
Pyrene	< .006	mg/kg			WG489632	07/23/10 09:15
2-Fluorobiphenyl		% Rec.	66.20	21-120	WG489632	07/23/10 09:15

* 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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July 28, 2010

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Nitrobenzene-d5		% Rec.	73.13	33-114		07/23/10 09:15
p-Terphenyl-d14		% Rec.	96.73	18-142		07/23/10 09:15
pH	4.40	su			WG489871	07/23/10 13:09
1-Methylnaphthalene	< .006	mg/kg			WG490295	07/27/10 18:54
2-Chloronaphthalene	< .006	mg/kg			WG490295	07/27/10 18:54
2-Methylnaphthalene	< .006	mg/kg			WG490295	07/27/10 18:54
Acenaphthene	< .006	mg/kg			WG490295	07/27/10 18:54
Acenaphthylene	< .006	mg/kg			WG490295	07/27/10 18:54
Anthracene	< .006	mg/kg			WG490295	07/27/10 18:54
Benzo(a)anthracene	< .006	mg/kg			WG490295	07/27/10 18:54
Benzo(a)pyrene	< .006	mg/kg			WG490295	07/27/10 18:54
Benzo(b)fluoranthene	< .006	mg/kg			WG490295	07/27/10 18:54
Benzo(g,h,i)perylene	< .006	mg/kg			WG490295	07/27/10 18:54
Benzo(k)fluoranthene	< .006	mg/kg			WG490295	07/27/10 18:54
Chrysene	< .006	mg/kg			WG490295	07/27/10 18:54
Dibenz(a,h)anthracene	< .006	mg/kg			WG490295	07/27/10 18:54
Fluoranthene	< .006	mg/kg			WG490295	07/27/10 18:54
Fluorene	< .006	mg/kg			WG490295	07/27/10 18:54
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG490295	07/27/10 18:54
Naphthalene	< .006	mg/kg			WG490295	07/27/10 18:54
Phenanthrene	< .006	mg/kg			WG490295	07/27/10 18:54
Pyrene	< .006	mg/kg			WG490295	07/27/10 18:54
2-Fluorobiphenyl		% Rec.	114.9	21-120		WG490295 07/27/10 18:54
Nitrobenzene-d5		% Rec.	109.9	33-114		WG490295 07/27/10 18:54
p-Terphenyl-d14		% Rec.	124.6	18-142		WG490295 07/27/10 18:54

Analyte	Units	Duplicate			Limit	Ref Samp	Batch
		Result	Duplicate	RPD			
Specific Conductance	umhos/cm	290.	290.	0	20	L469362-01	WG489681
Specific Conductance	umhos/cm	2400	70.0	189.*	20	L469778-01	WG489681
Mercury	mg/kg	0.0420	0.0870	70.2*	20	L469778-03	WG489553
Chromium,Hexavalent	mg/kg	0	0	0	20	L469682-04	WG489641
Chromium,Hexavalent	mg/kg	0	0	0	20	L469749-01	WG489641
Arsenic	mg/kg	4.00	5.60	32.1*	20	L469778-04	WG489613
Cadmium	mg/kg	0.690	0.440	43.7*	20	L469778-04	WG489613
Chromium	mg/kg	17.0	30.0	56.4*	20	L469778-04	WG489613
Copper	mg/kg	12.0	19.0	41.3*	20	L469778-04	WG489613
Lead	mg/kg	18.0	22.0	21.7*	20	L469778-04	WG489613
Nickel	mg/kg	10.0	20.0	63.2*	20	L469778-04	WG489613
Selenium	mg/kg	0	0	0	20	L469778-04	WG489613
Silver	mg/kg	0	0	0	20	L469778-04	WG489613
Zinc	mg/kg	67.0	47.0	34.7*	20	L469778-04	WG489613
ORP	mV	20.0	17.0	16.2	20	L469410-01	WG489869
ORP	mV	22.0	21.0	4.65	20	L469778-04	WG489869
pH	su	10.0	10.0	0	1	L469778-04	WG489871

* Performance of this Analyte is outside of established criteria.
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Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
Barium	mg/kg	7300	12000	49.2*	20	L469778-04	WG489613

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Specific Conductance	umhos/cm	406	420.	103.	85-115	WG489681
Mercury	mg/kg	8.77	10.9	124.	71.6-127.7	WG489553
Benzene	mg/kg	.025	0.0256	102.	65-128	WG489679
Ethylbenzene	mg/kg	.025	0.0271	108.	74-128	WG489679
Toluene	mg/kg	.025	0.0263	105.	70-120	WG489679
Total Xylenes	mg/kg	.075	0.0827	110.	74-127	WG489679
4-Bromofluorobenzene				103.3	59-140	WG489679
Dibromofluoromethane				102.5	63-139	WG489679
Toluene-d8				104.5	84-116	WG489679
a,a,a-Trifluorotoluene				102.9	80-118	WG489679
TPH (GC/FID) Low Fraction	mg/kg	5.5	3.98	72.4	67-135	WG489537
a,a,a-Trifluorotoluene(FID)				95.37	59-128	WG489537
Chromium,Hexavalent	mg/kg	100	96.3	96.3	50-143	WG489641
TPH (GC/FID) High Fraction	ppm	60	44.2	73.7	50-150	WG489699
o-Terphenyl				95.04	50-150	WG489699
Arsenic	mg/kg	192	176.	91.7	78.6-120.8	WG489613
Barium	mg/kg	420	393.	93.6	78.8-121.4	WG489613
Cadmium	mg/kg	70.1	63.0	89.9	78.5-121.5	WG489613
Chromium	mg/kg	168	164.	97.6	80.4-120.2	WG489613
Copper	mg/kg	122	120.	98.4	81.6-119.7	WG489613
Lead	mg/kg	113	106.	93.8	77.3-122.1	WG489613
Nickel	mg/kg	74.1	77.9	105.	78.8-121.2	WG489613
Selenium	mg/kg	176	167.	94.9	75.6-125.0	WG489613
Silver	mg/kg	115	106.	92.2	66-133.9	WG489613
Zinc	mg/kg	437	413.	94.5	78.5-121.7	WG489613
1-Methylnaphthalene	mg/kg	.033	0.0252	76.4	41-110	WG489632
2-Chloronaphthalene	mg/kg	.033	0.0261	79.1	43-109	WG489632
2-Methylnaphthalene	mg/kg	.033	0.0249	75.4	38-104	WG489632
Acenaphthene	mg/kg	.033	0.0263	79.8	48-103	WG489632
Acenaphthylene	mg/kg	.033	0.0272	82.5	43-106	WG489632
Anthracene	mg/kg	.033	0.0311	94.2	51-110	WG489632
Benzo(a)anthracene	mg/kg	.033	0.0329	99.6	38-126	WG489632
Benzo(a)pyrene	mg/kg	.033	0.0311	94.3	47-118	WG489632
Benzo(b)fluoranthene	mg/kg	.033	0.0296	89.8	47-118	WG489632
Benzo(g,h,i)perylene	mg/kg	.033	0.0303	91.8	40-125	WG489632
Benzo(k)fluoranthene	mg/kg	.033	0.0322	97.6	45-121	WG489632
Chrysene	mg/kg	.033	0.0310	94.0	35-135	WG489632
Dibenz(a,h)anthracene	mg/kg	.033	0.0320	97.1	41-124	WG489632
Fluoranthene	mg/kg	.033	0.0308	93.3	50-114	WG489632

* Performance of this Analyte is outside of established criteria.
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YOUR LAB OF CHOICE

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 Chris Hines
 2717 County Road 215, Suite 100
 Parachute, CO 81635

Quality Assurance Report
 Level II

L469764

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 28, 2010

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Fluorene	mg/kg	.033	0.0293	88.7	49-109	WG489632
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.0309	93.6	40-126	WG489632
Naphthalene	mg/kg	.033	0.0240	72.8	36-100	WG489632
Phenanthrene	mg/kg	.033	0.0295	89.4	46-108	WG489632
Pyrene	mg/kg	.033	0.0329	99.6	30-136	WG489632
2-Fluorobiphenyl				93.33	21-120	WG489632
Nitrobenzene-d5				96.78	33-114	WG489632
p-Terphenyl-d14				132.9	18-142	WG489632
ORP	mV	229	220.	96.1	95.6-104.37	WG489869
pH	su	9.36	9.30	99.4	98.9-102.0	WG489871
1-Methylnaphthalene	mg/kg	.033	0.0286	86.5	41-110	WG490295
2-Chloronaphthalene	mg/kg	.033	0.0293	88.9	43-109	WG490295
2-Methylnaphthalene	mg/kg	.033	0.0282	85.3	38-104	WG490295
Acenaphthene	mg/kg	.033	0.0292	88.5	48-103	WG490295
Acenaphthylene	mg/kg	.033	0.0293	88.8	43-106	WG490295
Anthracene	mg/kg	.033	0.0307	93.0	51-110	WG490295
Benzo(a)anthracene	mg/kg	.033	0.0314	95.2	38-126	WG490295
Benzo(a)pyrene	mg/kg	.033	0.0308	93.3	47-118	WG490295
Benzo(b)fluoranthene	mg/kg	.033	0.0306	92.6	47-118	WG490295
Benzo(g,h,i)perylene	mg/kg	.033	0.0316	95.7	40-125	WG490295
Benzo(k)fluoranthene	mg/kg	.033	0.0327	98.9	45-121	WG490295
Chrysene	mg/kg	.033	0.0318	96.3	35-135	WG490295
Dibenz(a,h)anthracene	mg/kg	.033	0.0311	94.1	41-124	WG490295
Fluoranthene	mg/kg	.033	0.0322	97.5	50-114	WG490295
Fluorene	mg/kg	.033	0.0289	87.6	49-109	WG490295
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.0313	94.9	40-126	WG490295
Naphthalene	mg/kg	.033	0.0284	85.9	36-100	WG490295
Phenanthrene	mg/kg	.033	0.0308	93.2	46-108	WG490295
Pyrene	mg/kg	.033	0.0308	93.3	30-136	WG490295
2-Fluorobiphenyl				112.8	21-120	WG490295
Nitrobenzene-d5				106.5	33-114	WG490295
p-Terphenyl-d14				135.2	18-142	WG490295

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Specific Conductance	umhos/	420.	420.	103.	85-115	0	20	WG489681
Benzene	mg/kg	0.0215	0.0256	86.0	65-128	17.5	20	WG489679
Ethylbenzene	mg/kg	0.0232	0.0271	93.0	74-128	15.3	20	WG489679
Toluene	mg/kg	0.0225	0.0263	90.0	70-120	15.8	20	WG489679
Total Xylenes	mg/kg	0.0712	0.0827	95.0	74-127	15.0	20	WG489679
4-Bromofluorobenzene				100.9	59-140			WG489679
Dibromofluoromethane				100.8	63-139			WG489679
Toluene-d8				103.2	84-116			WG489679
a,a,a-Trifluorotoluene				102.4	80-118			WG489679
TPH (GC/FID) Low Fraction	mg/kg	4.13	3.98	75.0	67-135	3.61	20	WG489537
a,a,a-Trifluorotoluene(FID)				96.54	59-128			WG489537

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Analyte	Units	Laboratory Control		Sample Duplicate	Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Chromium, Hexavalent	mg/kg	94.9	96.3	95.0	50-143	1.46	20	WG489641
TPH (GC/FID) High Fraction	ppm	41.5	44.2	69.0	50-150	6.35	20	WG489699
o-Terphenyl				90.02	50-150			WG489699
1-Methylnaphthalene	mg/kg	0.0235	0.0252	71.0	41-110	7.07	24	WG489632
2-Chloronaphthalene	mg/kg	0.0256	0.0261	78.0	43-109	1.93	21	WG489632
2-Methylnaphthalene	mg/kg	0.0242	0.0249	73.0	38-104	2.56	24	WG489632
Acenaphthene	mg/kg	0.0258	0.0263	78.0	48-103	2.15	20	WG489632
Acenaphthylene	mg/kg	0.0262	0.0272	79.0	43-106	3.94	20	WG489632
Anthracene	mg/kg	0.0293	0.0311	89.0	51-110	6.09	22	WG489632
Benzo(a)anthracene	mg/kg	0.0303	0.0329	92.0	38-126	8.05	20	WG489632
Benzo(a)pyrene	mg/kg	0.0295	0.0311	89.0	47-118	5.44	20	WG489632
Benzo(b)fluoranthene	mg/kg	0.0280	0.0296	85.0	47-118	5.58	29	WG489632
Benzo(g,h,i)perylene	mg/kg	0.0291	0.0303	88.0	40-125	4.03	20	WG489632
Benzo(k)fluoranthene	mg/kg	0.0313	0.0322	95.0	45-121	2.95	31	WG489632
Chrysene	mg/kg	0.0301	0.0310	91.0	35-135	2.87	20	WG489632
Dibenz(a,h)anthracene	mg/kg	0.0298	0.0320	90.0	41-124	7.35	20	WG489632
Fluoranthene	mg/kg	0.0305	0.0308	92.0	50-114	0.838	20	WG489632
Fluorene	mg/kg	0.0275	0.0293	83.0	49-109	6.14	19	WG489632
Indeno(1,2,3-cd)pyrene	mg/kg	0.0292	0.0309	88.0	40-126	5.50	20	WG489632
Naphthalene	mg/kg	0.0236	0.0240	72.0	36-100	1.69	24	WG489632
Phenanthrene	mg/kg	0.0289	0.0295	88.0	46-108	2.15	21	WG489632
Pyrene	mg/kg	0.0301	0.0329	91.0	30-136	8.90	20	WG489632
2-Fluorobiphenyl				88.56	21-120			WG489632
Nitrobenzene-d5				92.84	33-114			WG489632
p-Terphenyl-d14				124.4	18-142			WG489632
ORP	mV	220.	220.	96.0	95.6-104.37	0	20	WG489869
pH	su	9.30	9.30	99.0	98.9-102.0	0	20	WG489871
1-Methylnaphthalene	mg/kg	0.0294	0.0286	89.0	41-110	3.08	24	WG490295
2-Chloronaphthalene	mg/kg	0.0305	0.0293	92.0	43-109	3.71	21	WG490295
2-Methylnaphthalene	mg/kg	0.0300	0.0282	91.0	38-104	6.34	24	WG490295
Acenaphthene	mg/kg	0.0300	0.0292	91.0	48-103	2.65	20	WG490295
Acenaphthylene	mg/kg	0.0302	0.0293	92.0	43-106	2.98	20	WG490295
Anthracene	mg/kg	0.0307	0.0307	93.0	51-110	0.0517	22	WG490295
Benzo(a)anthracene	mg/kg	0.0330	0.0314	100.	38-126	4.85	20	WG490295
Benzo(a)pyrene	mg/kg	0.0305	0.0308	92.0	47-118	1.00	20	WG490295
Benzo(b)fluoranthene	mg/kg	0.0292	0.0306	88.0	47-118	4.70	29	WG490295
Benzo(g,h,i)perylene	mg/kg	0.0306	0.0316	93.0	40-125	3.14	20	WG490295
Benzo(k)fluoranthene	mg/kg	0.0340	0.0327	103.	45-121	3.91	31	WG490295
Chrysene	mg/kg	0.0295	0.0318	90.0	35-135	7.32	20	WG490295
Dibenz(a,h)anthracene	mg/kg	0.0304	0.0311	92.0	41-124	2.21	20	WG490295
Fluoranthene	mg/kg	0.0323	0.0322	98.0	50-114	0.506	20	WG490295
Fluorene	mg/kg	0.0295	0.0289	89.0	49-109	2.06	19	WG490295
Indeno(1,2,3-cd)pyrene	mg/kg	0.0301	0.0313	91.0	40-126	4.15	20	WG490295
Naphthalene	mg/kg	0.0299	0.0284	90.0	36-100	5.17	24	WG490295
Phenanthrene	mg/kg	0.0321	0.0308	97.0	46-108	4.35	21	WG490295
Pyrene	mg/kg	0.0308	0.0308	93.0	30-136	0.0554	20	WG490295
2-Fluorobiphenyl				111.0	21-120			WG490295
Nitrobenzene-d5				111.1	33-114			WG490295
p-Terphenyl-d14				128.3	18-142			WG490295

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Est. 1970

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Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Mercury	mg/kg	0.263	0.0870	.25	70.4	70-130	L469778-03	WG489553
Benzene	mg/kg	0.108	0	.025	86.0	16-143	L469764-01	WG489679
Ethylbenzene	mg/kg	0.106	0	.025	84.4	12-137	L469764-01	WG489679
Toluene	mg/kg	0.108	0	.025	86.2	12-136	L469764-01	WG489679
Total Xylenes	mg/kg	0.328	0	.075	87.4	10-138	L469764-01	WG489679
4-Bromofluorobenzene					90.20	59-140		WG489679
Dibromofluoromethane					104.2	63-139		WG489679
Toluene-d8					101.5	84-116		WG489679
a,a,a-Trifluorotoluene					100.8	80-118		WG489679
TPH (GC/FID) Low Fraction	mg/kg	16.6	10.1	5.5	23.5*	55-109	L469686-04	WG489537
a,a,a-Trifluorotoluene(FID)					91.41	59-128		WG489537
Chromium,Hexavalent	mg/kg	0.880	0	20	0.880*	50-150	L469764-01	WG489641
TPH (GC/FID) High Fraction	ppm	38.3	4.60	60	56.2	50-150	L469878-02	WG489699
o-Terphenyl					89.77	50-150		WG489699
Arsenic	mg/kg	50.6	5.60	50	90.0	75-125	L469778-04	WG489613
Cadmium	mg/kg	40.0	0.440	50	79.1	75-125	L469778-04	WG489613
Chromium	mg/kg	65.8	30.0	50	71.6*	75-125	L469778-04	WG489613
Copper	mg/kg	63.3	19.0	50	88.6	75-125	L469778-04	WG489613
Lead	mg/kg	58.4	22.0	50	72.8*	75-125	L469778-04	WG489613
Nickel	mg/kg	56.8	20.0	50	73.6*	75-125	L469778-04	WG489613
Selenium	mg/kg	47.6	0	50	95.2	75-125	L469778-04	WG489613
Silver	mg/kg	44.4	0	50	88.8	75-125	L469778-04	WG489613
Zinc	mg/kg	88.0	47.0	50	82.0	75-125	L469778-04	WG489613
Barium	mg/kg	7740	12000	50	0*	75-125	L469778-04	WG489613
1-Methylnaphthalene	mg/kg	0.0320	0.000995	.033	93.9	19-131	L469682-05	WG489632
2-Chloronaphthalene	mg/kg	0.0276	0	.033	83.7	38-117	L469682-05	WG489632
2-Methylnaphthalene	mg/kg	0.0364	0.00149	.033	106.	18-125	L469682-05	WG489632
Acenaphthene	mg/kg	0.0257	0	.033	77.9	31-120	L469682-05	WG489632
Acenaphthylene	mg/kg	0.0249	0	.033	75.3	34-116	L469682-05	WG489632
Anthracene	mg/kg	0.0320	0	.033	97.0	32-131	L469682-05	WG489632
Benzo(a)anthracene	mg/kg	0.0331	0	.033	100.	32-131	L469682-05	WG489632
Benzo(a)pyrene	mg/kg	0.0312	0	.033	94.5	28-130	L469682-05	WG489632
Benzo(b)fluoranthene	mg/kg	0.0328	0	.033	99.4	37-130	L469682-05	WG489632
Benzo(g,h,i)perylene	mg/kg	0.0344	0	.033	104.	10-134	L469682-05	WG489632
Benzo(k)fluoranthene	mg/kg	0.0273	0	.033	82.7	31-129	L469682-05	WG489632
Chrysene	mg/kg	0.0302	0	.033	91.5	25-137	L469682-05	WG489632
Dibenz(a,h)anthracene	mg/kg	0.0282	0	.033	85.3	20-134	L469682-05	WG489632
Fluoranthene	mg/kg	0.0326	0	.033	98.7	27-138	L469682-05	WG489632
Fluorene	mg/kg	0.0327	0	.033	99.1	26-136	L469682-05	WG489632
Indeno(1,2,3-cd)pyrene	mg/kg	0.0279	0	.033	84.5	16-135	L469682-05	WG489632
Naphthalene	mg/kg	0.0290	0	.033	87.8	22-121	L469682-05	WG489632
Phenanthrene	mg/kg	0.0402	0	.033	122.	27-133	L469682-05	WG489632
Pyrene	mg/kg	0.0362	0	.033	110.	22-133	L469682-05	WG489632
2-Fluorobiphenyl					83.65	21-120		WG489632
Nitrobenzene-d5					86.08	33-114		WG489632
p-Terphenyl-d14					119.6	18-142		WG489632

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Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Mercury	mg/kg	0.271	0.263	73.6	70-130	3.00	20	L469778-03	WG489553
Benzene	mg/kg	0.125	0.108	100.	16-143	15.3	31	L469764-01	WG489679
Ethylbenzene	mg/kg	0.122	0.106	98.0	12-137	14.9	36	L469764-01	WG489679
Toluene	mg/kg	0.126	0.108	100.	12-136	15.4	32	L469764-01	WG489679
Total Xylenes	mg/kg	0.362	0.328	96.6	10-138	10.0	36	L469764-01	WG489679
4-Bromofluorobenzene				85.69	59-140				WG489679
Dibromofluoromethane				99.39	63-139				WG489679
Toluene-d8				103.0	84-116				WG489679
a,a,a-Trifluorotoluene				103.9	80-118				WG489679
TPH (GC/FID) Low Fraction	mg/kg	15.7	16.6	20.0*	55-109	5.82	20	L469686-04	WG489537
a,a,a-Trifluorotoluene(FID)				90.61	59-128				WG489537
Chromium,Hexavalent	mg/kg	0.560	0.880	0.560*	50-150	44.4*	20	L469764-01	WG489641
TPH (GC/FID) High Fraction	ppm	39.2	38.3	57.6	50-150	2.22	20	L469878-02	WG489699
o-Terphenyl				88.10	50-150				WG489699
Arsenic	mg/kg	52.3	50.6	93.4	75-125	3.30	20	L469778-04	WG489613
Cadmium	mg/kg	41.7	40.0	82.5	75-125	4.16	20	L469778-04	WG489613
Chromium	mg/kg	68.0	65.8	76.0	75-125	3.29	20	L469778-04	WG489613
Copper	mg/kg	65.1	63.3	92.2	75-125	2.80	20	L469778-04	WG489613
Lead	mg/kg	52.3	58.4	60.6*	75-125	11.0	20	L469778-04	WG489613
Nickel	mg/kg	60.2	56.8	80.4	75-125	5.81	20	L469778-04	WG489613
Selenium	mg/kg	51.9	47.6	104.	75-125	8.64	20	L469778-04	WG489613
Silver	mg/kg	45.0	44.4	90.0	75-125	1.34	20	L469778-04	WG489613
Zinc	mg/kg	101.	88.0	108.	75-125	13.8	20	L469778-04	WG489613
Barium	mg/kg	6510	7740	0*	75-125	17.3	20	L469778-04	WG489613
1-Methylnaphthalene	mg/kg	0.0322	0.0320	94.5	19-131	0.544	30	L469682-05	WG489632
2-Chloronaphthalene	mg/kg	0.0280	0.0276	84.8	38-117	1.34	26	L469682-05	WG489632
2-Methylnaphthalene	mg/kg	0.0336	0.0364	97.4	18-125	7.90	29	L469682-05	WG489632
Acenaphthene	mg/kg	0.0286	0.0257	86.7	31-120	10.7	30	L469682-05	WG489632
Acenaphthylene	mg/kg	0.0284	0.0249	86.0	34-116	13.2	29	L469682-05	WG489632
Anthracene	mg/kg	0.0298	0.0320	90.3	32-131	7.21	26	L469682-05	WG489632
Benzo(a)anthracene	mg/kg	0.0304	0.0331	92.2	32-131	8.46	31	L469682-05	WG489632
Benzo(a)pyrene	mg/kg	0.0281	0.0312	85.1	28-130	10.5	28	L469682-05	WG489632
Benzo(b)fluoranthene	mg/kg	0.0288	0.0328	87.3	37-130	12.9	41	L469682-05	WG489632
Benzo(g,h,i)perylene	mg/kg	0.0274	0.0344	83.0	10-134	22.8	26	L469682-05	WG489632
Benzo(k)fluoranthene	mg/kg	0.0264	0.0273	79.9	31-129	3.45	42	L469682-05	WG489632
Chrysene	mg/kg	0.0277	0.0302	84.0	25-137	8.52	22	L469682-05	WG489632
Dibenz(a,h)anthracene	mg/kg	0.0276	0.0282	83.5	20-134	2.11	25	L469682-05	WG489632
Fluoranthene	mg/kg	0.0304	0.0326	92.0	27-138	6.97	35	L469682-05	WG489632
Fluorene	mg/kg	0.0305	0.0327	92.4	26-136	7.00	30	L469682-05	WG489632
Indeno(1,2,3-cd)pyrene	mg/kg	0.0266	0.0279	80.5	16-135	4.79	26	L469682-05	WG489632
Naphthalene	mg/kg	0.0282	0.0290	85.3	22-121	2.81	30	L469682-05	WG489632
Phenanthrene	mg/kg	0.0346	0.0402	105.	27-133	15.1	36	L469682-05	WG489632
Pyrene	mg/kg	0.0307	0.0362	93.1	22-133	16.4	33	L469682-05	WG489632
2-Fluorobiphenyl				96.15	21-120				WG489632
Nitrobenzene-d5				115.3*	33-114				WG489632
p-Terphenyl-d14				132.9	18-142				WG489632

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Batch number /Run number / Sample number cross reference

WG489681: R1297088: L469764-01 02 03 04
WG489553: R1297154: L469764-01 02 03 04
WG489679: R1297629: L469764-01 02 03 04
WG489537: R1297950: L469764-01 02 03 04
WG489641: R1298390: L469764-01 02 03 04
WG489699: R1298632: L469764-01 02 03 04
WG489613: R1298708: L469764-01 02 03 04
WG489632: R1298729: L469764-01 04
WG489869: R1298731: L469764-01 02 03 04
WG489871: R1298749: L469764-01 02 03 04
WG489646: R1300670: L469764-01 02 03 04
WG490295: R1302610: L469764-02 03

* * 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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EnCana Oil & Gas Inc. - CO
Chris Hines
2717 County Road 215, Suite 100

Parachute, CO 81635

Quality Assurance Report
Level II

L469764

12065 Lebanon Rd.
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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

July 28, 2010

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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Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

Report Summary

Sunday June 12, 2011

Report Number: L519113

Samples Received: 06/03/11

Client Project:

Description: G35 Pit North

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:

T. Alan Harvill , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

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

Chris Hines
 EnCana Oil & Gas Inc. - CO
 2717 County Road 215, Suite 100
 Parachute, CO 81635

June 12, 2011

Date Received : June 03, 2011
 Description : G35 Pit North
 Sample ID : G35-PITN1-060211 10-12 IN
 Collected By : Brennen Graff
 Collection Date : 06/02/11 09:35

ESC Sample # : L519113-01
 Site ID : G35
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	3.2	1.0	mg/kg	6010B	06/09/11	1
TPH (GC/FID) Low Fraction	1.8	0.50	mg/kg	8015D/GRO	06/05/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	99.2		% Rec.	602/8015	06/05/11	5
TPH (GC/FID) High Fraction	1700	80.	mg/kg	3546/DRO	06/10/11	20
Surrogate recovery(%) o-Terphenyl	0.00		% Rec.	3546/DRO	06/10/11	20

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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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

June 12, 2011

Date Received : June 03, 2011
Description : G35 Pit North
Sample ID : G35-PITN2-060211 10-12 IN
Collected By : Brennen Graff
Collection Date : 06/02/11 09:45

ESC Sample # : L519113-02
Site ID : G35
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	11.	1.0	mg/kg	6010B	06/09/11	1
TPH (GC/FID) Low Fraction	2.4	0.50	mg/kg	8015D/GRO	06/05/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	100.		% Rec.	602/8015	06/05/11	5
TPH (GC/FID) High Fraction	1700	80.	mg/kg	3546/DRO	06/10/11	20
Surrogate recovery(%) o-Terphenyl	0.00		% Rec.	3546/DRO	06/10/11	20

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

June 12, 2011

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

Date Received : June 03, 2011
Description : G35 Pit North
Sample ID : G35-PITN3-060211 10-12 IN
Collected By : Brennen Graff
Collection Date : 06/02/11 09:50

ESC Sample # : L519113-03
Site ID : G35
Project # :

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Rows include Arsenic, TPH (GC/FID) Low Fraction, Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID), TPH (GC/FID) High Fraction, Surrogate recovery(%) o-Terphenyl.

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

June 12, 2011

Date Received : June 03, 2011
Description : G35 Pit North
Sample ID : G35-PITN4-060211 10-12 IN
Collected By : Brennen Graff
Collection Date : 06/02/11 09:55

ESC Sample # : L519113-04
Site ID : G35
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	2.5	1.0	mg/kg	6010B	06/09/11	1
TPH (GC/FID) Low Fraction	1.3	0.50	mg/kg	8015D/GRO	06/05/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	99.9		% Rec.	602/8015	06/05/11	5
TPH (GC/FID) High Fraction	360	40.	mg/kg	3546/DRO	06/10/11	10
Surrogate recovery(%) o-Terphenyl	51.8		% Rec.	3546/DRO	06/10/11	10

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

June 12, 2011

Date Received : June 03, 2011
Description : G35 Pit North
Sample ID : G35-PITN5-060211 10-12 IN
Collected By : Brennen Graff
Collection Date : 06/02/11 10:00

ESC Sample # : L519113-05
Site ID : G35
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	5.4	1.0	mg/kg	6010B	06/09/11	1
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	06/05/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	100.		% Rec.	602/8015	06/05/11	5
TPH (GC/FID) High Fraction	79.	4.0	mg/kg	3546/DRO	06/10/11	1
Surrogate recovery(%) o-Terphenyl	50.3		% Rec.	3546/DRO	06/10/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L519113-01	WG539037	SAMP	o-Terphenyl	R1718634	J7
L519113-02	WG539037	SAMP	o-Terphenyl	R1718634	J7
L519113-03	WG539037	SAMP	o-Terphenyl	R1718634	J7
L519113-05	WG539037	SAMP	TPH (GC/FID) High Fraction	R1718634	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 limits cannot be evaluated; surrogates were diluted out

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
06/12/11 at 16:56:43

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L519113-01 Account: ENCANACO Received: 06/03/11 09:00 Due Date: 06/10/11 00:00 RPT Date: 06/12/11 16:56
Sample: L519113-02 Account: ENCANACO Received: 06/03/11 09:00 Due Date: 06/10/11 00:00 RPT Date: 06/12/11 16:56
Sample: L519113-03 Account: ENCANACO Received: 06/03/11 09:00 Due Date: 06/10/11 00:00 RPT Date: 06/12/11 16:56
Sample: L519113-04 Account: ENCANACO Received: 06/03/11 09:00 Due Date: 06/10/11 00:00 RPT Date: 06/12/11 16:56
Sample: L519113-05 Account: ENCANACO Received: 06/03/11 09:00 Due Date: 06/10/11 00:00 RPT Date: 06/12/11 16:56



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 Chris Hines
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Quality Assurance Report
 Level II

L519113

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Tax I.D. 62-0814289

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June 12, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	< .1	mg/kg			WG538875	06/05/11 01:45
		% Rec.	100.8	59-128	WG538875	06/05/11 01:45
Arsenic	< 1	mg/kg			WG539032	06/09/11 13:19
TPH (GC/FID) High Fraction o-Terphenyl	< 4	ppm			WG539037	06/10/11 07:50
		% Rec.	77.61	50-150	WG539037	06/10/11 07:50

Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
Arsenic	mg/kg	8.10	6.40	23.7*	20	L519270-03	WG539032

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	mg/kg	5.5	6.19	113.	67-135	WG538875
				106.4	59-128	WG538875
Arsenic	mg/kg	192	174.	90.6	78.6-120.8	WG539032
TPH (GC/FID) High Fraction o-Terphenyl	ppm	60	52.4	87.4	50-150	WG539037
				76.83	50-150	WG539037

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	mg/kg	5.98	6.19	109.	67-135	3.52	20	WG538875
				105.7	59-128			WG538875
TPH (GC/FID) High Fraction o-Terphenyl	ppm	45.1	52.4	75.0	50-150	15.1	20	WG539037
				67.20	50-150			WG539037

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	mg/kg	19.6	0	5.5	71.2	55-109	L519063-01	WG538875
					106.4	59-128		WG538875
Arsenic	mg/kg	55.4	6.40	50	98.0	75-125	L519270-03	WG539032
TPH (GC/FID) High Fraction o-Terphenyl	ppm	127.	79.0	60	80.7	50-150	L519113-05	WG539037
					49.98*	50-150		WG539037

Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	mg/kg	17.1	19.6	62.1	55-109	13.7	20	L519063-01	WG538875
				105.4	59-128				WG538875
Arsenic	mg/kg	53.1	55.4	93.4	75-125	4.24	20	L519270-03	WG539032

* 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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June 12, 2011

Table with columns: Analyte, Units, MSD, Matrix Spike, Duplicate, Ref, %Rec, Limit, RPD, Limit Ref, Samp, Batch. Rows include TPH (GC/FID) High Fraction and o-Terphenyl.

Batch number /Run number / Sample number cross reference

WG538875: R1713449: L519113-01 02 03 04 05
WG539032: R1717558: L519113-01 02 03 04 05
WG539037: R1718634: L519113-01 02 03 04 05

* * 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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June 12, 2011

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Est. 1970

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

Report Summary

Sunday June 12, 2011

Report Number: L519120

Samples Received: 06/03/11

Client Project:

Description: G35 Pit South

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:

T. Alan Harvill , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

June 12, 2011

Date Received : June 03, 2011
Description : G35 Pit South
Sample ID : G35-PITS1-060211 10-12 IN
Collected By : Brennen Graff
Collection Date : 06/02/11 10:15

ESC Sample # : L519120-01

Site ID : G35

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	4.8	1.0	mg/kg	6010B	06/08/11	1
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	06/05/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	98.0		% Rec.	602/8015	06/05/11	5
TPH (GC/FID) High Fraction	310	20.	mg/kg	3546/DRO	06/10/11	5
Surrogate recovery(%) o-Terphenyl	54.0		% Rec.	3546/DRO	06/10/11	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

June 12, 2011

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

Date Received : June 03, 2011
Description : G35 Pit South
Sample ID : G35-PITS2-060211 10-12 IN
Collected By : Brennen Graff
Collection Date : 06/02/11 10:25

ESC Sample # : L519120-02
Site ID : G35
Project # :

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Rows include Arsenic, TPH (GC/FID) Low Fraction, Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID), TPH (GC/FID) High Fraction, and Surrogate recovery(%) o-Terphenyl.

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

June 12, 2011

Date Received : June 03, 2011
Description : G35 Pit South
Sample ID : G35-PITS3-060211 10-12 IN
Collected By : Brennen Graff
Collection Date : 06/02/11 10:27

ESC Sample # : L519120-03
Site ID : G35
Project # :

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Rows include Arsenic, TPH (GC/FID) Low Fraction, Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID), TPH (GC/FID) High Fraction, and Surrogate recovery(%) o-Terphenyl.

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

June 12, 2011

Date Received : June 03, 2011
Description : G35 Pit South
Sample ID : G35-PITS4-060211 10-12 IN
Collected By : Brennen Graff
Collection Date : 06/02/11 10:30

ESC Sample # : L519120-04
Site ID : G35
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	9.0	1.0	mg/kg	6010B	06/08/11	1
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	06/05/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	97.5		% Rec.	602/8015	06/05/11	5
TPH (GC/FID) High Fraction	710	80.	mg/kg	3546/DRO	06/10/11	20
Surrogate recovery(%) o-Terphenyl	0.00		% Rec.	3546/DRO	06/10/11	20

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

June 12, 2011

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

Date Received : June 03, 2011
Description : G35 Pit South
Sample ID : G35-PITS5-060211 10-12 IN
Collected By : Brennen Graff
Collection Date : 06/02/11 10:35

ESC Sample # : L519120-05
Site ID : G35
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	4.1	1.0	mg/kg	6010B	06/08/11	1
TPH (GC/FID) Low Fraction	0.68	0.50	mg/kg	8015D/GRO	06/06/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	98.0		% Rec.	602/8015	06/06/11	5
TPH (GC/FID) High Fraction	2300	80.	mg/kg	3546/DRO	06/10/11	20
Surrogate recovery(%) o-Terphenyl	0.00		% Rec.	3546/DRO	06/10/11	20

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L519120-04	WG539037	SAMP	o-Terphenyl	R1718634	J7
L519120-05	WG539037	SAMP	o-Terphenyl	R1718634	J7

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J7	Surrogate recovery limits cannot be evaluated; surrogates were diluted out

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
06/12/11 at 16:56:26

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L519120-01 Account: ENCANACO Received: 06/03/11 09:00 Due Date: 06/10/11 00:00 RPT Date: 06/12/11 16:56
Sample: L519120-02 Account: ENCANACO Received: 06/03/11 09:00 Due Date: 06/10/11 00:00 RPT Date: 06/12/11 16:56
Sample: L519120-03 Account: ENCANACO Received: 06/03/11 09:00 Due Date: 06/10/11 00:00 RPT Date: 06/12/11 16:56
Sample: L519120-04 Account: ENCANACO Received: 06/03/11 09:00 Due Date: 06/10/11 00:00 RPT Date: 06/12/11 16:56
Sample: L519120-05 Account: ENCANACO Received: 06/03/11 09:00 Due Date: 06/10/11 00:00 RPT Date: 06/12/11 16:56



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EnCana Oil & Gas Inc. - CO
 Chris Hines
 2717 County Road 215, Suite 100
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Quality Assurance Report
 Level II

L519120

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June 12, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	< .1	mg/kg	98.60	59-128	WG539003	06/05/11 20:02
Arsenic	< 1	mg/kg			WG539153	06/08/11 14:31
TPH (GC/FID) High Fraction o-Terphenyl	< 4	ppm	77.61	50-150	WG539037	06/10/11 07:50

Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
Arsenic	mg/kg	3.70	0	NA	20	L519214-08	WG539153

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	mg/kg	5.5	6.13	111. 99.96	67-135 59-128	WG539003 WG539003
Arsenic	mg/kg	192	175.	91.1	78.6-120.8	WG539153
TPH (GC/FID) High Fraction o-Terphenyl	ppm	60	52.4	87.4 76.83	50-150 50-150	WG539037 WG539037

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	mg/kg	6.21	6.13	113. 100.5	67-135 59-128	1.34	20	WG539003 WG539003
TPH (GC/FID) High Fraction o-Terphenyl	ppm	45.1	52.4	75.0 67.20	50-150 50-150	15.1	20	WG539037 WG539037

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	mg/kg	26.9	0	5.5	97.7 97.41	55-109 59-128	L519114-02	WG539003 WG539003
Arsenic	mg/kg	45.9	0	25	91.8	75-125	L519214-08	WG539153
TPH (GC/FID) High Fraction o-Terphenyl	ppm	127.	79.0	60	80.7 49.98*	50-150 50-150	L519113-05	WG539037 WG539037

Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	mg/kg	24.9	26.9	90.5 96.94	55-109 59-128	7.62	20	L519114-02	WG539003 WG539003
Arsenic	mg/kg	49.5	45.9	99.0	75-125	7.55	20	L519214-08	WG539153

* 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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Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
TPH (GC/FID) High Fraction	ppm	93.7	127.	24.5*	50-150	30.5*	20	L519113-05	WG539037
o-Terphenyl				50.99	50-150				WG539037

Batch number /Run number / Sample number cross reference

WG539003: R1712891: L519120-01 02 03 04 05
 WG539153: R1716089 R1716090: L519120-02 03 04 05 01
 WG539037: R1718634: L519120-01 02 03 04 05

* * 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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June 12, 2011

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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Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

Report Summary

Wednesday July 06, 2011

Report Number: L523960

Samples Received: 07/01/11

Client Project:

Description: G35 Pit X

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:

Jared Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

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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

July 06, 2011

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

ESC Sample # : L523960-01

Date Received : July 01, 2011
Description : G35 Pit X

Site ID : G35

Sample ID : G35 PITX SP-S END B-062911

Project # :

Collected By : Bob Stockton
Collection Date : 06/29/11 14:56

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	0.94	0.50	mg/kg	8015D/GRO	07/01/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	103.		% Rec.	602/8015	07/01/11	5
TPH (GC/FID) High Fraction	140	80.	mg/kg	3546/DRO	07/05/11	20
Surrogate recovery(%) o-Terphenyl	0.00		% Rec.	3546/DRO	07/05/11	20

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

July 06, 2011

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
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Date Received : July 01, 2011
Description : G35 Pit X
Sample ID : G35 PITX SP-S CENTER B-062911
Collected By : Bob Stockton
Collection Date : 06/29/11 15:11

ESC Sample # : L523960-02
Site ID : G35
Project # :

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Rows include TPH (GC/FID) Low Fraction, Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID), TPH (GC/FID) High Fraction, and Surrogate recovery(%) o-Terphenyl.

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Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

July 06, 2011

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

Date Received : July 01, 2011
Description : G35 Pit X
Sample ID : G35 PITX SP-N END B-062911
Collected By : Bob Stockton
Collection Date : 06/29/11 15:23

ESC Sample # : L523960-03
Site ID : G35
Project # :

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Rows include TPH (GC/FID) Low Fraction, Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID), TPH (GC/FID) High Fraction, and Surrogate recovery(%) o-Terphenyl.

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REPORT OF ANALYSIS

July 06, 2011

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

Date Received : July 01, 2011
Description : G35 Pit X
Sample ID : G35 PITX NP-S END B-062911
Collected By : Bob Stockton
Collection Date : 06/29/11 15:52

ESC Sample # : L523960-04
Site ID : G35
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	07/01/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	102.		% Rec.	602/8015	07/01/11	5
TPH (GC/FID) High Fraction	81.	80.	mg/kg	3546/DRO	07/05/11	20
Surrogate recovery(%) o-Terphenyl	0.00		% Rec.	3546/DRO	07/05/11	20

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REPORT OF ANALYSIS

July 06, 2011

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

Date Received : July 01, 2011
Description : G35 Pit X
Sample ID : G35 PITX NP-E W-062911
Collected By : Bob Stockton
Collection Date : 06/29/11 15:32

ESC Sample # : L523960-05
Site ID : G35
Project # :

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Rows include TPH (GC/FID) Low Fraction, Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID), TPH (GC/FID) High Fraction, and Surrogate recovery(%) o-Terphenyl.

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Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

July 06, 2011

Chris Hines
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2717 County Road 215, Suite 100
Parachute, CO 81635

ESC Sample # : L523960-06

Date Received : July 01, 2011
Description : G35 Pit X

Site ID : G35

Sample ID : G35 PITX NP-CENTER B-062911

Project # :

Collected By : Bob Stockton
Collection Date : 06/29/11 15:38

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	07/02/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	102.		% Rec.	602/8015	07/02/11	5
TPH (GC/FID) High Fraction	11.	4.0	mg/kg	3546/DRO	07/05/11	1
Surrogate recovery(%) o-Terphenyl	68.9		% Rec.	3546/DRO	07/05/11	1

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REPORT OF ANALYSIS

July 06, 2011

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

Date Received : July 01, 2011
Description : G35 Pit X
Sample ID : G35 PITX NP-N END B-062911
Collected By : Bob Stockton
Collection Date : 06/29/11 12:45

ESC Sample # : L523960-07
Site ID : G35
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	2.3	0.50	mg/kg	8015D/GRO	07/02/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	103.		% Rec.	602/8015	07/02/11	5
TPH (GC/FID) High Fraction	230	4.0	mg/kg	3546/DRO	07/05/11	1
Surrogate recovery(%) o-Terphenyl	52.3		% Rec.	3546/DRO	07/05/11	1

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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L523960-01	WG543793	SAMP	o-Terphenyl	R1750069	J7
L523960-02	WG543793	SAMP	o-Terphenyl	R1750069	J7
L523960-04	WG543793	SAMP	o-Terphenyl	R1750069	J7

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J7	Surrogate recovery limits cannot be evaluated; surrogates were diluted out

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- 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.



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July 06, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG543739	07/01/11 17:17
a,a,a-Trifluorotoluene(FID)		% Rec.	104.4	59-128	WG543739	07/01/11 17:17
TPH (GC/FID) High Fraction	< 4	ppm			WG543793	07/05/11 10:34
o-Terphenyl		% Rec.	72.82	50-150	WG543793	07/05/11 10:34

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
TPH (GC/FID) Low Fraction	mg/kg	5.5	6.01	109.	67-135	WG543739
a,a,a-Trifluorotoluene(FID)				110.4	59-128	WG543739
TPH (GC/FID) High Fraction	ppm	60	47.0	78.3	50-150	WG543793
o-Terphenyl				69.02	50-150	WG543793

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
TPH (GC/FID) Low Fraction	mg/kg	6.11	6.01	111.	67-135	1.63	20	WG543739
a,a,a-Trifluorotoluene(FID)				111.2	59-128			WG543739
TPH (GC/FID) High Fraction	ppm	47.8	47.0	80.0	50-150	1.79	25	WG543793
o-Terphenyl				71.59	50-150			WG543793

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
TPH (GC/FID) Low Fraction	mg/kg	14.7	1.50	5.5	47.9*	55-109	L523945-01	WG543739
a,a,a-Trifluorotoluene(FID)					101.0	59-128		WG543739
TPH (GC/FID) High Fraction	ppm	42.4	7.90	60	57.4	50-150	L523369-01	WG543793
o-Terphenyl					67.30	50-150		WG543793

Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
TPH (GC/FID) Low Fraction	mg/kg	15.1	14.7	49.4*	55-109	2.84	20	L523945-01	WG543739
a,a,a-Trifluorotoluene(FID)				101.6	59-128				WG543739
TPH (GC/FID) High Fraction	ppm	42.7	42.4	58.1	50-150	0.882	25	L523369-01	WG543793
o-Terphenyl				69.00	50-150				WG543793

Batch number /Run number / Sample number cross reference

WG543739: R1748929: L523960-01 02 03 04 05 06 07
 WG543793: R1750069: L523960-01 02 03 04 05 06 07

* * 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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Chris Hines
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Quality Assurance Report
Level II

L523960

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July 06, 2011

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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Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

Report Summary

Thursday July 07, 2011

Report Number: L523962

Samples Received: 07/01/11

Client Project:

Description: G35 Spoil

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:

Jared Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

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

Chris Hines
 EnCana Oil & Gas Inc. - CO
 2717 County Road 215, Suite 100
 Parachute, CO 81635

July 07, 2011

Date Received : July 01, 2011
 Description : G35 Spoil
 Sample ID : G35-SPOIL-063011
 Collected By : Bob Stockton
 Collection Date : 06/30/11 13:25

ESC Sample # : L523962-01
 Site ID : G35
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	07/07/11	1
Chromium,Trivalent	32.	2.0	mg/kg	Calc.	07/03/11	1
ORP	49.		mV	2580	07/05/11	1
pH	5.9		su	9045D	07/02/11	1
Sodium Adsorption Ratio	18.			Calc.	07/03/11	1
Specific Conductance	160		umhos/cm	9050AMod	07/06/11	1
Mercury	0.065	0.020	mg/kg	7471	07/02/11	1
Arsenic	11.	1.0	mg/kg	6010B	07/03/11	1
Barium	7000	1.2	mg/kg	6010B	07/03/11	5
Cadmium	2.8	0.25	mg/kg	6010B	07/03/11	1
Chromium	32.	0.50	mg/kg	6010B	07/03/11	1
Copper	25.	1.0	mg/kg	6010B	07/03/11	1
Lead	17.	0.25	mg/kg	6010B	07/03/11	1
Nickel	21.	1.0	mg/kg	6010B	07/03/11	1
Selenium	BDL	5.0	mg/kg	6010B	07/03/11	5
Silver	BDL	0.50	mg/kg	6010B	07/03/11	1
Zinc	54.	1.5	mg/kg	6010B	07/03/11	1
TPH (GC/FID) Low Fraction	7.6	0.50	mg/kg	8015D/GRO	07/02/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	100.		% Rec.	602/8015	07/02/11	5
Methanol	BDL	0.10	mg/kg	8015M	07/03/11	1
Ethanol	BDL	0.10	mg/kg	8015M	07/03/11	1
Volatile Organics						
Acetone	BDL	0.25	mg/kg	8260B	07/04/11	5
Benzene	BDL	0.0050	mg/kg	8260B	07/04/11	5
Bromochloromethane	BDL	0.0050	mg/kg	8260B	07/04/11	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	07/04/11	5
Bromoform	BDL	0.0050	mg/kg	8260B	07/04/11	5
Bromomethane	BDL	0.025	mg/kg	8260B	07/04/11	5
Carbon disulfide	BDL	0.0050	mg/kg	8260B	07/04/11	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	07/04/11	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	07/04/11	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	07/04/11	5
Chloroethane	BDL	0.025	mg/kg	8260B	07/04/11	5

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L523962-01 (PH) - 5.9@20.4c
 L523962-01 (SV8270PAHSIM) - Dilution due to matrix



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REPORT OF ANALYSIS

July 07, 2011

Chris Hines
 EnCana Oil & Gas Inc. - CO
 2717 County Road 215, Suite 100
 Parachute, CO 81635

ESC Sample # : L523962-01

Date Received : July 01, 2011
 Description : G35 Spoil

Site ID : G35

Sample ID : G35-SPOIL-063011

Project # :

Collected By : Bob Stockton
 Collection Date : 06/30/11 13:25

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloroform	BDL	0.025	mg/kg	8260B	07/04/11	5
Chloromethane	BDL	0.012	mg/kg	8260B	07/04/11	5
Cyclohexane	BDL	0.0050	mg/kg	8260B	07/04/11	5
1,2-Dibromo-3-Chloropropane	BDL	0.025	mg/kg	8260B	07/04/11	5
1,2-Dibromoethane	BDL	0.0050	mg/kg	8260B	07/04/11	5
Dichlorodifluoromethane	BDL	0.025	mg/kg	8260B	07/04/11	5
1,1-Dichloroethane	BDL	0.0050	mg/kg	8260B	07/04/11	5
1,2-Dichloroethane	BDL	0.0050	mg/kg	8260B	07/04/11	5
1,2-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	07/04/11	5
1,3-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	07/04/11	5
1,4-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	07/04/11	5
1,1-Dichloroethene	BDL	0.0050	mg/kg	8260B	07/04/11	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	07/04/11	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	07/04/11	5
1,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	07/04/11	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	07/04/11	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	07/04/11	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	07/04/11	5
n-Hexane	BDL	0.050	mg/kg	8260B	07/04/11	5
2-Hexanone	BDL	0.050	mg/kg	8260B	07/04/11	5
Isopropylbenzene	BDL	0.050	mg/kg	8260B	07/04/11	5
2-Butanone (MEK)	BDL	0.050	mg/kg	8260B	07/04/11	5
Methyl Acetate	BDL	0.10	mg/kg	8260B	07/04/11	5
Methyl Cyclohexane	0.039	0.0050	mg/kg	8260B	07/04/11	5
Methylene Chloride	0.033	0.025	mg/kg	8260B	07/04/11	5
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/kg	8260B	07/04/11	5
Methyl tert-butyl ether	BDL	0.0050	mg/kg	8260B	07/04/11	5
Styrene	BDL	0.0050	mg/kg	8260B	07/04/11	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	07/04/11	5
Tetrachloroethene	BDL	0.0050	mg/kg	8260B	07/04/11	5
Toluene	BDL	0.025	mg/kg	8260B	07/04/11	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	07/04/11	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	07/04/11	5
1,1,1-Trichloroethane	BDL	0.0050	mg/kg	8260B	07/04/11	5
1,1,2-Trichloroethane	BDL	0.0050	mg/kg	8260B	07/04/11	5
Trichloroethene	BDL	0.0050	mg/kg	8260B	07/04/11	5
Trichlorofluoromethane	BDL	0.025	mg/kg	8260B	07/04/11	5
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0050	mg/kg	8260B	07/04/11	5
Vinyl chloride	BDL	0.0050	mg/kg	8260B	07/04/11	5
o-Xylene	BDL	0.0050	mg/kg	8260B	07/04/11	5
m&p-Xylene	BDL	0.010	mg/kg	8260B	07/04/11	5
Xylenes, Total	BDL	0.015	mg/kg	8260B	07/04/11	5
Surrogate Recovery						
Toluene-d8	106.		% Rec.	8260B	07/04/11	5

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L523962-01 (PH) - 5.9@20.4c
 L523962-01 (SV8270PAHSIM) - Dilution due to matrix



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REPORT OF ANALYSIS

July 07, 2011

Chris Hines
 EnCana Oil & Gas Inc. - CO
 2717 County Road 215, Suite 100
 Parachute, CO 81635

ESC Sample # : L523962-01

Date Received : July 01, 2011
 Description : G35 Spoil

Site ID : G35

Sample ID : G35-SPOIL-063011

Project # :

Collected By : Bob Stockton
 Collection Date : 06/30/11 13:25

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Dibromofluoromethane	106.		% Rec.	8260B	07/04/11	5
a,a,a-Trifluorotoluene	99.9		% Rec.	8260B	07/04/11	5
4-Bromofluorobenzene	135.		% Rec.	8260B	07/04/11	5
TPH (GC/FID) High Fraction	1200	80.	mg/kg	3546/DRO	07/05/11	20
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	07/05/11	20
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.12	mg/kg	8270C-SIM	07/05/11	20
Acenaphthene	BDL	0.12	mg/kg	8270C-SIM	07/05/11	20
Acenaphthylene	BDL	0.12	mg/kg	8270C-SIM	07/05/11	20
Benzo(a)anthracene	BDL	0.12	mg/kg	8270C-SIM	07/05/11	20
Benzo(a)pyrene	BDL	0.12	mg/kg	8270C-SIM	07/05/11	20
Benzo(b)fluoranthene	BDL	0.12	mg/kg	8270C-SIM	07/05/11	20
Benzo(g,h,i)perylene	BDL	0.12	mg/kg	8270C-SIM	07/05/11	20
Benzo(k)fluoranthene	BDL	0.12	mg/kg	8270C-SIM	07/05/11	20
Chrysene	BDL	0.12	mg/kg	8270C-SIM	07/05/11	20
Dibenz(a,h)anthracene	BDL	0.12	mg/kg	8270C-SIM	07/05/11	20
Fluoranthene	BDL	0.12	mg/kg	8270C-SIM	07/05/11	20
Fluorene	0.15	0.12	mg/kg	8270C-SIM	07/05/11	20
Indeno(1,2,3-cd)pyrene	BDL	0.12	mg/kg	8270C-SIM	07/05/11	20
Naphthalene	BDL	0.12	mg/kg	8270C-SIM	07/05/11	20
Phenanthrene	BDL	0.12	mg/kg	8270C-SIM	07/05/11	20
Pyrene	BDL	0.12	mg/kg	8270C-SIM	07/05/11	20
1-Methylnaphthalene	0.15	0.12	mg/kg	8270C-SIM	07/05/11	20
2-Methylnaphthalene	0.26	0.12	mg/kg	8270C-SIM	07/05/11	20
2-Chloronaphthalene	BDL	0.12	mg/kg	8270C-SIM	07/05/11	20
Surrogate Recovery						
Nitrobenzene-d5	0.00		% Rec.	8270C-SIM	07/05/11	20
2-Fluorobiphenyl	0.00		% Rec.	8270C-SIM	07/05/11	20
p-Terphenyl-d14	0.00		% Rec.	8270C-SIM	07/05/11	20

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: 07/07/11 16:37 Printed: 07/07/11 16:44

L523962-01 (PH) - 5.9@20.4c

L523962-01 (SV8270PAHSIM) - Dilution due to matrix

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L523962-01	WG543894	SAMP	Selenium	R1749329	O
	WG544038	SAMP	Nitrobenzene-d5	R1750051	J7
	WG544038	SAMP	2-Fluorobiphenyl	R1750051	J7
	WG544038	SAMP	p-Terphenyl-d14	R1750051	J7
	WG544021	SAMP	Styrene	R1750849	J4
	WG543793	SAMP	o-Terphenyl	R1750069	J7

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J4	The associated batch QC was outside the established quality control range for accuracy.
J7	Surrogate recovery limits cannot be evaluated; surrogates were diluted out
0	(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.

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.



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 Chris Hines
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Quality Assurance Report
 Level II

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Est. 1970

July 07, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG543739	07/01/11 17:17
a,a,a-Trifluorotoluene(FID)		% Rec.	104.4	59-128	WG543739	07/01/11 17:17
Ethanol	< .1	mg/kg			WG543988	07/03/11 13:47
Methanol	< .1	mg/kg			WG543988	07/03/11 13:47
Mercury	< .02	mg/kg			WG543669	07/02/11 10:04
Arsenic	< 1	mg/kg			WG543894	07/03/11 17:01
Barium	< .25	mg/kg			WG543894	07/03/11 17:01
Cadmium	< .25	mg/kg			WG543894	07/03/11 17:01
Chromium	< .5	mg/kg			WG543894	07/03/11 17:01
Copper	< 1	mg/kg			WG543894	07/03/11 17:01
Lead	< .25	mg/kg			WG543894	07/03/11 17:01
Nickel	< 1	mg/kg			WG543894	07/03/11 17:01
Selenium	< 1	mg/kg			WG543894	07/03/11 17:01
Silver	< .5	mg/kg			WG543894	07/03/11 17:01
Zinc	< 1.5	mg/kg			WG543894	07/03/11 17:01
pH	4.80	su			WG543807	07/02/11 13:41
1-Methylnaphthalene	< .006	mg/kg			WG544038	07/05/11 11:27
2-Chloronaphthalene	< .006	mg/kg			WG544038	07/05/11 11:27
2-Methylnaphthalene	< .006	mg/kg			WG544038	07/05/11 11:27
Acenaphthene	< .006	mg/kg			WG544038	07/05/11 11:27
Acenaphthylene	< .006	mg/kg			WG544038	07/05/11 11:27
Anthracene	< .006	mg/kg			WG544038	07/05/11 11:27
Benzo(a)anthracene	< .006	mg/kg			WG544038	07/05/11 11:27
Benzo(a)pyrene	< .006	mg/kg			WG544038	07/05/11 11:27
Benzo(b)fluoranthene	< .006	mg/kg			WG544038	07/05/11 11:27
Benzo(g,h,i)perylene	< .006	mg/kg			WG544038	07/05/11 11:27
Benzo(k)fluoranthene	< .006	mg/kg			WG544038	07/05/11 11:27
Chrysene	< .006	mg/kg			WG544038	07/05/11 11:27
Dibenz(a,h)anthracene	< .006	mg/kg			WG544038	07/05/11 11:27
Fluoranthene	< .006	mg/kg			WG544038	07/05/11 11:27
Fluorene	< .006	mg/kg			WG544038	07/05/11 11:27
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG544038	07/05/11 11:27
Naphthalene	< .006	mg/kg			WG544038	07/05/11 11:27
Phenanthrene	< .006	mg/kg			WG544038	07/05/11 11:27
Pyrene	< .006	mg/kg			WG544038	07/05/11 11:27
2-Fluorobiphenyl		% Rec.	85.54	21-120	WG544038	07/05/11 11:27
Nitrobenzene-d5		% Rec.	83.85	33-114	WG544038	07/05/11 11:27
p-Terphenyl-d14		% Rec.	90.58	18-142	WG544038	07/05/11 11:27
TPH (GC/FID) High Fraction	< 4	ppm			WG543793	07/05/11 10:34
o-Terphenyl		% Rec.	72.82	50-150	WG543793	07/05/11 10:34
1,1,1-Trichloroethane	< .001	mg/kg			WG544021	07/04/11 05:48
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG544021	07/04/11 05:48
1,1,2-Trichloroethane	< .001	mg/kg			WG544021	07/04/11 05:48
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/kg			WG544021	07/04/11 05:48
1,1-Dichloroethane	< .001	mg/kg			WG544021	07/04/11 05:48

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YOUR LAB OF CHOICE

EnCana Oil & Gas Inc. - CO
 Chris Hines
 2717 County Road 215, Suite 100
 Parachute, CO 81635

Quality Assurance Report
 Level II

L523962

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 07, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
1,1-Dichloroethene	< .001	mg/kg			WG544021	07/04/11 05:48
1,2,3-Trichlorobenzene	< .001	mg/kg			WG544021	07/04/11 05:48
1,2,4-Trichlorobenzene	< .001	mg/kg			WG544021	07/04/11 05:48
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG544021	07/04/11 05:48
1,2-Dibromoethane	< .001	mg/kg			WG544021	07/04/11 05:48
1,2-Dichlorobenzene	< .001	mg/kg			WG544021	07/04/11 05:48
1,2-Dichloroethane	< .001	mg/kg			WG544021	07/04/11 05:48
1,2-Dichloropropane	< .001	mg/kg			WG544021	07/04/11 05:48
1,3-Dichlorobenzene	< .001	mg/kg			WG544021	07/04/11 05:48
1,4-Dichlorobenzene	< .001	mg/kg			WG544021	07/04/11 05:48
2-Butanone (MEK)	< .01	mg/kg			WG544021	07/04/11 05:48
2-Hexanone	< .01	mg/kg			WG544021	07/04/11 05:48
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG544021	07/04/11 05:48
Acetone	< .05	mg/kg			WG544021	07/04/11 05:48
Benzene	< .001	mg/kg			WG544021	07/04/11 05:48
Bromochloromethane	< .001	mg/kg			WG544021	07/04/11 05:48
Bromodichloromethane	< .001	mg/kg			WG544021	07/04/11 05:48
Bromoform	< .001	mg/kg			WG544021	07/04/11 05:48
Bromomethane	< .005	mg/kg			WG544021	07/04/11 05:48
Carbon disulfide	< .001	mg/kg			WG544021	07/04/11 05:48
Carbon tetrachloride	< .001	mg/kg			WG544021	07/04/11 05:48
Chlorobenzene	< .001	mg/kg			WG544021	07/04/11 05:48
Chlorodibromomethane	< .001	mg/kg			WG544021	07/04/11 05:48
Chloroethane	< .005	mg/kg			WG544021	07/04/11 05:48
Chloroform	< .005	mg/kg			WG544021	07/04/11 05:48
Chloromethane	< .0025	mg/kg			WG544021	07/04/11 05:48
cis-1,2-Dichloroethene	< .001	mg/kg			WG544021	07/04/11 05:48
cis-1,3-Dichloropropene	< .001	mg/kg			WG544021	07/04/11 05:48
Cyclohexane	< .001	mg/kg			WG544021	07/04/11 05:48
Dichlorodifluoromethane	< .005	mg/kg			WG544021	07/04/11 05:48
Ethylbenzene	< .001	mg/kg			WG544021	07/04/11 05:48
Isopropylbenzene	< .001	mg/kg			WG544021	07/04/11 05:48
m&p-Xylene	< .002	mg/kg			WG544021	07/04/11 05:48
Methyl Acetate	< .02	mg/kg			WG544021	07/04/11 05:48
Methyl Cyclohexane	< .001	mg/kg			WG544021	07/04/11 05:48
Methyl tert-butyl ether	< .001	mg/kg			WG544021	07/04/11 05:48
Methylene Chloride	< .005	mg/kg			WG544021	07/04/11 05:48
n-Hexane	< .01	mg/kg			WG544021	07/04/11 05:48
o-Xylene	< .001	mg/kg			WG544021	07/04/11 05:48
Styrene	< .001	mg/kg			WG544021	07/04/11 05:48
Tetrachloroethene	< .001	mg/kg			WG544021	07/04/11 05:48
Toluene	< .005	mg/kg			WG544021	07/04/11 05:48
trans-1,2-Dichloroethene	< .001	mg/kg			WG544021	07/04/11 05:48
trans-1,3-Dichloropropene	< .001	mg/kg			WG544021	07/04/11 05:48
Trichloroethene	< .001	mg/kg			WG544021	07/04/11 05:48
Trichlorofluoromethane	< .005	mg/kg			WG544021	07/04/11 05:48
Vinyl chloride	< .001	mg/kg			WG544021	07/04/11 05:48
Xylenes, Total	< .003	mg/kg			WG544021	07/04/11 05:48
4-Bromofluorobenzene		% Rec.	102.6	59-140	WG544021	07/04/11 05:48
Dibromofluoromethane		% Rec.	104.9	63-139	WG544021	07/04/11 05:48
Toluene-d8		% Rec.	105.2	84-116	WG544021	07/04/11 05:48
a,a,a-Trifluorotoluene		% Rec.	100.0	80-118	WG544021	07/04/11 05:48
Specific Conductance	0.560	umhos/cm			WG544228	07/06/11 18:17
Chromium,Hexavalent	< 2	mg/kg			WG543815	07/07/11 12:08

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Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
Mercury	mg/kg	0	0	0	20	L523833-19	WG543669
Arsenic	mg/kg	8.60	10.2	17.4	20	L523884-01	WG543894
Barium	mg/kg	37.0	40.0	8.33	20	L523884-01	WG543894
Chromium	mg/kg	8.00	9.29	14.3	20	L523884-01	WG543894
Copper	mg/kg	25.0	28.4	11.9	20	L523884-01	WG543894
Lead	mg/kg	78.0	54.2	36.1*	20	L523884-01	WG543894
Nickel	mg/kg	12.0	14.6	16.3	20	L523884-01	WG543894
Silver	mg/kg	0	0.0552	NA	20	L523884-01	WG543894
Zinc	mg/kg	39.0	51.4	26.4*	20	L523884-01	WG543894
Cadmium	mg/kg	0	0	0	20	L523884-01	WG543894
Selenium	mg/kg	16.0	0	NA	20	L523884-01	WG543894
pH	su	7.10	7.10	0	1	L523401-01	WG543807
pH	su	0	0	0	1	L523794-01	WG543807
ORP	mV	84.0	82.0	2.41	20	L523950-01	WG544078
ORP	mV	110.	110.	0.913	20	L524165-08	WG544078
Specific Conductance	umhos/cm	2500	2700	9.22	20	L523742-01	WG544228
Specific Conductance	umhos/cm	1800	1800	2.19	20	L524092-01	WG544228
Chromium,Hexavalent	mg/kg	0	0	0	20	L523961-01	WG543815
Chromium,Hexavalent	mg/kg	0	0	0	20	L523604-01	WG543815

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
TPH (GC/FID) Low Fraction	mg/kg	5.5	6.01	109.	67-135	WG543739
a,a,a-Trifluorotoluene(FID)				110.4	59-128	WG543739
Ethanol	mg/kg	.5	0.459	91.9	70-130	WG543988
Methanol	mg/kg	.5	0.407	81.4	70-130	WG543988
Mercury	mg/kg	8.77	9.39	107.	71.6-127.7	WG543669
Arsenic	mg/kg	192	184.	95.8	78.6-120.8	WG543894
Barium	mg/kg	420	412.	98.1	78.8-121.4	WG543894
Cadmium	mg/kg	70.1	66.6	95.0	78.5-121.5	WG543894
Chromium	mg/kg	168	166.	98.8	80.4-120.2	WG543894
Copper	mg/kg	122	126.	103.	81.6-119.7	WG543894
Lead	mg/kg	113	110.	97.3	77.3-122.1	WG543894
Nickel	mg/kg	74.1	71.5	96.5	78.8-121.2	WG543894
Selenium	mg/kg	176	165.	93.8	75.6-125.0	WG543894
Silver	mg/kg	115	110.	95.7	66-133.9	WG543894
Zinc	mg/kg	437	439.	100.	78.5-121.7	WG543894
pH	su	6.3	6.30	100.	97.98-102.02	WG543807
ORP	mV	229	220.	96.1	95.6-104.37	WG544078

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Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
1-Methylnaphthalene	mg/kg	.033	0.0288	87.3	41-110	WG544038
2-Chloronaphthalene	mg/kg	.033	0.0296	89.8	43-109	WG544038
2-Methylnaphthalene	mg/kg	.033	0.0285	86.5	38-104	WG544038
Acenaphthene	mg/kg	.033	0.0281	85.1	48-103	WG544038
Acenaphthylene	mg/kg	.033	0.0288	87.3	43-106	WG544038
Anthracene	mg/kg	.033	0.0298	90.2	51-110	WG544038
Benzo(a)anthracene	mg/kg	.033	0.0278	84.1	38-126	WG544038
Benzo(a)pyrene	mg/kg	.033	0.0310	93.9	47-118	WG544038
Benzo(b)fluoranthene	mg/kg	.033	0.0321	97.3	47-118	WG544038
Benzo(g,h,i)perylene	mg/kg	.033	0.0303	91.7	40-125	WG544038
Benzo(k)fluoranthene	mg/kg	.033	0.0297	90.0	45-121	WG544038
Chrysene	mg/kg	.033	0.0311	94.2	35-135	WG544038
Dibenz(a,h)anthracene	mg/kg	.033	0.0296	89.7	41-124	WG544038
Fluoranthene	mg/kg	.033	0.0314	95.1	50-114	WG544038
Fluorene	mg/kg	.033	0.0291	88.2	49-109	WG544038
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.0301	91.2	40-126	WG544038
Naphthalene	mg/kg	.033	0.0276	83.7	36-100	WG544038
Phenanthrene	mg/kg	.033	0.0298	90.3	46-108	WG544038
Pyrene	mg/kg	.033	0.0294	89.0	30-136	WG544038
2-Fluorobiphenyl				88.82	33-114	WG544038
Nitrobenzene-d5				86.70	21-120	WG544038
p-Terphenyl-d14				89.98	18-142	WG544038
TPH (GC/FID) High Fraction	ppm	60	47.0	78.3	50-150	WG543793
o-Terphenyl				69.02	50-150	WG543793
1,1,1-Trichloroethane	mg/kg	.025	0.0268	107.	62-135	WG544021
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0255	102.	74-129	WG544021
1,1,2-Trichloroethane	mg/kg	.025	0.0251	101.	77-124	WG544021
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	.025	0.0314	126.	49-155	WG544021
1,1-Dichloroethane	mg/kg	.025	0.0279	112.	61-134	WG544021
1,1-Dichloroethene	mg/kg	.025	0.0298	119.	53-136	WG544021
1,2,3-Trichlorobenzene	mg/kg	.025	0.0246	98.4	62-146	WG544021
1,2,4-Trichlorobenzene	mg/kg	.025	0.0264	105.	61-148	WG544021
1,2-Dibromo-3-Chloropropane	mg/kg	.025	0.0218	87.1	61-134	WG544021
1,2-Dibromoethane	mg/kg	.025	0.0255	102.	76-127	WG544021
1,2-Dichlorobenzene	mg/kg	.025	0.0242	96.9	77-123	WG544021
1,2-Dichloroethane	mg/kg	.025	0.0243	97.4	58-141	WG544021
1,2-Dichloropropane	mg/kg	.025	0.0259	104.	71-128	WG544021
1,3-Dichlorobenzene	mg/kg	.025	0.0243	97.3	71-132	WG544021
1,4-Dichlorobenzene	mg/kg	.025	0.0245	98.1	72-123	WG544021
2-Butanone (MEK)	mg/kg	.125	0.137	109.	51-131	WG544021
2-Hexanone	mg/kg	.125	0.126	101.	62-145	WG544021
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.134	107.	61-143	WG544021
Acetone	mg/kg	.125	0.138	110.	44-140	WG544021
Benzene	mg/kg	.025	0.0277	111.	65-128	WG544021
Bromochloromethane	mg/kg	.025	0.0281	113.	73-130	WG544021
Bromodichloromethane	mg/kg	.025	0.0248	99.4	66-126	WG544021
Bromoform	mg/kg	.025	0.0229	91.5	64-139	WG544021
Bromomethane	mg/kg	.025	0.0227	90.7	41-175	WG544021
Carbon disulfide	mg/kg	.025	0.0279	112.	36-161	WG544021
Carbon tetrachloride	mg/kg	.025	0.0268	107.	60-140	WG544021
Chlorobenzene	mg/kg	.025	0.0243	97.0	75-125	WG544021
Chlorodibromomethane	mg/kg	.025	0.0245	97.8	72-137	WG544021
Chloroethane	mg/kg	.025	0.0233	93.3	44-159	WG544021
Chloroform	mg/kg	.025	0.0271	108.	63-123	WG544021
Chloromethane	mg/kg	.025	0.0227	90.8	42-149	WG544021

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Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
cis-1,2-Dichloroethene	mg/kg	.025	0.0276	111.	71-129	WG544021
cis-1,3-Dichloropropene	mg/kg	.025	0.0261	104.	73-132	WG544021
Dichlorodifluoromethane	mg/kg	.025	0.0235	94.1	26-186	WG544021
Ethylbenzene	mg/kg	.025	0.0250	99.8	74-128	WG544021
Isopropylbenzene	mg/kg	.025	0.0268	107.	73-130	WG544021
m&p-Xylene	mg/kg	.05	0.0496	99.3	73-127	WG544021
Methyl tert-butyl ether	mg/kg	.025	0.0299	120.	44-148	WG544021
Methylene Chloride	mg/kg	.025	0.0286	114.	57-129	WG544021
n-Hexane	mg/kg	.025	0.0235	94.0	28-169	WG544021
o-Xylene	mg/kg	.025	0.0243	97.4	75-129	WG544021
Styrene	mg/kg	.025	0.0187	74.8*	76-133	WG544021
Tetrachloroethene	mg/kg	.025	0.0238	95.4	65-135	WG544021
Toluene	mg/kg	.025	0.0254	102.	70-120	WG544021
trans-1,2-Dichloroethene	mg/kg	.025	0.0268	107.	61-133	WG544021
trans-1,3-Dichloropropene	mg/kg	.025	0.0245	98.0	70-135	WG544021
Trichloroethene	mg/kg	.025	0.0247	98.7	71-126	WG544021
Trichlorofluoromethane	mg/kg	.025	0.0243	97.3	52-147	WG544021
Vinyl chloride	mg/kg	.025	0.0237	94.8	50-151	WG544021
Xylenes, Total	mg/kg	.075	0.0740	98.6	74-127	WG544021
4-Bromofluorobenzene				100.6	59-140	WG544021
Dibromofluoromethane				106.7	63-139	WG544021
Toluene-d8				104.9	84-116	WG544021
a,a,a-Trifluorotoluene				101.5	80-118	WG544021
Specific Conductance	umhos/cm	445	440.	98.9	85-115	WG544228
Chromium,Hexavalent	mg/kg	132	90.6	68.6	50-150	WG543815

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
TPH (GC/FID) Low Fraction	mg/kg	6.11	6.01	111.	67-135	1.63	20	WG543739
a,a,a-Trifluorotoluene(FID)				111.2	59-128			WG543739
Ethanol	mg/kg	0.513	0.459	102.	70-130	11.0	20	WG543988
Methanol	mg/kg	0.456	0.407	91.0	70-130	11.5	20	WG543988
pH	su	6.30	6.30	100.	97.98-102.02	0	20	WG543807
ORP	mV	220.	220.	96.0	95.6-104.37	0	20	WG544078
1-Methylnaphthalene	mg/kg	0.0249	0.0288	75.0	41-110	14.6	24	WG544038
2-Chloronaphthalene	mg/kg	0.0249	0.0296	76.0	43-109	17.2	21	WG544038
2-Methylnaphthalene	mg/kg	0.0244	0.0285	74.0	38-104	15.6	24	WG544038
Acenaphthene	mg/kg	0.0254	0.0281	77.0	48-103	9.93	20	WG544038
Acenaphthylene	mg/kg	0.0257	0.0288	78.0	43-106	11.3	20	WG544038
Anthracene	mg/kg	0.0278	0.0298	84.0	51-110	6.67	22	WG544038
Benzo(a)anthracene	mg/kg	0.0261	0.0278	79.0	38-126	6.16	20	WG544038
Benzo(a)pyrene	mg/kg	0.0288	0.0310	87.0	47-118	7.47	20	WG544038
Benzo(b)fluoranthene	mg/kg	0.0279	0.0321	84.0	47-118	14.1	29	WG544038
Benzo(g,h,i)perylene	mg/kg	0.0283	0.0303	86.0	40-125	6.75	20	WG544038
Benzo(k)fluoranthene	mg/kg	0.0301	0.0297	91.0	45-121	1.21	31	WG544038
Chrysene	mg/kg	0.0290	0.0311	88.0	35-135	6.98	20	WG544038

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Analyte	Units	Laboratory Control		Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref	%Rec					
Dibenz(a,h)anthracene	mg/kg	0.0279	0.0296	85.0		41-124	5.77	20	WG544038
Fluoranthene	mg/kg	0.0292	0.0314	88.0		50-114	7.29	20	WG544038
Fluorene	mg/kg	0.0263	0.0291	80.0		49-109	10.2	19	WG544038
Indeno(1,2,3-cd)pyrene	mg/kg	0.0280	0.0301	85.0		40-126	7.21	20	WG544038
Naphthalene	mg/kg	0.0232	0.0276	70.0		36-100	17.5	24	WG544038
Phenanthrene	mg/kg	0.0271	0.0298	82.0		46-108	9.58	21	WG544038
Pyrene	mg/kg	0.0280	0.0294	85.0		30-136	4.93	20	WG544038
2-Fluorobiphenyl				79.03		33-114			WG544038
Nitrobenzene-d5				72.19		21-120			WG544038
p-Terphenyl-d14				85.89		18-142			WG544038
TPH (GC/FID) High Fraction	ppm	47.8	47.0	80.0		50-150	1.79	25	WG543793
o-Terphenyl				71.59		50-150			WG543793
1,1,1-Trichloroethane	mg/kg	0.0277	0.0268	111.		62-135	3.15	20	WG544021
1,1,2,2-Tetrachloroethane	mg/kg	0.0268	0.0255	107.		74-129	4.79	20	WG544021
1,1,2-Trichloroethane	mg/kg	0.0267	0.0251	107.		77-124	6.00	20	WG544021
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0327	0.0314	131.		49-155	4.05	20	WG544021
1,1-Dichloroethane	mg/kg	0.0285	0.0279	114.		61-134	2.10	20	WG544021
1,1-Dichloroethene	mg/kg	0.0305	0.0298	122.		53-136	2.32	20	WG544021
1,2,3-Trichlorobenzene	mg/kg	0.0253	0.0246	101.		62-146	2.67	20	WG544021
1,2,4-Trichlorobenzene	mg/kg	0.0268	0.0264	107.		61-148	1.54	20	WG544021
1,2-Dibromo-3-Chloropropane	mg/kg	0.0239	0.0218	96.0		61-134	9.49	21	WG544021
1,2-Dibromoethane	mg/kg	0.0271	0.0255	108.		76-127	6.29	20	WG544021
1,2-Dichlorobenzene	mg/kg	0.0250	0.0242	100.		77-123	3.28	20	WG544021
1,2-Dichloroethane	mg/kg	0.0253	0.0243	101.		58-141	4.05	20	WG544021
1,2-Dichloropropane	mg/kg	0.0270	0.0259	108.		71-128	3.98	20	WG544021
1,3-Dichlorobenzene	mg/kg	0.0257	0.0243	103.		71-132	5.71	20	WG544021
1,4-Dichlorobenzene	mg/kg	0.0255	0.0245	102.		72-123	3.84	20	WG544021
2-Butanone (MEK)	mg/kg	0.145	0.137	116.		51-131	5.48	25	WG544021
2-Hexanone	mg/kg	0.134	0.126	107.		62-145	6.12	23	WG544021
4-Methyl-2-pentanone (MIBK)	mg/kg	0.145	0.134	116.		61-143	8.07	23	WG544021
Acetone	mg/kg	0.148	0.138	118.		44-140	7.01	25	WG544021
Benzene	mg/kg	0.0286	0.0277	114.		65-128	3.38	20	WG544021
Bromochloromethane	mg/kg	0.0289	0.0281	115.		73-130	2.56	20	WG544021
Bromodichloromethane	mg/kg	0.0258	0.0248	103.		66-126	3.79	20	WG544021
Bromoform	mg/kg	0.0252	0.0229	101.		64-139	9.67	20	WG544021
Bromomethane	mg/kg	0.0223	0.0227	89.0		41-175	1.63	20	WG544021
Carbon disulfide	mg/kg	0.0289	0.0279	116.		36-161	3.75	20	WG544021
Carbon tetrachloride	mg/kg	0.0278	0.0268	111.		60-140	3.49	20	WG544021
Chlorobenzene	mg/kg	0.0252	0.0243	101.		75-125	3.66	20	WG544021
Chlorodibromomethane	mg/kg	0.0267	0.0245	107.		72-137	8.80	20	WG544021
Chloroethane	mg/kg	0.0237	0.0233	95.0		44-159	1.72	20	WG544021
Chloroform	mg/kg	0.0289	0.0271	116.		63-123	6.31	20	WG544021
Chloromethane	mg/kg	0.0234	0.0227	94.0		42-149	3.06	20	WG544021
cis-1,2-Dichloroethene	mg/kg	0.0290	0.0276	116.		71-129	4.70	20	WG544021
cis-1,3-Dichloropropene	mg/kg	0.0272	0.0261	109.		73-132	4.16	20	WG544021
Dichlorodifluoromethane	mg/kg	0.0244	0.0235	98.0		26-186	3.82	22	WG544021
Ethylbenzene	mg/kg	0.0266	0.0250	106.		74-128	6.33	20	WG544021
Isopropylbenzene	mg/kg	0.0284	0.0268	114.		73-130	6.04	20	WG544021
m&p-Xylene	mg/kg	0.0515	0.0496	103.		73-127	3.65	20	WG544021
Methyl tert-butyl ether	mg/kg	0.0319	0.0299	128.		44-148	6.52	20	WG544021
Methylene Chloride	mg/kg	0.0298	0.0286	119.		57-129	4.29	20	WG544021
n-Hexane	mg/kg	0.0245	0.0235	98.0		28-169	4.35	20	WG544021
o-Xylene	mg/kg	0.0251	0.0243	100.		75-129	2.94	20	WG544021
Styrene	mg/kg	0.0200	0.0187	80.0		76-133	6.89	20	WG544021
Tetrachloroethene	mg/kg	0.0252	0.0238	101.		65-135	5.69	20	WG544021

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L523962

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

Tax I.D. 62-0814289

Est. 1970

July 07, 2011

Analyte	Units	Laboratory Control		Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref	%Rec					
Toluene	mg/kg	0.0261	0.0254	104.		70-120	2.51	20	WG544021
trans-1,2-Dichloroethene	mg/kg	0.0281	0.0268	112.		61-133	4.98	20	WG544021
trans-1,3-Dichloropropene	mg/kg	0.0261	0.0245	104.		70-135	6.15	20	WG544021
Trichloroethene	mg/kg	0.0261	0.0247	104.		71-126	5.43	20	WG544021
Trichlorofluoromethane	mg/kg	0.0252	0.0243	101.		52-147	3.47	20	WG544021
Vinyl chloride	mg/kg	0.0251	0.0237	100.		50-151	5.57	20	WG544021
Xylenes, Total	mg/kg	0.0765	0.0740	102.		74-127	3.42	20	WG544021
4-Bromofluorobenzene				103.2		59-140			WG544021
Dibromofluoromethane				107.5		63-139			WG544021
Toluene-d8				105.4		84-116			WG544021
a,a,a-Trifluorotoluene				100.9		80-118			WG544021
Specific Conductance	umhos/	440.	440.	99.0		85-115	0	20	WG544228
Chromium,Hexavalent	mg/kg	107.	90.6	81.0		50-150	16.6	20	WG543815

Analyte	Units	Matrix Spike			% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res	TV				
TPH (GC/FID) Low Fraction	mg/kg	14.7	1.50	5.5	47.9*	55-109	L523945-01	WG543739
a,a,a-Trifluorotoluene(FID)					101.0	59-128		WG543739
Ethanol	mg/kg	0.524	0	.5	105.	70-130	L523962-01	WG543988
Methanol	mg/kg	0.659	0	.5	132.*	70-130	L523962-01	WG543988
Mercury	mg/kg	0.240	0	.25	96.0	70-130	L523833-19	WG543669
Arsenic	mg/kg	57.8	10.2	50	95.2	75-125	L523884-01	WG543894
Barium	mg/kg	80.6	40.0	50	81.2	75-125	L523884-01	WG543894
Chromium	mg/kg	55.2	9.29	50	91.8	75-125	L523884-01	WG543894
Copper	mg/kg	77.7	28.4	50	98.6	75-125	L523884-01	WG543894
Lead	mg/kg	103.	54.2	50	97.6	75-125	L523884-01	WG543894
Nickel	mg/kg	58.5	14.6	50	87.8	75-125	L523884-01	WG543894
Silver	mg/kg	51.3	0.0552	50	102.	75-125	L523884-01	WG543894
Zinc	mg/kg	82.4	51.4	50	62.0*	75-125	L523884-01	WG543894
Cadmium	mg/kg	50.6	0	10	101.	75-125	L523884-01	WG543894
Selenium	mg/kg	67.6	0	10	135.*	75-125	L523884-01	WG543894
TPH (GC/FID) High Fraction	ppm	42.4	0	60	70.6	50-150	L523369-01	WG543793
o-Terphenyl					67.30	50-150		WG543793
1,1,1-Trichloroethane	mg/kg	0.0237	0	.025	95.0	23-147	L524123-02	WG544021
1,1,2,2-Tetrachloroethane	mg/kg	0.0230	0	.025	92.1	18-150	L524123-02	WG544021
1,1,2-Trichloroethane	mg/kg	0.0231	0	.025	92.5	35-140	L524123-02	WG544021
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0256	0	.025	102.	10-145	L524123-02	WG544021
1,1-Dichloroethane	mg/kg	0.0261	0	.025	104.	24-148	L524123-02	WG544021
1,1-Dichloroethene	mg/kg	0.0272	0	.025	109.	10-149	L524123-02	WG544021
1,2,3-Trichlorobenzene	mg/kg	0.0132	0	.025	52.7	10-129	L524123-02	WG544021
1,2,4-Trichlorobenzene	mg/kg	0.0143	0	.025	57.0	10-119	L524123-02	WG544021
1,2-Dibromo-3-Chloropropane	mg/kg	0.0193	0	.025	77.1	19-145	L524123-02	WG544021
1,2-Dibromoethane	mg/kg	0.0232	0	.025	92.9	24-145	L524123-02	WG544021
1,2-Dichlorobenzene	mg/kg	0.0164	0	.025	65.6	12-130	L524123-02	WG544021

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Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
1,2-Dichloroethane	mg/kg	0.0231	0	.025	92.2	21-155	L524123-02	WG544021
1,2-Dichloropropane	mg/kg	0.0239	0	.025	95.6	28-144	L524123-02	WG544021
1,3-Dichlorobenzene	mg/kg	0.0158	0	.025	63.2	10-129	L524123-02	WG544021
1,4-Dichlorobenzene	mg/kg	0.0168	0	.025	67.1	10-121	L524123-02	WG544021
2-Butanone (MEK)	mg/kg	0.139	0	.125	111.	21-143	L524123-02	WG544021
2-Hexanone	mg/kg	0.121	0	.125	96.5	22-151	L524123-02	WG544021
4-Methyl-2-pentanone (MIBK)	mg/kg	0.134	0	.125	107.	31-151	L524123-02	WG544021
Acetone	mg/kg	0.143	0	.125	115.	13-158	L524123-02	WG544021
Benzene	mg/kg	0.0250	0	.025	99.9	16-143	L524123-02	WG544021
Bromochloromethane	mg/kg	0.0269	0	.025	108.	25-152	L524123-02	WG544021
Bromodichloromethane	mg/kg	0.0223	0	.025	89.4	27-139	L524123-02	WG544021
Bromoform	mg/kg	0.0197	0	.025	79.0	21-144	L524123-02	WG544021
Bromomethane	mg/kg	0.0205	0	.025	82.1	0-180	L524123-02	WG544021
Carbon disulfide	mg/kg	0.0245	0	.025	97.9	10-156	L524123-02	WG544021
Carbon tetrachloride	mg/kg	0.0225	0	.025	90.2	12-149	L524123-02	WG544021
Chlorobenzene	mg/kg	0.0191	0	.025	76.5	17-134	L524123-02	WG544021
Chlorodibromomethane	mg/kg	0.0225	0	.025	89.8	28-147	L524123-02	WG544021
Chloroethane	mg/kg	0.0227	0	.025	91.0	0-172	L524123-02	WG544021
Chloroform	mg/kg	0.0257	0	.025	103.	28-138	L524123-02	WG544021
Chloromethane	mg/kg	0.0215	0	.025	86.2	10-158	L524123-02	WG544021
cis-1,2-Dichloroethene	mg/kg	0.0257	0	.025	103.	21-147	L524123-02	WG544021
cis-1,3-Dichloropropene	mg/kg	0.0240	0	.025	95.9	17-145	L524123-02	WG544021
Dichlorodifluoromethane	mg/kg	0.0212	0	.025	84.6	0-192	L524123-02	WG544021
Ethylbenzene	mg/kg	0.0190	0	.025	75.9	12-137	L524123-02	WG544021
Isopropylbenzene	mg/kg	0.0184	0	.025	73.7	14-134	L524123-02	WG544021
m&p-Xylene	mg/kg	0.0377	0.00146	.05	72.5	10-135	L524123-02	WG544021
Methyl tert-butyl ether	mg/kg	0.0302	0	.025	121.	21-157	L524123-02	WG544021
Methylene Chloride	mg/kg	0.0259	0	.025	103.	12-149	L524123-02	WG544021
n-Hexane	mg/kg	0.0143	0	.025	57.2	10-129	L524123-02	WG544021
o-Xylene	mg/kg	0.0197	0.00142	.025	73.0	14-140	L524123-02	WG544021
Styrene	mg/kg	0.0142	0	.025	57.0	10-140	L524123-02	WG544021
Tetrachloroethene	mg/kg	0.0173	0	.025	69.1	10-131	L524123-02	WG544021
Toluene	mg/kg	0.0214	0	.025	85.6	12-136	L524123-02	WG544021
trans-1,2-Dichloroethene	mg/kg	0.0241	0	.025	96.4	10-143	L524123-02	WG544021
trans-1,3-Dichloropropene	mg/kg	0.0224	0	.025	89.5	16-147	L524123-02	WG544021
Trichloroethene	mg/kg	0.0211	0	.025	84.3	10-155	L524123-02	WG544021
Trichlorofluoromethane	mg/kg	0.0211	0	.025	84.4	10-154	L524123-02	WG544021
Vinyl chloride	mg/kg	0.0226	0	.025	90.2	10-159	L524123-02	WG544021
Xylenes, Total	mg/kg	0.0574	0	.075	76.5	10-138	L524123-02	WG544021
4-Bromofluorobenzene					99.07	59-140		WG544021
Dibromofluoromethane					109.4	63-139		WG544021
Toluene-d8					106.2	84-116		WG544021
a,a,a-Trifluorotoluene					100.2	80-118		WG544021
1-Methylnaphthalene	mg/kg	0.0268	0	.033	81.3	19-131	L523592-02	WG544038
2-Chloronaphthalene	mg/kg	0.0353	0	.033	107.	38-117	L523592-02	WG544038
2-Methylnaphthalene	mg/kg	0.0312	0	.033	94.5	18-125	L523592-02	WG544038
Acenaphthene	mg/kg	0.0270	0	.033	81.9	31-120	L523592-02	WG544038
Acenaphthylene	mg/kg	0.0378	0	.033	115.	34-116	L523592-02	WG544038
Anthracene	mg/kg	0.0384	0	.033	116.	32-131	L523592-02	WG544038
Benzo(a)anthracene	mg/kg	0.0333	0	.033	101.	32-131	L523592-02	WG544038
Benzo(a)pyrene	mg/kg	0.0305	0	.033	92.3	28-130	L523592-02	WG544038
Benzo(b)fluoranthene	mg/kg	0.0337	0	.033	102.	37-130	L523592-02	WG544038
Benzo(g,h,i)perylene	mg/kg	0.0299	0	.033	90.7	10-134	L523592-02	WG544038
Benzo(k)fluoranthene	mg/kg	0.0289	0	.033	87.7	31-129	L523592-02	WG544038
Chrysene	mg/kg	0.0360	0	.033	109.	25-137	L523592-02	WG544038
Dibenz(a,h)anthracene	mg/kg	0.0290	0	.033	88.0	20-134	L523592-02	WG544038
Fluoranthene	mg/kg	0.0281	0.0210	.033	21.6*	27-138	L523592-02	WG544038

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Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Fluorene	mg/kg	0.0370	0	.033	112.	26-136	L523592-02	WG544038
Indeno(1,2,3-cd)pyrene	mg/kg	0.0297	0	.033	90.2	16-135	L523592-02	WG544038
Naphthalene	mg/kg	0.0278	0	.033	84.4	22-121	L523592-02	WG544038
Phenanthrene	mg/kg	0.0363	0	.033	110.	27-133	L523592-02	WG544038
Pyrene	mg/kg	0.0922	0	.033	279.*	22-133	L523592-02	WG544038
2-Fluorobiphenyl					84.22	33-114		WG544038
Nitrobenzene-d5					95.25	21-120		WG544038
p-Terphenyl-d14					111.4	18-142		WG544038
Chromium,Hexavalent	mg/kg	11.7	0	20	58.5	50-150	L523669-05	WG543815

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit Ref	Samp	Batch
			Ref	%Rec					
TPH (GC/FID) Low Fraction	mg/kg	15.1	14.7	49.4*	55-109	2.84	20	L523945-01	WG543739
a,a,a-Trifluorotoluene(FID)				101.6	59-128				WG543739
Ethanol	mg/kg	0.501	0.524	100.	70-130	4.41	20	L523962-01	WG543988
Methanol	mg/kg	0.626	0.659	125.	70-130	5.11	20	L523962-01	WG543988
Mercury	mg/kg	0.244	0.240	97.6	70-130	1.65	20	L523833-19	WG543669
Arsenic	mg/kg	54.6	57.8	88.8	75-125	5.69	20	L523884-01	WG543894
Barium	mg/kg	79.8	80.6	79.6	75-125	0.998	20	L523884-01	WG543894
Chromium	mg/kg	54.9	55.2	91.2	75-125	0.545	20	L523884-01	WG543894
Copper	mg/kg	95.2	77.7	134.*	75-125	20.2*	20	L523884-01	WG543894
Lead	mg/kg	179.	103.	250.*	75-125	53.9*	20	L523884-01	WG543894
Nickel	mg/kg	58.1	58.5	87.0	75-125	0.686	20	L523884-01	WG543894
Silver	mg/kg	48.2	51.3	96.3	75-125	6.23	20	L523884-01	WG543894
Zinc	mg/kg	97.5	82.4	92.2	75-125	16.8	20	L523884-01	WG543894
Cadmium	mg/kg	51.6	50.6	103.	75-125	1.96	20	L523884-01	WG543894
Selenium	mg/kg	62.4	67.6	125.	75-125	8.00	20	L523884-01	WG543894
TPH (GC/FID) High Fraction	ppm	42.7	42.4	71.2	50-150	0.882	25	L523369-01	WG543793
o-Terphenyl				69.00	50-150				WG543793
1,1,1-Trichloroethane	mg/kg	0.0231	0.0237	92.3	23-147	2.84	32	L524123-02	WG544021
1,1,2,2-Tetrachloroethane	mg/kg	0.0222	0.0230	88.7	18-150	3.71	33	L524123-02	WG544021
1,1,2-Trichloroethane	mg/kg	0.0229	0.0231	91.5	35-140	1.06	29	L524123-02	WG544021
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0251	0.0256	100.	10-145	2.30	35	L524123-02	WG544021
1,1-Dichloroethane	mg/kg	0.0256	0.0261	102.	24-148	1.78	31	L524123-02	WG544021
1,1-Dichloroethene	mg/kg	0.0262	0.0272	105.	10-149	3.47	34	L524123-02	WG544021
1,2,3-Trichlorobenzene	mg/kg	0.0130	0.0132	52.1	10-129	1.15	43	L524123-02	WG544021
1,2,4-Trichlorobenzene	mg/kg	0.0139	0.0143	55.4	10-119	2.80	44	L524123-02	WG544021
1,2-Dibromo-3-Chloropropane	mg/kg	0.0192	0.0193	76.8	19-145	0.450	35	L524123-02	WG544021
1,2-Dibromoethane	mg/kg	0.0228	0.0232	91.1	24-145	1.88	31	L524123-02	WG544021
1,2-Dichlorobenzene	mg/kg	0.0165	0.0164	66.2	12-130	0.900	35	L524123-02	WG544021
1,2-Dichloroethane	mg/kg	0.0222	0.0231	88.7	21-155	3.89	29	L524123-02	WG544021
1,2-Dichloropropane	mg/kg	0.0229	0.0239	91.6	28-144	4.21	30	L524123-02	WG544021
1,3-Dichlorobenzene	mg/kg	0.0159	0.0158	63.8	10-129	0.930	38	L524123-02	WG544021
1,4-Dichlorobenzene	mg/kg	0.0166	0.0168	66.2	10-121	1.28	36	L524123-02	WG544021
2-Butanone (MEK)	mg/kg	0.135	0.139	108.	21-143	3.12	37	L524123-02	WG544021
2-Hexanone	mg/kg	0.117	0.121	93.4	22-151	3.28	38	L524123-02	WG544021

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Quality Assurance Report
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Tax I.D. 62-0814289

Est. 1970

July 07, 2011

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
4-Methyl-2-pentanone (MIBK)	mg/kg	0.134	0.134	107.	31-151	0.600	36	L524123-02	WG544021
Acetone	mg/kg	0.137	0.143	109.	13-158	4.84	34	L524123-02	WG544021
Benzene	mg/kg	0.0245	0.0250	97.8	16-143	2.07	31	L524123-02	WG544021
Bromochloromethane	mg/kg	0.0259	0.0269	104.	25-152	3.59	29	L524123-02	WG544021
Bromodichloromethane	mg/kg	0.0220	0.0223	87.9	27-139	1.61	30	L524123-02	WG544021
Bromoform	mg/kg	0.0192	0.0197	76.7	21-144	2.94	34	L524123-02	WG544021
Bromomethane	mg/kg	0.0200	0.0205	80.0	0-180	2.59	41	L524123-02	WG544021
Carbon disulfide	mg/kg	0.0238	0.0245	95.1	10-156	2.91	38	L524123-02	WG544021
Carbon tetrachloride	mg/kg	0.0219	0.0225	87.7	12-149	2.79	34	L524123-02	WG544021
Chlorobenzene	mg/kg	0.0194	0.0191	77.7	17-134	1.51	34	L524123-02	WG544021
Chlorodibromomethane	mg/kg	0.0212	0.0225	84.9	28-147	5.66	32	L524123-02	WG544021
Chloroethane	mg/kg	0.0205	0.0227	82.0	0-172	10.4	38	L524123-02	WG544021
Chloroform	mg/kg	0.0247	0.0257	99.0	28-138	3.74	30	L524123-02	WG544021
Chloromethane	mg/kg	0.0208	0.0215	83.2	10-158	3.52	35	L524123-02	WG544021
cis-1,2-Dichloroethene	mg/kg	0.0252	0.0257	101.	21-147	1.81	31	L524123-02	WG544021
cis-1,3-Dichloropropene	mg/kg	0.0232	0.0240	92.9	17-145	3.19	32	L524123-02	WG544021
Dichlorodifluoromethane	mg/kg	0.0203	0.0212	81.1	0-192	4.24	38	L524123-02	WG544021
Ethylbenzene	mg/kg	0.0194	0.0190	77.7	12-137	2.33	36	L524123-02	WG544021
Isopropylbenzene	mg/kg	0.0192	0.0184	76.7	14-134	3.91	37	L524123-02	WG544021
m&p-Xylene	mg/kg	0.0384	0.0377	73.8	10-135	1.80	37	L524123-02	WG544021
Methyl tert-butyl ether	mg/kg	0.0290	0.0302	116.	21-157	4.30	31	L524123-02	WG544021
Methylene Chloride	mg/kg	0.0253	0.0259	101.	12-149	2.12	31	L524123-02	WG544021
n-Hexane	mg/kg	0.0145	0.0143	58.1	10-129	1.58	42	L524123-02	WG544021
o-Xylene	mg/kg	0.0198	0.0197	73.6	14-140	0.670	35	L524123-02	WG544021
Styrene	mg/kg	0.0143	0.0142	57.2	10-140	0.370	35	L524123-02	WG544021
Tetrachloroethene	mg/kg	0.0177	0.0173	70.9	10-131	2.60	35	L524123-02	WG544021
Toluene	mg/kg	0.0212	0.0214	84.9	12-136	0.760	32	L524123-02	WG544021
trans-1,2-Dichloroethene	mg/kg	0.0240	0.0241	96.1	10-143	0.230	33	L524123-02	WG544021
trans-1,3-Dichloropropene	mg/kg	0.0215	0.0224	85.9	16-147	4.03	32	L524123-02	WG544021
Trichloroethene	mg/kg	0.0210	0.0211	84.2	10-155	0.120	33	L524123-02	WG544021
Trichlorofluoromethane	mg/kg	0.0206	0.0211	82.3	10-154	2.55	32	L524123-02	WG544021
Vinyl chloride	mg/kg	0.0218	0.0226	87.3	10-159	3.25	36	L524123-02	WG544021
Xylenes, Total	mg/kg	0.0582	0.0574	77.6	10-138	1.42	36	L524123-02	WG544021
4-Bromofluorobenzene				100.6	59-140				WG544021
Dibromofluoromethane				107.6	63-139				WG544021
Toluene-d8				105.7	84-116				WG544021
a,a,a-Trifluorotoluene				99.79	80-118				WG544021
1-Methylnaphthalene	mg/kg	0.0244	0.0268	74.0	19-131	9.40	30	L523592-02	WG544038
2-Chloronaphthalene	mg/kg	0.0296	0.0353	89.6	38-117	17.8	26	L523592-02	WG544038
2-Methylnaphthalene	mg/kg	0.0263	0.0312	79.6	18-125	17.1	29	L523592-02	WG544038
Acenaphthene	mg/kg	0.0245	0.0270	74.1	31-120	10.0	30	L523592-02	WG544038
Acenaphthylene	mg/kg	0.0316	0.0378	95.7	34-116	18.0	29	L523592-02	WG544038
Anthracene	mg/kg	0.0326	0.0384	98.7	32-131	16.4	26	L523592-02	WG544038
Benzo(a)anthracene	mg/kg	0.0300	0.0333	91.0	32-131	10.3	31	L523592-02	WG544038
Benzo(a)pyrene	mg/kg	0.0279	0.0305	84.6	28-130	8.68	28	L523592-02	WG544038
Benzo(b)fluoranthene	mg/kg	0.0291	0.0337	88.2	37-130	14.5	41	L523592-02	WG544038
Benzo(g,h,i)perylene	mg/kg	0.0282	0.0299	85.4	10-134	5.99	26	L523592-02	WG544038
Benzo(k)fluoranthene	mg/kg	0.0279	0.0289	84.6	31-129	3.65	42	L523592-02	WG544038
Chrysene	mg/kg	0.0322	0.0360	97.5	25-137	11.3	22	L523592-02	WG544038
Dibenz(a,h)anthracene	mg/kg	0.0269	0.0290	81.6	20-134	7.50	25	L523592-02	WG544038
Fluoranthene	mg/kg	0.0258	0.0281	14.4*	27-138	8.83	35	L523592-02	WG544038
Fluorene	mg/kg	0.0306	0.0370	92.8	26-136	18.7	30	L523592-02	WG544038
Indeno(1,2,3-cd)pyrene	mg/kg	0.0269	0.0297	81.5	16-135	10.1	26	L523592-02	WG544038
Naphthalene	mg/kg	0.0258	0.0278	78.1	22-121	7.71	30	L523592-02	WG544038
Phenanthrene	mg/kg	0.0344	0.0363	104.	27-133	5.38	36	L523592-02	WG544038
Pyrene	mg/kg	0.0709	0.0922	215.*	22-133	26.0	33	L523592-02	WG544038
2-Fluorobiphenyl				81.00	33-114				WG544038

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Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Nitrobenzene-d5				84.50	21-120				
p-Terphenyl-d14				98.80	18-142				
Chromium,Hexavalent	mg/kg	10.8	11.7	54.0	50-150	8.00	20	L523669-05	WG543815

Batch number /Run number / Sample number cross reference

WG543739: R1748929: L523962-01
 WG543988: R1748950: L523962-01
 WG543669: R1749134: L523962-01
 WG543894: R1749329: L523962-01
 WG543807: R1749609: L523962-01
 WG543937: R1749657: L523962-01
 WG544078: R1749997: L523962-01
 WG544038: R1750051: L523962-01
 WG543793: R1750069: L523962-01
 WG544021: R1750849: L523962-01
 WG544228: R1751493: L523962-01
 WG543815: R1751731: L523962-01

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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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Chris Hines / Jake Harris
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2717 County Road 215, Suite 100
Parachute, CO 81635

Report Summary

Friday August 12, 2011

Report Number: L530199


Samples Received: 08/10/11

Client Project:

Description: G35 Pit Closure

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:


Jared Willis, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

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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

August 12, 2011

Chris Hines / Jake Harris
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

Date Received : August 10, 2011
Description : G35 Pit Closure
Sample ID : G35-PITX-SPOIL-080811 4-6IN
Collected By : Brennen Graff
Collection Date : 08/08/11 11:28

ESC Sample # : L530199-01
Site ID : G35
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	08/10/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	96.6		% Rec.	602/8015	08/10/11	5
TPH (GC/FID) High Fraction	250	4.0	mg/kg	3546/DRO	08/11/11	1
Surrogate recovery(%) o-Terphenyl	59.4		% Rec.	3546/DRO	08/11/11	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: 08/12/11 09:48 Printed: 08/12/11 09:48

Summary of Remarks For Samples Printed
08/12/11 at 09:48:40

TSR Signing Reports: 358
R3 - Rush: Two Day

Sample: L530199-01 Account: ENCANACO Received: 08/10/11 09:00 Due Date: 08/12/11 00:00 RPT Date: 08/12/11 09:48



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August 12, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG549816	08/10/11 15:34
a,a,a-Trifluorotoluene(FID)		% Rec.	98.13	59-128	WG549816	08/10/11 15:34
TPH (GC/FID) High Fraction	< 4	ppm			WG549763	08/11/11 15:43
o-Terphenyl		% Rec.	65.13	50-150	WG549763	08/11/11 15:43

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.45	99.1	67-135	WG549816
a,a,a-Trifluorotoluene(FID)				105.0	59-128	WG549816
TPH (GC/FID) High Fraction	ppm	60	47.6	79.3	50-150	WG549763
o-Terphenyl				72.80	50-150	WG549763

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
TPH (GC/FID) Low Fraction	mg/kg	5.99	5.45	109.	67-135	9.39	20	WG549816
a,a,a-Trifluorotoluene(FID)				105.6	59-128			WG549816
TPH (GC/FID) High Fraction	ppm	49.4	47.6	82.0	50-150	3.87	25	WG549763
o-Terphenyl				74.82	50-150			WG549763

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
TPH (GC/FID) Low Fraction	mg/kg	24.6	0	5.5	89.5	55-109	L530126-01	WG549816
a,a,a-Trifluorotoluene(FID)					101.6	59-128		WG549816
TPH (GC/FID) High Fraction	ppm	40.5	0	60	67.4	50-150	L529828-01	WG549763
o-Terphenyl					61.16	50-150		WG549763

Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
TPH (GC/FID) Low Fraction	mg/kg	22.4	24.6	81.6	55-109	9.21	20	L530126-01	WG549816
a,a,a-Trifluorotoluene(FID)				100.1	59-128				WG549816
TPH (GC/FID) High Fraction	ppm	45.0	40.5	74.9	50-150	10.5	25	L529828-01	WG549763
o-Terphenyl				68.29	50-150				WG549763

Batch number /Run number / Sample number cross reference

WG549816: R1810457: L530199-01
WG549763: R1811890: L530199-01

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