



J25 FracPad - Spill-CSW-052113



J25 FracPad - Spill-CSN-052113

• J25 FracPad - Spill-N-052113  
• 082113 - J25FracPad-Spill-N

• J25 FracPad - Spill-Mid-052113  
• 082113 - J25FracPad-Spill-Mid

J25 FracPad - Spill-CSN-052113



• J25 FracPad - Spill-POR-052113  
• 082113 - J25FracPad-Spill-POR  
• 110513 - J25FracPad-Spill-POR

• 110513 - J25FracPad-Spill-SE POR

encana.  
natural gas

- - Spill Sample Point
- - Non-Impacted Sample Point

J25 Frac Pad  
NWSE Section 25, T4S, R96W, 6th PM  
Garfield County, Co

Working Surface

**Affected Area**

Heavy Concentration

Lighter Misted Area

Allowable Concentration -->				Organic Compounds in Soil (mg/kg [ppm])																		Inorganics in Soil			Metals in Soil (mg/kg [ppm])														
Location	Sample Date:	Sample Matrix	Matrix Notes	500	TPH (total volatile and extractable petroleum hydrocarbons)	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C38) High Fraction	0.17	85	100	175	1000	1000	0.22	0.22	2.2	0.022	22	0.022	1000	1000	0.22	23	1000	EC (<4 mmhos/cm or 2x background)	SAR (calculation)	pH	Arsenic	Barium - EPA Total Barium	Cadmium	Chromium (III)	Chromium (VI)	Copper	Lead (inorganic)	Mercury	Nickel (soluble salts)	Selenium	Silver	Zinc
				TPH				Benzene	Toluene	Ethylbenzene	Xylenes - total	Acenaphthene	Anthracene	Benzo(A)anthracene	Benzo(B)fluoranthene	Benzo(K)fluoranthene	Benzo(A)pyrene	Chrysene	Dibenzo(A,H)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-C,D)pyrene	Naphthalene	Pyrene															
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TPH	Benzene	Toluene	Ethylbenzene	Xylenes - total	Acenaphthene	Anthracene	Benzo(A)anthracene	Benzo(B)fluoranthene	Benzo(K)fluoranthene	Benzo(A)pyrene	Chrysene	Dibenzo(A,H)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-C,D)pyrene	Naphthalene	Pyrene																						
TPH	Benzene	Toluene	Ethylbenzene	Xylenes - total	Acenaphthene	Anthracene	Benzo(A)anthracene	Benzo(B)fluoranthene	Benzo(K)fluoranthene	Benzo(A)pyrene	Chrysene	Dibenzo(A,H)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-C,D)pyrene	Naphthalene	Pyrene																						
TPH	Benzene	Toluene	Ethylbenzene	Xylenes - total	Acenaphthene	Anthracene	Benzo(A)anthracene																																



12065 Lebanon Rd.  
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Tax I.D. 62-0814289

Est. 1970

EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

## Report Summary

Tuesday November 12, 2013

Report Number: L667052


Samples Received: 11/06/13

Client Project: J25 FRAC PAD

Description: J25 FRAC PAD Spill

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

Entire Report Reviewed By:

  
Jarred Willis , ESC Representative

### Laboratory Certification Numbers

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

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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

November 12, 2013

EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

Date Received : November 06, 2013  
Description : J25 FRAC PAD Spill  
Sample ID : 110513-J25 FRAC PAD (POR)  
Collected By : Matt Kasten  
Collection Date : 11/05/13 11:15

ESC Sample # : L667052-01

Site ID : J25 FRAC PAD

Project # : J25 FRAC PAD

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	8015D/DRO	11/10/13	1
Surrogate recovery(%) o-Terphenyl	87.6		% Rec.	8015D/DRO	11/10/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 11/12/13 09:59 Printed: 11/12/13 10:00



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Est. 1970

REPORT OF ANALYSIS

November 12, 2013

EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

Date Received : November 06, 2013  
Description : J25 FRAC PAD Spill  
Sample ID : 110513-J25 FRAC PAD (SE POR)  
Collected By : Matt Kasten  
Collection Date : 11/05/13 11:20

ESC Sample # : L667052-02

Site ID : J25 FRAC PAD

Project # : J25 FRAC PAD

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	8015D/DRO	11/11/13	1
Surrogate recovery(%) o-Terphenyl	71.3		% Rec.	8015D/DRO	11/11/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 11/12/13 09:59 Printed: 11/12/13 10:00

Summary of Remarks For Samples Printed  
11/12/13 at 10:00:27

TSR Signing Reports: 358  
R5 - Desired TAT

Log all PAHs as PAHSIM. Log all BTEX waters by 8260. Log ALL samples for EDD (COGCC EDD).

Sample: L667052-01 Account: ENCANACO Received: 11/06/13 09:30 Due Date: 11/13/13 00:00 RPT Date: 11/12/13 09:59

Sample: L667052-02 Account: ENCANACO Received: 11/06/13 09:30 Due Date: 11/13/13 00:00 RPT Date: 11/12/13 09:59



