

August 9, 2012

Email to Linda.SpryORourke@state.co.us

Ms. Linda Spry O'Rourke
Northwest Region Environmental Protection Specialist
Colorado Oil & Gas Conservation Commission
707 Wapiti Court, Suite 204
Rifle, Colorado 81650

Re: Notice of Alleged Violation 200332536, dated December 12, 2011
K200U Well Pad (Location 334379)
NESW Sec. 20, T8S, R96W, Mesa County, Colorado

Dear Ms. Spry O'Rourke:

This letter was prepared to provide a summary of the laboratory results from samples collected in response to the NOAV referenced above, and following our response letter dated January 9, 2012. On January 6, 2012, samples were collected from undisturbed material in the well pad cut slope to demonstrate the range of arsenic background values present at this location. Additional samples were also collected from the cut slope directly south of the western row of wellheads to better represent the location of the background sample identified in the NOAV as evidence of an unreported spill. These follow up samples were requested at a January 25, 2012 meeting between Encana and COGCC personnel, and were collected on January 26 and March 21, 2012.

A total of 21 samples have been collected, with 91 arsenic extractions conducted by the lab on the collected samples. All samples collected in support of this investigation were carried out by a 3rd party environmental consultant, and were documented with field notes, photos, and GPS points. Attached is a site diagram illustrating sample collection points, field documentation, and a laboratory results summary table with associated reports.

The investigation conducted in response to the above referenced NOAV had the following findings:

- Arsenic background values at the K200U well pad range from BDL (<5.0) to 29 ppm.
- The background sampling location (SW Back) identified in the Form 19 site diagram (dated 11/20/2011) that lead to the NOAV alleging an unreported spill was incorrectly placed in relation to the pad. The pad had not been expanded at the time of sample collection, and the location identified in the Form 19 would have placed the sample collection in the middle of the existing cuttings stockpile. The location error is illustrated in the attached site diagrams.
 - Although the documentation procedure was not followed for the samples collected in October 2010, we are confident the samples are representative of background conditions.
- The samples collected in early 2012 from due south of the well heads were cross-contaminated by drill cuttings stockpiled at that location when the pad had a smaller footprint. Cuttings residue is visible at the sample collection points. (See asterisked sample records and photos).
 - Samples collected with elevated SAR and pH results, have comparatively low arsenic concentrations, as do the cuttings samples collected from this location.

Based on these results and the spill history provided in the January 9, 2012 response to the NOAV, there is no evidence of an unreported spill on this location. Encana requests that the NOAV (dated 12/12/2011) be revoked.

Sincerely,
Encana Oil & Gas (USA) Inc.



Christopher C. Hines
Environmental Field Coordinator | Natural Resources Specialist

cc: Alex Fischer, COGCC
Peter Gowen, COGCC
Diane M. Bliesner, Encana

Attachments: Site Diagram (NOAV Investigation Samples)
Site Diagram (Form 19)
Topographic Location Map
Sampling Photos (Former Cuttings Stockpile)
Laboratory Results Summary Table
Sampling Field Notes (NOAV Investigation)
Laboratory Reports

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natural gas

0 90 180 Feet

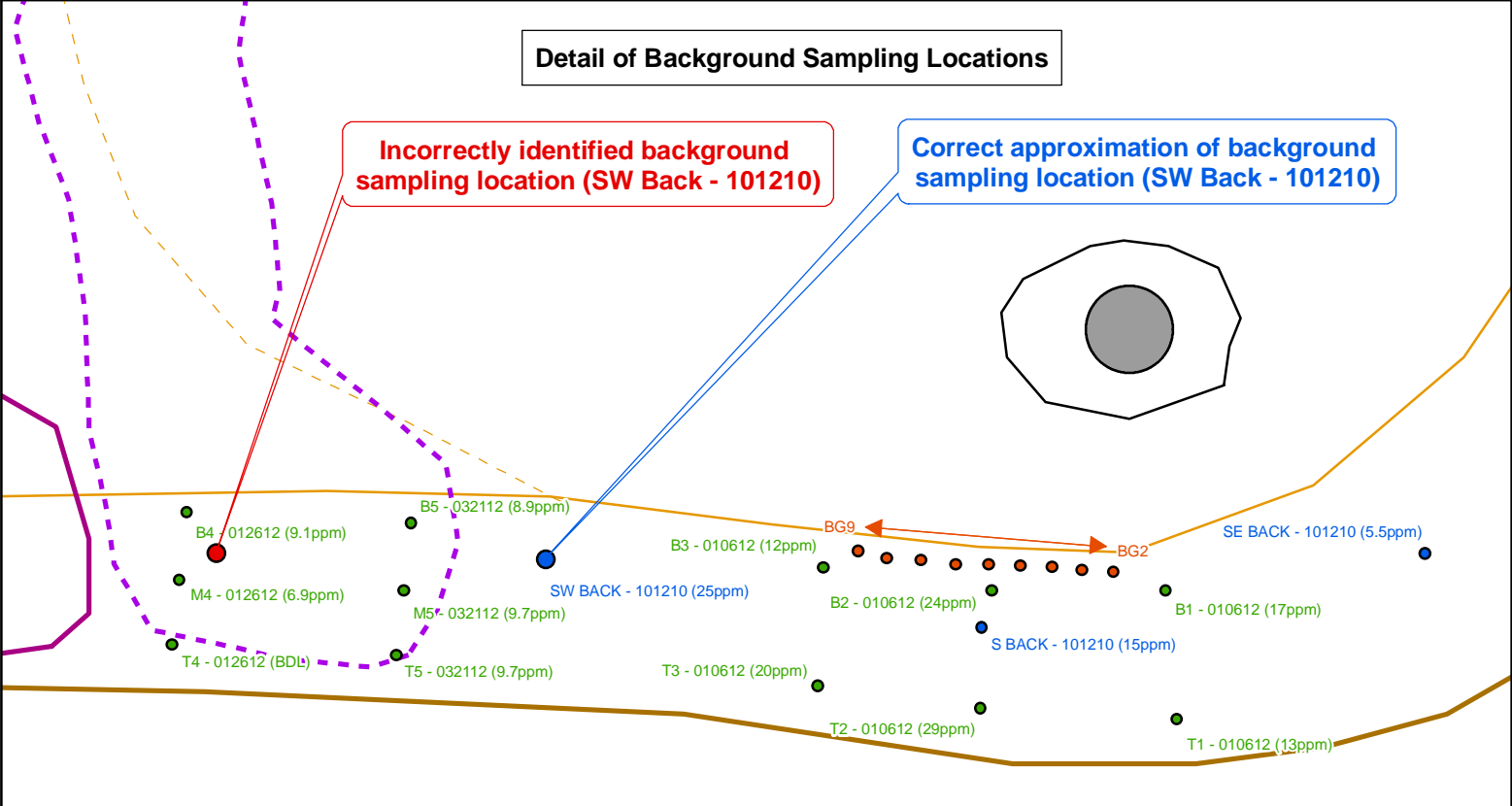
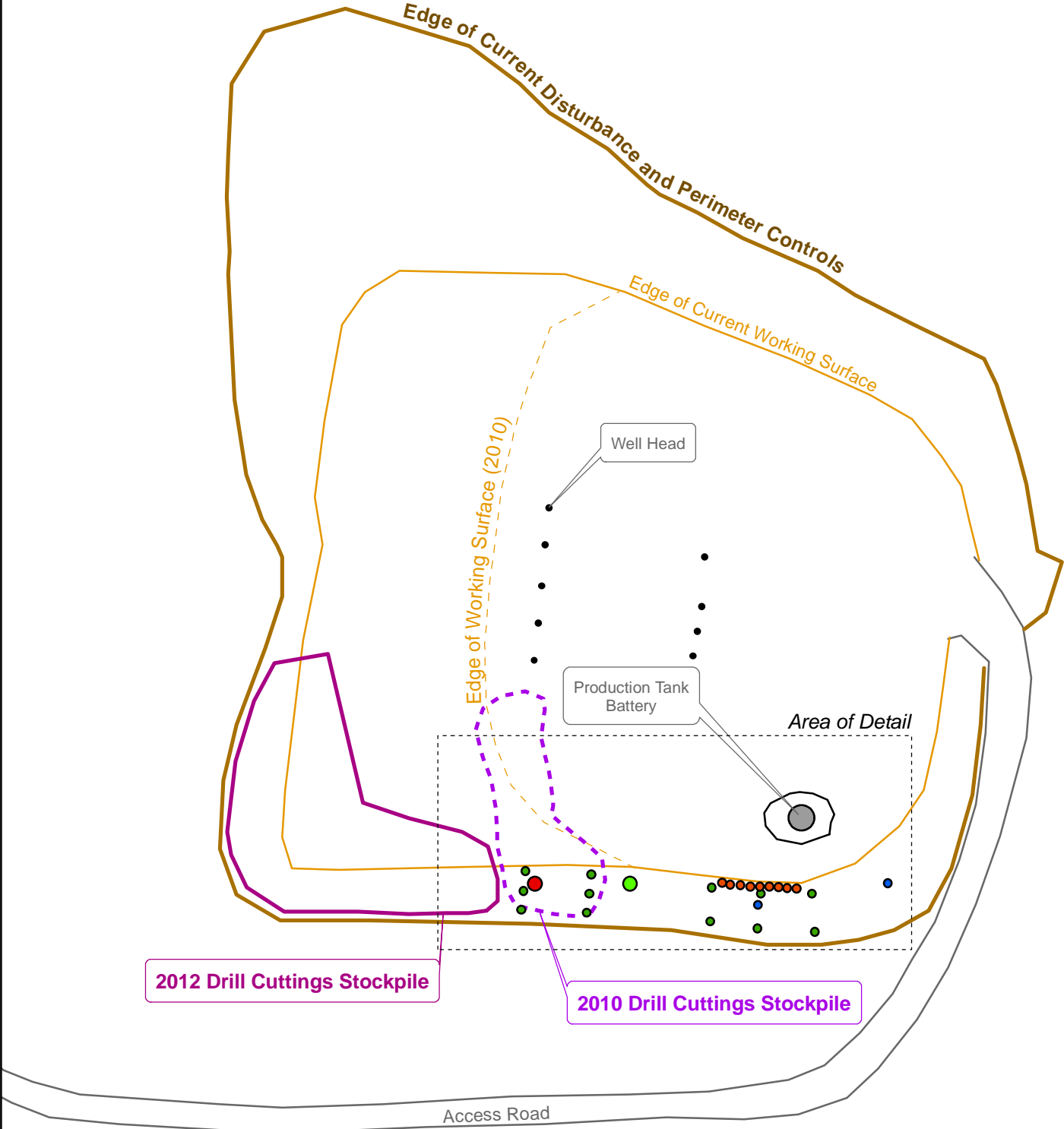
1 inch = 117 feet


**K200U Well Pad
Sampling Diagram**

(Location ID: 334379)

Revised: August 7, 2012

NOAV (200332536) Investigation Samples



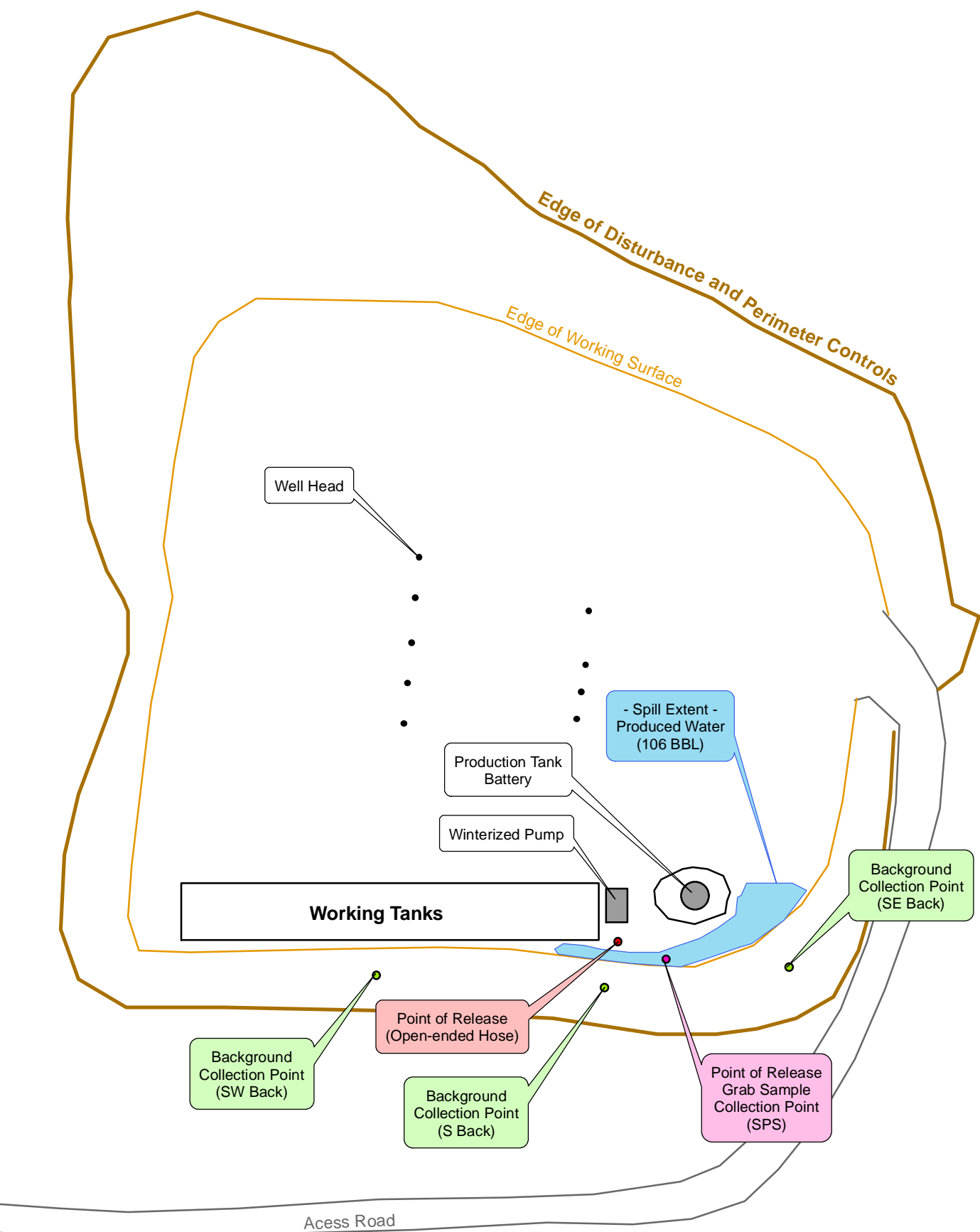


0 75 150 Feet
1 inch = 100 feet

**K20OU Well Pad
(334379)**

Wildcat Field (Orchard Unit)
Mesa County, Colorado

Incident Diagram for 106 BBL Produced Water Spill
Date of Incident: November 20, 2011



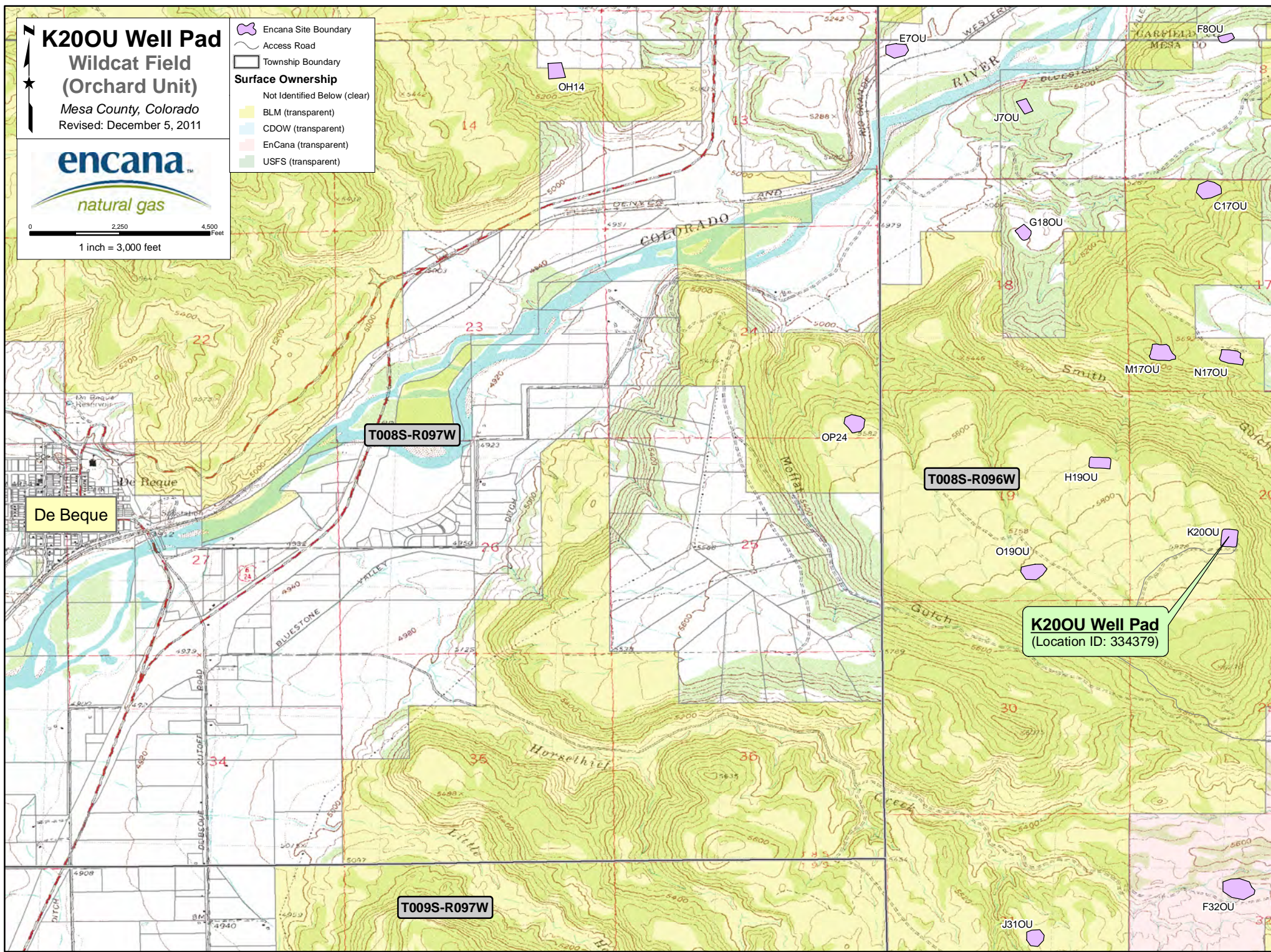
K200U Well Pad Wildcat Field (Orchard Unit)

Mesa County, Colorado
Revised: December 5, 2011



0 2,250 4,500 Feet
1 inch = 3,000 feet

- Encana Site Boundary
- Access Road
- Township Boundary
- Surface Ownership**
 - Not Identified Below (clear)
 - BLM (transparent)
 - CDOW (transparent)
 - EnCana (transparent)
 - USFS (transparent)





Looking south over the wellheads to the cuttings residue identified in the laboratory results summary table




Visible cuttings residue on cut-slope

Analytes (BDL = Below Detection Limit; ND = Non Detect)

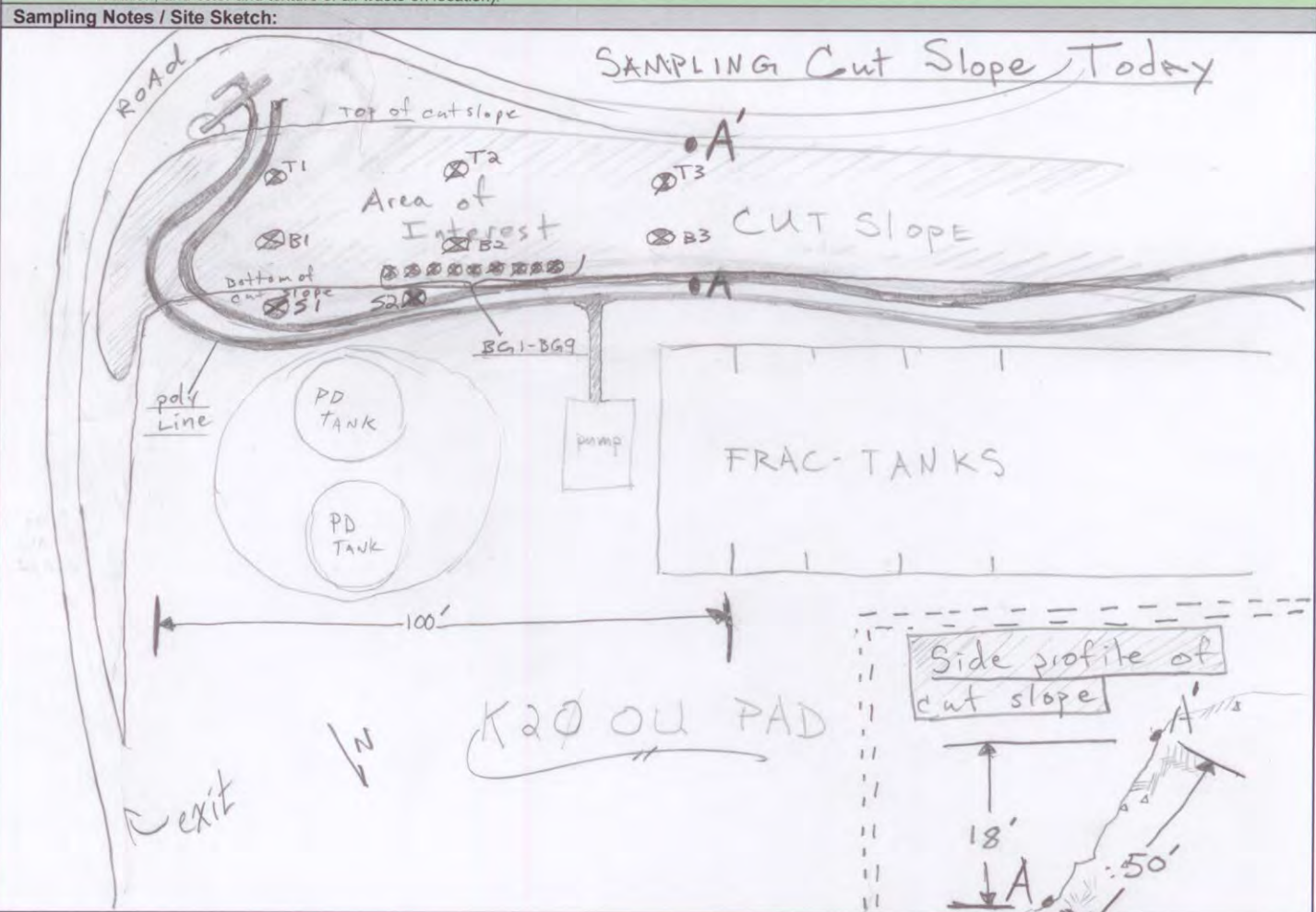
				Analytes (BDL = Below Detection Limit, ND = Not Detect)								Inorganics in Soil			Metals
Allowable Concentration -->				Organic Compounds in Soil (mg/kg [ppm])											
Location	Sample Date:	Sample Matrix	Matrix Notes	TPH (total volatile and extractable petroleum hydrocarbons)	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C36) High Fraction	Benzene	Toluene	Ethylbenzene	Xylenes - total	EC (<4 mmhos/cm or 2x background)	SAR (calculation)	pH	Arsenic	
				500			0.17	85	100	175		(<12)	(6-9)	0.39	
K20OU	09/16/09	Background		24.73	4.43	20.3	ND	0.0016	ND	ND	0.117	0.0704	8.9	6.1	
K20OU	10/12/10	Background	S											15	
K20OU	10/12/10	Background	SE											5.5	
K20OU	10/12/10	Background	SW											25	
K20OU	01/06/12	Background	cutslope B1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.19	3.5	9	17	
K20OU	01/06/12	Background	cutslope B2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.16	1.2	8.7	24	
K20OU	01/06/12	Background	cutslope B3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.25	17	9.1	12	
K20OU	01/06/12	Background	cutslope B3. SAR re-run									4.2			
K20OU	01/06/12	Background	cutslope B3. SAR re-run									5			
K20OU	01/06/12	Background	cutslope BG2											11	
K20OU	01/06/12	Background	cutslope BG2											11	
K20OU	01/06/12	Background	cutslope BG2											12	
K20OU	01/06/12	Background	cutslope BG2											12	
K20OU	01/06/12	Background	cutslope BG2											13	
K20OU	01/06/12	Background	cutslope BG2											13	
K20OU	01/06/12	Background	cutslope BG2											16	
K20OU	01/06/12	Background	cutslope BG2											19	
K20OU	01/06/12	Background	cutslope BG2 2.5											9.4	
K20OU	01/06/12	Background	cutslope BG2 2.5											10	
K20OU	01/06/12	Background	cutslope BG2 2.5											10	
K20OU	01/06/12	Background	cutslope BG2 2.5											11	
K20OU	01/06/12	Background	cutslope BG2 2.5											11	
K20OU	01/06/12	Background	cutslope BG2 2.5											12	
K20OU	01/06/12	Background	cutslope BG2 2.5											13	
K20OU	01/06/12	Background	cutslope BG2 2.5											15	
K20OU	01/06/12	Background	cutslope BG3 5											11	
K20OU	01/06/12	Background	cutslope BG3 5											11	
K20OU	01/06/12	Background	cutslope BG3 5											12	
K20OU	01/06/12	Background	cutslope BG3 5											12	
K20OU	01/06/12	Background	cutslope BG3 5											12	
K20OU	01/06/12	Background	cutslope BG3 5											14	
K20OU	01/06/12	Background	cutslope BG3 5											15	
K20OU	01/06/12	Background	cutslope BG3 5											17	
K20OU	01/06/12	Background	cutslope BG4 7.5											8.9	
K20OU	01/06/12	Background	cutslope BG4 7.5											10	
K20OU	01/06/12	Background	cutslope BG4 7.5											10	
K20OU	01/06/12	Background	cutslope BG4 7.5											11	
K20OU	01/06/12	Background	cutslope BG4 7.5											11	
K20OU	01/06/12	Background	cutslope BG4 7.5											12	
K20OU	01/06/12	Background	cutslope BG4 7.5											12	
K20OU	01/06/12	Background	cutslope BG4 7.5											14	
K20OU	01/06/12	Background	cutslope BG5 10											7.7	
K20OU	01/06/12	Background	cutslope BG5 10											8	
K20OU	01/06/12	Background	cutslope BG5 10											8.5	
K20OU	01/06/12	Background	cutslope BG5 10											10	
K20OU	01/06/12	Background	cutslope BG5 10											11	
K20OU	01/06/12	Background	cutslope BG5 10											14	
K20OU	01/06/12	Background	cutslope BG5 10											14	
K20OU	01/06/12	Background	cutslope BG5 10											14	
K20OU	01/06/12	Background	cutslope BG6 12.5											11	
K20OU	01/06/12	Background	cutslope BG6 12.5											12	
K20OU	01/06/12	Background	cutslope BG6 12.5											12	
K20OU	01/06/12	Background	cutslope BG6 12.5											13	
K20OU	01/06/12	Background	cutslope BG6 12.5											14	
K20OU	01/06/12	Background	cutslope BG6 12.5											14	
K20OU	01/06/12	Background	cutslope BG6 12.5											15	
K20OU	01/06/12	Background	cutslope BG6 12.5											17	

Allowable Concentration -->				Organic Compounds in Soil (mg/kg [ppm])							Inorganics in Soil			Metals
				500				0.17	85	100	175		(<12)	(6-9)
Location	Sample Date:	Sample Matrix	Matrix Notes	TPH (total volatile and extractable petroleum hydrocarbons)	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C36) High Fraction	Benzene	Toluene	Ethylbenzene	Xylenes - total	EC (<4 mmhos/cm or 2x background)	SAR (calculation)	pH	Arsenic
K20OU	01/06/12	Background	cutslope BG7 15											10
K20OU	01/06/12	Background	cutslope BG7 15											11
K20OU	01/06/12	Background	cutslope BG7 15											12
K20OU	01/06/12	Background	cutslope BG7 15											12
K20OU	01/06/12	Background	cutslope BG7 15											12
K20OU	01/06/12	Background	cutslope BG7 15											12
K20OU	01/06/12	Background	cutslope BG7 15											14
K20OU	01/06/12	Background	cutslope BG7 15											14
K20OU	01/06/12	Background	cutslope BG8 17.5											9.5
K20OU	01/06/12	Background	cutslope BG8 17.5											10
K20OU	01/06/12	Background	cutslope BG8 17.5											11
K20OU	01/06/12	Background	cutslope BG8 17.5											11
K20OU	01/06/12	Background	cutslope BG8 17.5											12
K20OU	01/06/12	Background	cutslope BG8 17.5											13
K20OU	01/06/12	Background	cutslope BG8 17.5											14
K20OU	01/06/12	Background	cutslope BG9 20											7.3
K20OU	01/06/12	Background	cutslope BG9 20											7.3
K20OU	01/06/12	Background	cutslope BG9 20											7.6
K20OU	01/06/12	Background	cutslope BG9 20											7.9
K20OU	01/06/12	Background	cutslope BG9 20											8
K20OU	01/06/12	Background	cutslope BG9 20											8.7
K20OU	01/06/12	Background	cutslope BG9 20											9.1
K20OU	01/06/12	Background	cutslope BG9 20											10
K20OU	01/06/12	Background	cutslope T1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.21	0.98	8.2	13
K20OU	01/06/12	Background	cutslope T2	4.4	BDL	4.4	BDL	BDL	BDL	BDL	0.18	4.2	8.5	29
K20OU	01/06/12	Background	cutslope T3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.24	1.1	8.5	20
K20OU	01/26/12	Background	* cutslope B4 (cuttings residue	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.35	9.3	9.2	9.1
K20OU	01/26/12	Background	* cutslope B4 pH re-run (cuttings residue present)										9	
K20OU	01/26/12	Background	* cutslope M4 (cuttings residue	13	BDL	13	BDL	BDL	BDL	BDL	0.85	23	9.5	6.9
K20OU	01/26/12	Background	* cutslope M4 pH/SAR re-run (cuttings residue present)									21	9.4	
K20OU	01/26/12	Background	* cutslope T4 (cuttings residue	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.3	6.6	9.1	BDL
K20OU	01/26/12	Background	* cutslope T4 pH re-run (cuttings residue present)										9	
K20OU	03/21/12	Background	* cutslope B5 (cuttings residue	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.31	14	9.3	8.9
K20OU	03/21/12	Background	* cutslope M5 (cuttings residue	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.38	12	9.2	9.7
K20OU	03/21/12	Background	* cutslope T5 (cuttings residue	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.29	7.3	8.9	17


	PICEANCE BASIN ENVIRONMENTAL COMPLIANCE GROUP FIELD SAMPLING DATA FORM		Document No: ECG - F001
			Revised By - Date: C. Hines - 07/09/2010
			Reviewed By - Date: B. Kieding - 07/10/10
			Approved By - Date: B. Middleton - 07/10/10

General Information						
NAMING CONVENTION: it is important to support the identification of the location, sampling area and media at the location, and date it was sampled ie. Location - Media Type & Cardinal Direction- Date (ie. N9W-BGNE-010312). Always include cardinal direction if multiple samples are collected from the same sampling media whenever possible (i.e. "N9W-BGNE-010312 , N9W-BGSW-010312 , N9W-BGN-010312" etc.)						
MEDIA TYPES: PS = Pit Spoil / MOI = Material of Interest / S = Spill / PB = Pit Bottom / BG = Background / CUT = Cuttings / WC = Waste Characterization						
Sampler: <i>Scotly Mann / Garrett WALTSAK</i>		Location: <i>K200U</i>		Date of Sample: <i>1/6/12</i>		
Sample ID:		Time of Sample:		Lat (WGS 84):		Long (WGS 84):

- Directions:**
1. Take photos of location and sampled media.
 2. Take GPS point(s) and track(s) of sample locations, including composite points.
 3. Prepare sampling notes and site sketch below (Include sample locations, media dimensions, other waste not previously identified, estimated volumes of all waste on location, and color and texture of all waste on location).



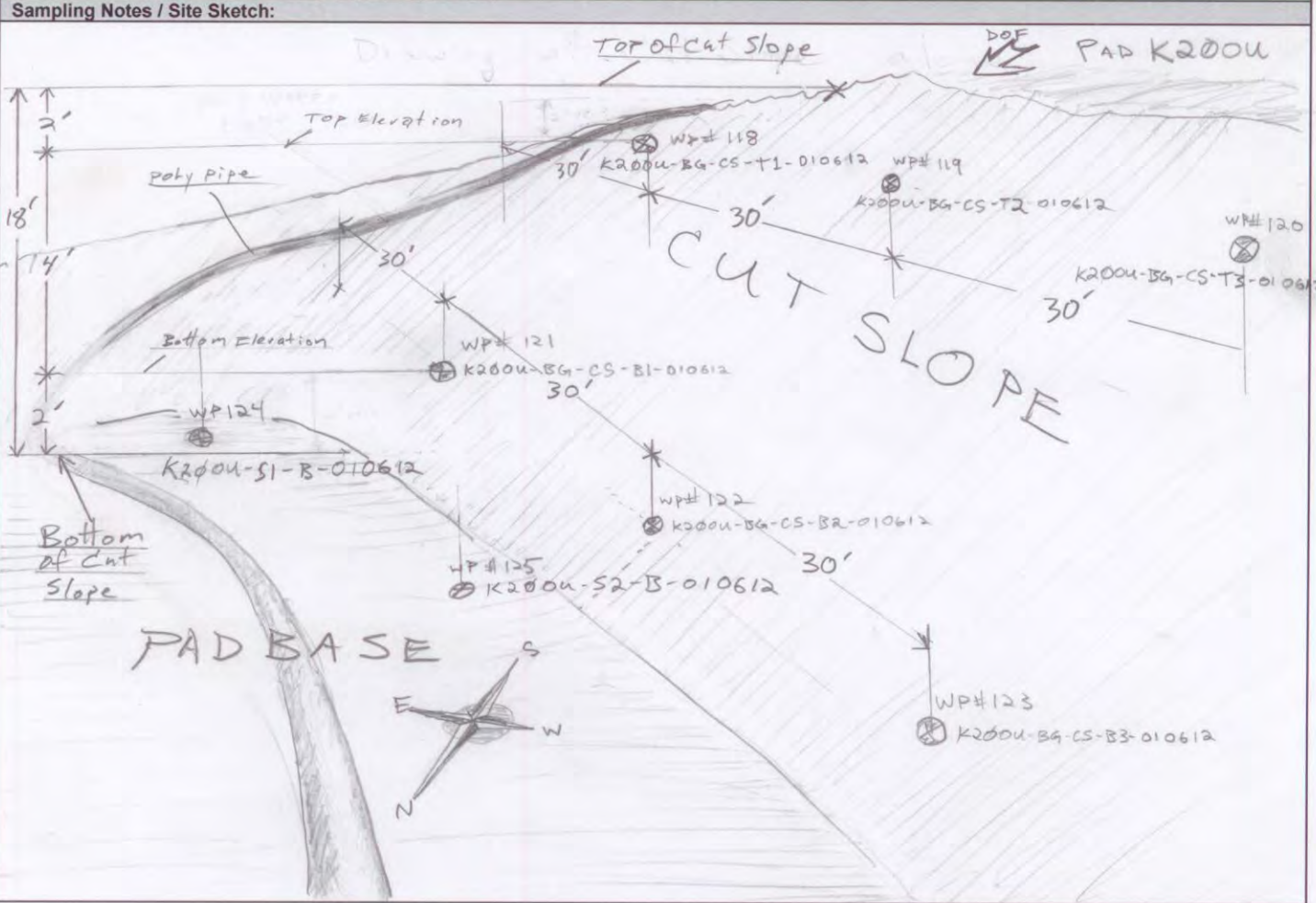
- Follow Up Procedures**
1. Create "FieldData" folder within the appropriate site folder in the SITE CLEARANCE directory. (If you don't know where this is...ASK!)
 2. Scan document to PDF and save in sampling field notes folder, using the name convention Location - Field Notes (Date) (i.e. "PD30 - Field Notes (01-03-2012)")
 3. Create "Photos" folder within "FieldData" folder and insert all photos taken during sampling event. Do not create an additional folder in the "Photos" folder. Use the camera wizard for consistent naming of photos: (i.e. "PD30 - Pit Sampling (01-03-2012)")
 4. Provide GPS Document in GDB format.

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MEDIA TYPES: PS = Pit Spoil / MOI = Material of Interest / S = Spill / PB = Pit Bottom / BG = Background / CUT = Cuttings / WC = Waste Characterization											
Sampler: CHANNET WATSAK / SCOTT MAHA		Location: K2000		Date of Sample: 1/6/12							
Sample ID:	K2000-BG-CS-T1-010612	Time of Sample:	1115	Lat (WGS 84):	39.33130	Long (WGS 84):	108.13461	Number of containers:	3	Composite or Grab:	Grab
	K2000-BG-CS-T2-010612		1130		39.33131		108.13472		3		
	K2000-BG-CS-T3-010612		1145		39.33132		108.13483		3		
	K2000-BG-CS-B1-010612		1200		39.33138		108.13460		3		
	K2000-BG-CS-B2-010612		1215		39.33138		108.13471		3		
	K2000-BG-CS-B3-010612		1230		39.33138		108.13481		3		

Directions:	
1. Take photos of location and sampled media.	
2. Take GPS point(s) and track(s) of sample locations, including composite points.	
3. Prepare sampling notes and site sketch below (Include sample locations, media dimensions, other waste not previously identified, estimated volumes of all waste on location, and color and texture of all waste on location).	

Sampling Notes / Site Sketch:



Follow Up Procedures	
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4. Provide GPS Document in GDB format.	



**PICEANCE BASIN
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MEDIA TYPES: PS = Pit Spoil / MOI = Material of Interest / S = Spill / PB = Pit Bottom / BG = Background / CUT = Cuttings / WC = Waste Characterization

Sampler: Garrett WATTSAP / Scotty MANN

Location: K2004

Date of Sample: 1/6/12

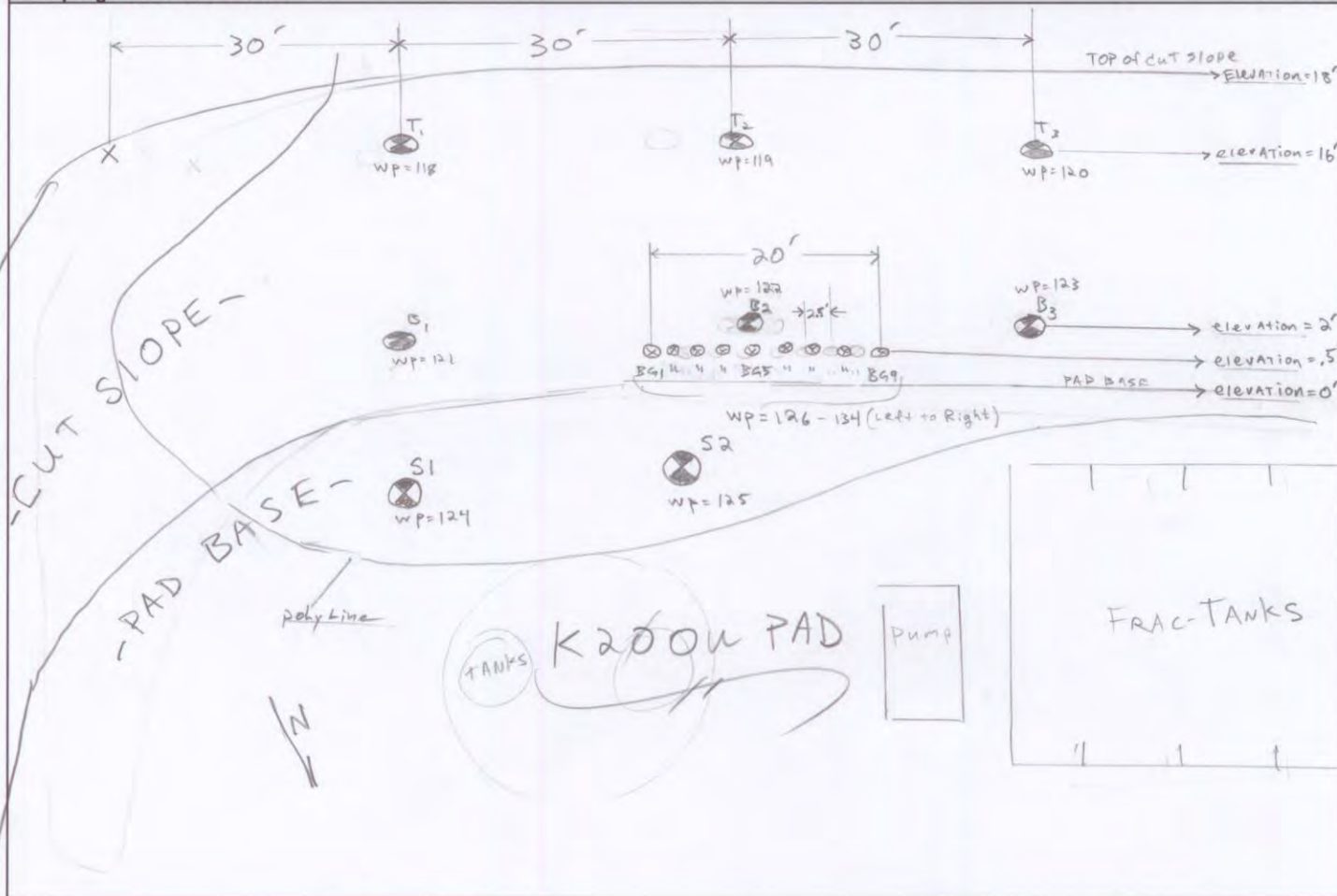
Sample ID:	K2004-S1-B-010612	Time of Sample:	1245	Lat (WGS 84):	39.33141	Long (WGS 84):	108.13457	Number of containers:	4	Composite or Grab:	Grab
	K2004-S2-B-010612		1300		39.33139		108.13470		4		Grab

1=2=
1=2=

Directions:

1. Take photos of location and sampled media.
2. Take GPS point(s) and track(s) of sample locations, including composite points.
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Sampling Notes / Site Sketch:



Follow Up Procedures

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4/5

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MEDIA TYPES: PS = Pit Spoil / MOI = Material of Interest / S = Spill / PB = Pit Bottom / BG = Background / CUT = Cuttings / WC = Waste Characterization

Sampler: *Sloppy Man / Gamet*

Location: *K2004*

Date of Sample: *1/6/12*

Sample ID:

Time of Sample:

Lat (WGS 84):

Long (WGS 84):

Number of
containers:

Composite or
Grab:

Directions:

1. Take photos of location and sampled media.
2. Take GPS point(s) and track(s) of sample locations, including composite points.
3. Prepare sampling notes and site sketch below (Include sample locations, media dimensions, other waste not previously identified, estimated volumes of all waste on location, and color and texture of all waste on location).

Sampling Notes / Site Sketch:

* Samples T1 through T3 were taken at 2' from top elevation of cut slope, and 16' above PAD BASE ELEVATION, at a Depth of 6" to 10". (T1-T3 taken from same soil horizon)

* Samples B1 through B3 were taken at 2' above the elevation of well PAD BASE, also at 6"-10" depth.
(B1-B3 taken from same soil horizon)

* Soil was a silty sandy loam, ^{Lt. Brown/}tan, slightly moist.

* Samples T1 and B1 were taken 30' from the East end of the cut slope. T2 and B2 were taken 30' further down the cut slope, or 60' from the east edge of cut slope. T3 and B3 were taken 30' further along the cut slope, or 90' from the east edge of cut slope.

* Samples S1 and S2 were taken from the Lowest Depressions on the well pad, within spill Area.

Follow Up Procedures

1. Create "FieldData" folder within the appropriate site folder in the SITE CLEARANCE directory. (If you don't know where this is...ASK!)
2. Scan document to PDF and save in sampling field notes folder, using the name convention Location - Field Notes (Date) (ie. "PD30 - Field Notes (01-03-2012)")
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MEDIA TYPES: PS = Pit Spoil / MOI = Material of Interest / S = Spill / PB = Pit Bottom / BG = Background / CUT = Cuttings / WC = Waste Characterization

Sampler: Scotty Mann / Garrett Wacthank

Location: K2004

Date of Sample: 1/6/12

Sample ID:

Time of Sample:

Lat (WGS 84):

Long (WGS 84):

Number of containers:

Composite or

Directions:

1. Take photos of location and sampled media.
2. Take GPS point(s) and track(s) of sample locations, including composite points.
3. Prepare sampling notes and site sketch below (Include sample locations, media dimensions, other waste not previously identified, estimated volumes of all waste on location, and color and texture of all waste on location).

Sampling Notes / Site Sketch:

SAMPLE ID = [^{PAD #} K200u - ^{cut Slope} BG - CS - T1 - ^{DATE} 010612] * [3 JARS EACH]

Back Ground Top of cut slope

Sample ID = [" - " - " - BI - "]
Bottom at dat slope

Sample ID = [K200n - Spill - BASE - 010612] [3 JARS EACH]

Follow Up Procedures

1. Create "FieldData" folder within the appropriate site folder in the SITE CLEARANCE directory. (If you don't know where this is...ASK!)
2. Scan document to PDF and save in sampling field notes folder, using the name convention *Location – Field Notes (Date)* (i.e. "PD30 – Field Notes (01-03-2012)")
3. Create "Photos" folder within "FieldData" folder and insert all photos taken during sampling event. Do not create an additional folder in the "Photos" folder. Use the camera wizard for consistent naming of photos: (i.e. "PD30 – Pit Sampling (01-03-2012)")
4. Provide GPS Document in GDB format.



PICEANCE BASIN
ENVIRONMENTAL COMPLIANCE GROUP
FIELD SAMPLING DATA FORM

Document No:
ECG - F001
Revised By - Date:
C. Hines - 07/09/2010
Reviewed By - Date:
B. Kieding - 07/10/10
Approved By - Date:
B. Middleton - 07/10/10

General Information

NAMING CONVENTION: it is important to support the identification of the location, sampling area and media at the location, and date it was sampled ie. Location - Media Type & Cardinal Direction- Date (ie. N9W-BGNE-010312). Always include cardinal direction if multiple samples are collected from the same sampling media whenever possible (i.e. "N9W-BGNE-010312", N9W-BGSW-010312, N9W-BGN-010312" etc.)

MEDIA TYPES: PS = Pit Spoil / MOI = Material of Interest / S = Spill / PB = Pit Bottom / BG = Background / CUT = Cuttings / WC = Waste Characterization

Sampler: Scotty Mann / Garrett Watkins

Location: K2004

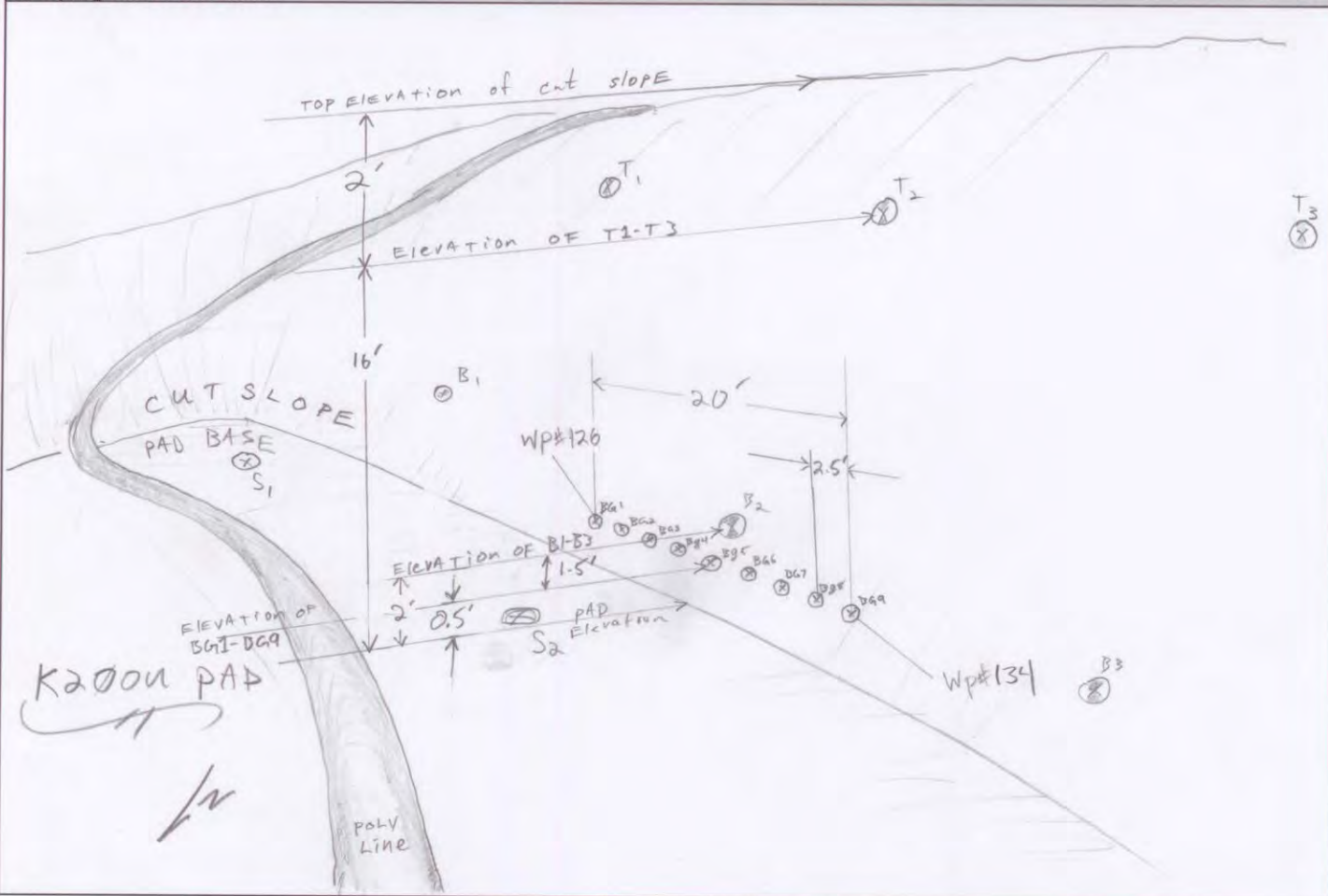
Date of Sample: 01/06/12

Sample ID:	Time of Sample:	Lat (WGS 84):	Long (WGS 84):	Number of containers:	Composite or Grab:
K2004-BG1-CS-0-010612	1310	39.33137	108.13468	1	Grab
K2004-BG2-CS-2.5-010612	1315	39.33138	108.13468	1	
K2004-BG3-CS-5-010612	1320	39.33138	108.13469	1	
K2004-BG4-CS-7.5-010612	1330	39.33137	108.13469	1	
K2004-BG5-CS-10-010612	1335	39.33138	108.13470	1	
K2004-BG6-CS-12.5-010612	1340	39.33138	108.13471	1	

Directions:

1. Take photos of location and sampled media.
2. Take GPS point(s) and track(s) of sample locations, including composite points.
3. Prepare sampling notes and site sketch below (Include sample locations, media dimensions, other waste not previously identified, estimated volumes of all waste on location, and color and texture of all waste on location).

Sampling Notes / Site Sketch:



Follow Up Procedures

1. Create "FieldData" folder within the appropriate site folder in the SITE CLEARANCE directory. (If you don't know where this is... ASK!)
2. Scan document to PDF and save in sampling field notes folder, using the name convention Location - Field Notes (Date) (i.e. "PD30 - Field Notes (01-03-2012)")
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Revised By - Date: C. Hines – 07/09/2010
Reviewed By - Date: B. Kieding – 07/10/10
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General Information

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MEDIA TYPES: PS = Pit Spoil / MOI = Material of Interest / S = Spill / PB = Pit Bottom / BG = Background / CUT = Cuttings / WC = Waste Characterization

Sampler: Garrett WALTAK / Scotty Mann

Location: K2004

Date of Sample: 01/06/12

[illegible]

Directions:

1. Take photos of location and sampled media.
2. Take GPS point(s) and track(s) of sample locations, including composite points.
3. Prepare sampling notes and site sketch below (Include sample locations, media dimensions, other waste not previously identified, estimated volumes of all waste on location, and color and texture of all waste on location).

Sampling Notes / Site Sketch:

★ Samples BG1-9 comprise a 20' profile along horizontal length of cut slope.
- one sample taken every 2.5'.

* Samples BG1-9 were taken 0.5' above elevation of K200n wellpad.

* They were all taken from the same soil horizon.

* Samples were taken from depth of 6"-10".

SAMPLE ID = $\left[\overset{\text{PAD \#}}{\text{K200N}} - \underset{\text{Background}}{\text{BG1}} - \overset{\text{Cut SLOPE}}{\text{CS}} - \underset{\text{Feet Along Profile}}{\text{2.5}} - \overset{\text{DATE CODE}}{\text{010612}} \right]$

*one jar each

* soil was a light brown/tan, silty sandy loam.

* for more drawings reference other set of notes from today.
(K2000)

Follow Up Procedures

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2. Scan document to PDF and save in sampling field notes folder, using the name convention *Location – Field Notes (Date)* (i.e. "PD30 – Field Notes (01-03-2012)")
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4. Provide GPS Document in GDB format.



**PICEANCE BASIN
ENVIRONMENTAL COMPLIANCE GROUP
FIELD SAMPLING DATA FORM**

Document No:
ECG - F001.2
Revised By - Date:
C. Hines - 01/09/12
Reviewed By - Date:
B. Middleton - 01/09/12
Approved By - Date:
C. Hines - 01/09/12

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NAMING CONVENTION: All "Sample IDs" used in this form, or with the lab's COC must conform with the following naming format: **Location - Sampling Matrix - Date**

Sample Matrix types must include these base descriptions or listed abbreviations: (other notations/abbreviations may be used in addition):

PS (Pit Spoil) | **MOI** (Material of Interest) | **S** (Spill) | **PB** (Pit Bottom) | **BG** (Background) | **CUT** (Cuttings) | **WC** (Waste Characterization)

Multiple samples collected from the same sampling matrix on the same location should include a cardinal direction abbreviation as part of the sampling matrix:

(e.g. PD30-BGNW-010312, PD30-BGS-010312, PD30-CUTW-010312)

Sampler: 1 ARRE WATSAK		Location: K200U		Date of Sample: 1/26/12			
Sa	K200U-BG-CS-T4-012612	1250	39-33137	108-13522	3	Grab	
	K200U-BG-CS-M4-012612	1305	39-33139	108-13521	3		Grab
	K200U-BG-CS-B4-012612	1320	39-33141	108-13519	3		Grab

depth
10"
10"
10"

Sample Documentation Procedure

1. **PHOTOS** - An adequate number to provide sample location in the context of the pad and to illustrate depth and texture of collected material.
2. **GPS** - A track must be taken while driving to the sampling location and while sampling. Waypoints must be taken at every sample point (composite or grab).
3. **NOTES** - Prepare sampling notes and site sketch below (Include sample locations, media dimensions, other waste not previously identified, estimated volumes of all waste on location, color and texture of sampled material, and depth of sample collection).

Sampling Notes / Site Sketch

on site @ 11:00 * fill out JSA.

- draw site map.
- measure cut slope to determine sampling points.
- Photograph site and sampling points.
- Record GPS waypoints corresponding to sampling points.

1240 - collect samples while creating photo log.

1323 - create labels for sample JARS.


1333 Jar up soil samples.

off site @ 13:45

Follow Up Procedures

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2. Scan form to PDF and save in FieldData folder, using the name convention **Location - Field Notes (Date)** [e.g. PD30 - Field Notes (01-03-2012)]
3. Create "Photos" folder within FieldData folder and insert all photos taken during sampling event. Do not create a second Photos folder if one already exists. Use the camera wizard for consistent naming of photos. [e.g. PD30 - Pit Sampling (01-03-2012)]
4. Create GDB (garmin format) file from collected GPS data. GDB file should include all samples collected on a given day in one file. Copy GDB file to identified "mapsource" file using established naming format. [e.g. Walsh Sampling (01-03-2012)]

2/4

	PICEANCE BASIN ENVIRONMENTAL COMPLIANCE GROUP FIELD SAMPLING DATA FORM	Document No: ECG - F001.2
		Revised By - Date: C. Hines - 01/09/12
		Reviewed By - Date: B. Middleton - 01/09/12
		Approved By - Date: C. Hines - 01/09/12

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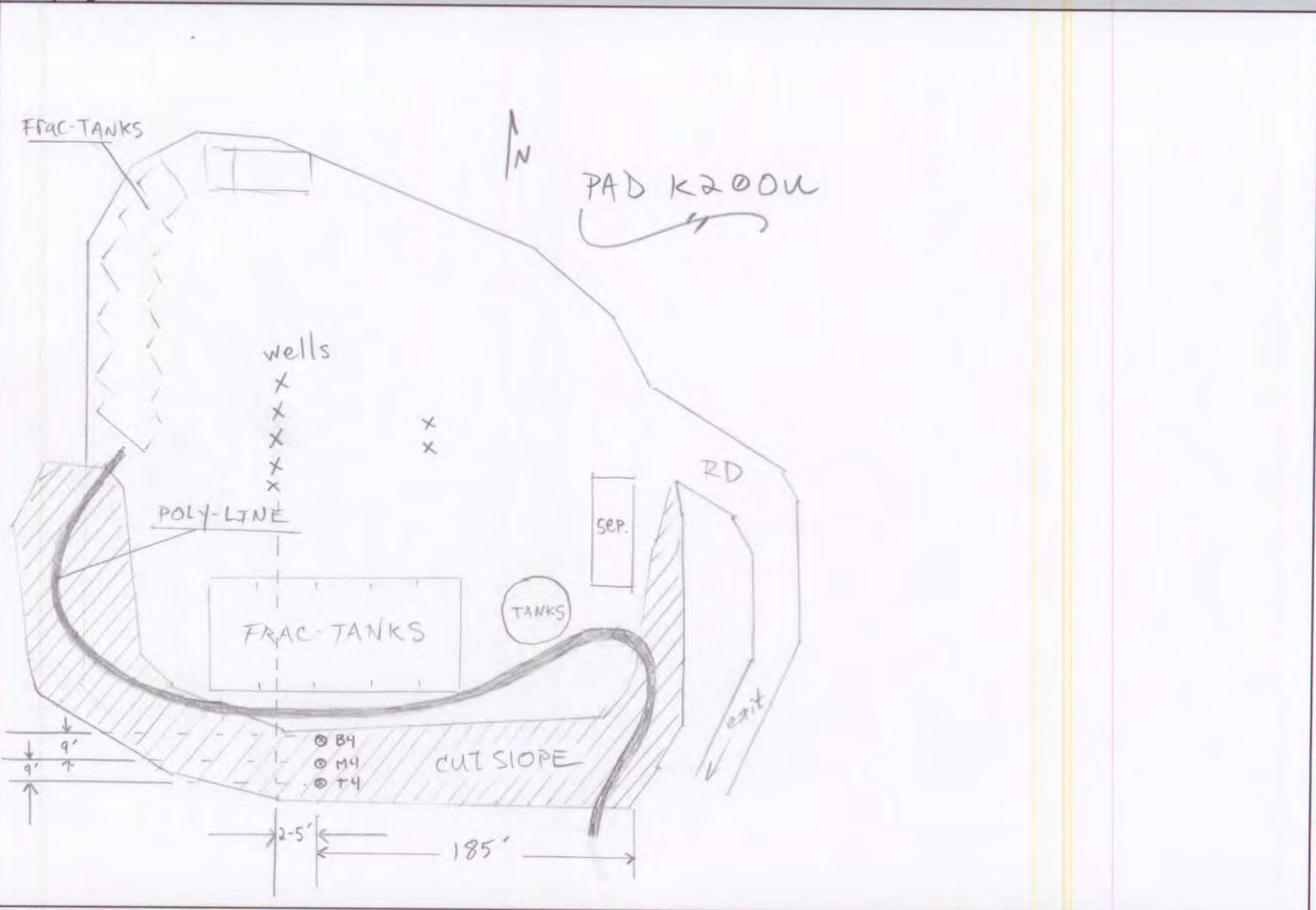
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 Multiple samples collected from the same sampling matrix on the same location should include a cardinal direction abbreviation as part of the sampling matrix:
 (e.g. PD30-BGNW-010312, PD30-BGS-010312, PD30-CUTW-010312)

Sampler: GARRETT WALTSAK		Location: K200U		Date of Sample: 1/26/12							
Sample ID:		Time of Sample:		Lat: (WGS 84 - decimal degrees)		Long: (WGS 84 - decimal degrees)		# of containers:		Composite or Grab:	

- Sample Documentation Procedure**
- PHOTOS** - An adequate number to provide sample location in the context of the pad and to illustrate depth and texture of collected material.
 - GPS** - A track must be taken while driving to the sampling location and while sampling. Waypoints must be taken at every sample point (composite or grab).
 - NOTES** - Prepare sampling notes and site sketch below (Include sample locations, media dimensions, other waste not previously identified, estimated volumes of all waste on location, color and texture of sampled material, and depth of sample collection).

Sampling Notes / Site Sketch



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 - Create "Photos" folder within FieldData folder and insert all photos taken during sampling event. Do not create a second Photos folder if one already exists. Use the camera wizard for consistent naming of photos. [e.g. PD30 - Pit Sampling (01-03-2012)]
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3/4

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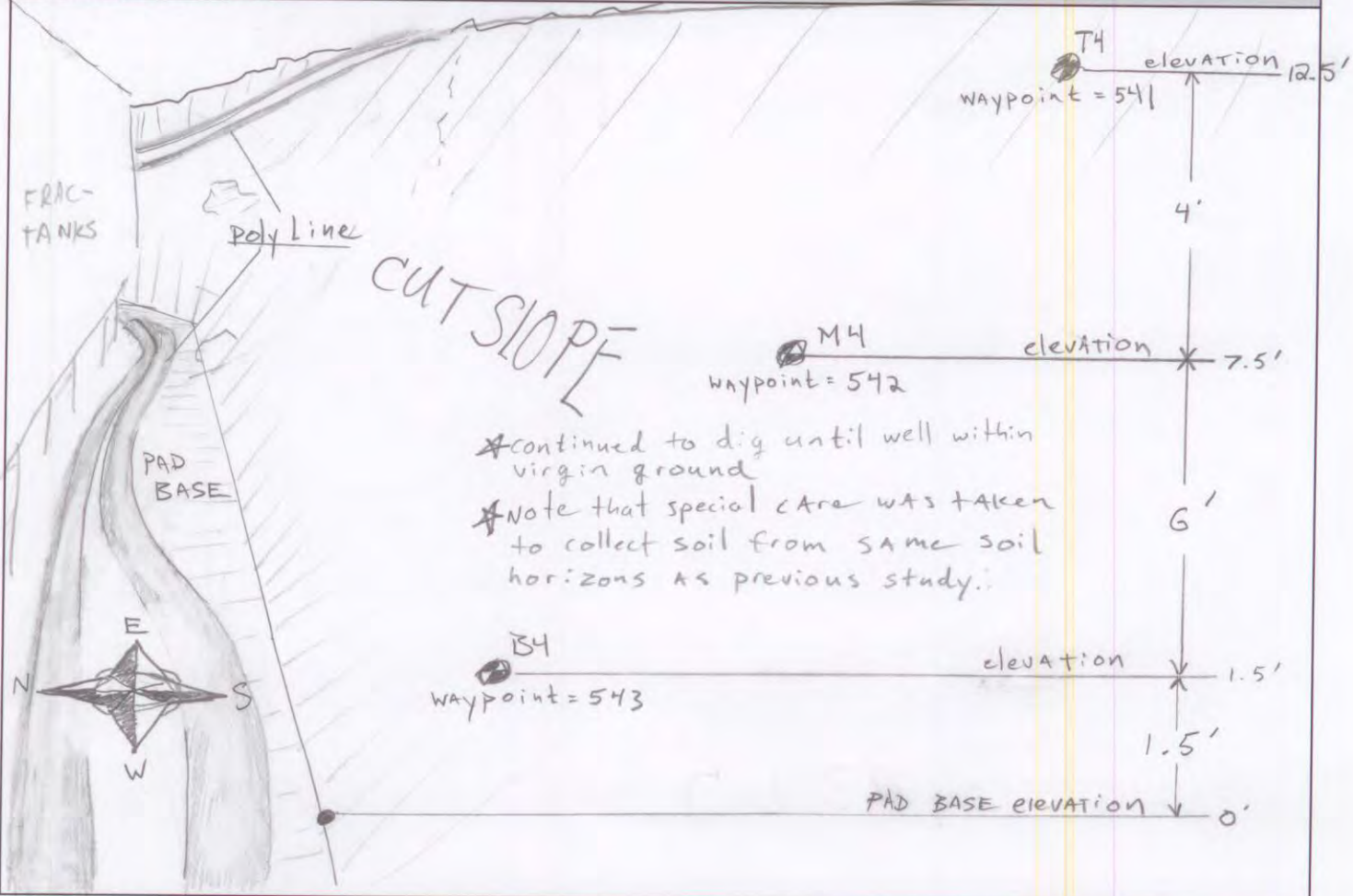
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 Multiple samples collected from the same sampling matrix on the same location should include a cardinal direction abbreviation as part of the sampling matrix:
 (e.g. PD30-BGNW-010312, PD30-BGS-010312, PD30-CUTW-010312)

Sampler: Garrett WATSAK	Location: K200u Arsenic Study	Date of Sample: 1/26/12
Sample ID: <div style="border: 1px solid black; height: 100px; width: 100%;"></div>	Time of Sample: <div style="border: 1px solid black; height: 100px; width: 100%;"></div>	Lat: (WGS 84 - decimal degrees) <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
	Long: (WGS 84 - decimal degrees) <div style="border: 1px solid black; height: 100px; width: 100%;"></div>	# of containers: <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
		Composite or Grab: <div style="border: 1px solid black; height: 100px; width: 100%;"></div>


- Sample Documentation Procedure**
1. **PHOTOS** - An adequate number to provide sample location in the context of the pad and to illustrate depth and texture of collected material.
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 3. **NOTES** - Prepare sampling notes and site sketch below (Include sample locations, media dimensions, other waste not previously identified, estimated volumes of all waste on location, color and texture of sampled material, and depth of sample collection).

Sampling Notes / Site Sketch



- Follow Up Procedures**
1. Create "FieldData" folder within the appropriate site folder in the WASTE/ONSITE directory. (If you don't know where this is...ASK!)
 2. Scan form to PDF and save in FieldData folder, using the name convention **Location - Field Notes (Date)** [e.g. PD30 - Field Notes (01-03-2012)]
 3. Create "Photos" folder within FieldData folder and insert all photos taken during sampling event. Do not create a second Photos folder if one already exists. Use the camera wizard for consistent naming of photos. [e.g. PD30 - Pit Sampling (01-03-2012)]
 4. Create GDB (garmin format) file from collected GPS data. GDB file should include all samples collected on a given day in one file. Copy GDB file to identified "mapsource" file using established naming format. [e.g. Walsh Sampling (01-03-2012)]

4/4

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 Multiple samples collected from the same sampling matrix on the same location should include a cardinal direction abbreviation as part of the sampling matrix:
 (e.g. PD30-BGNW-010312, PD30-BGS-010312, PD30-CUTW-010312)

Sampler: <u>Garrett WATSAK</u>		Location: <u>K200u</u>		Date of Sample: <u>1/26/12</u>		
Sample ID:		Time of Sample:	Lat: WGS 84 - decimal degrees	Long: WGS 84 - decimal degrees	# of containers:	Composite or Grab:

- Sample Documentation Procedure**
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Sampling Notes / Site Sketch

CUTSLOPE DATE

K200u-CS-T4-012612

TOP

4 relates to being the 4th in a line of cut slope samples.

K200u-CS-M4-012612

Middle

K200u-CS-B4-012612

Bottom

- Follow Up Procedures**
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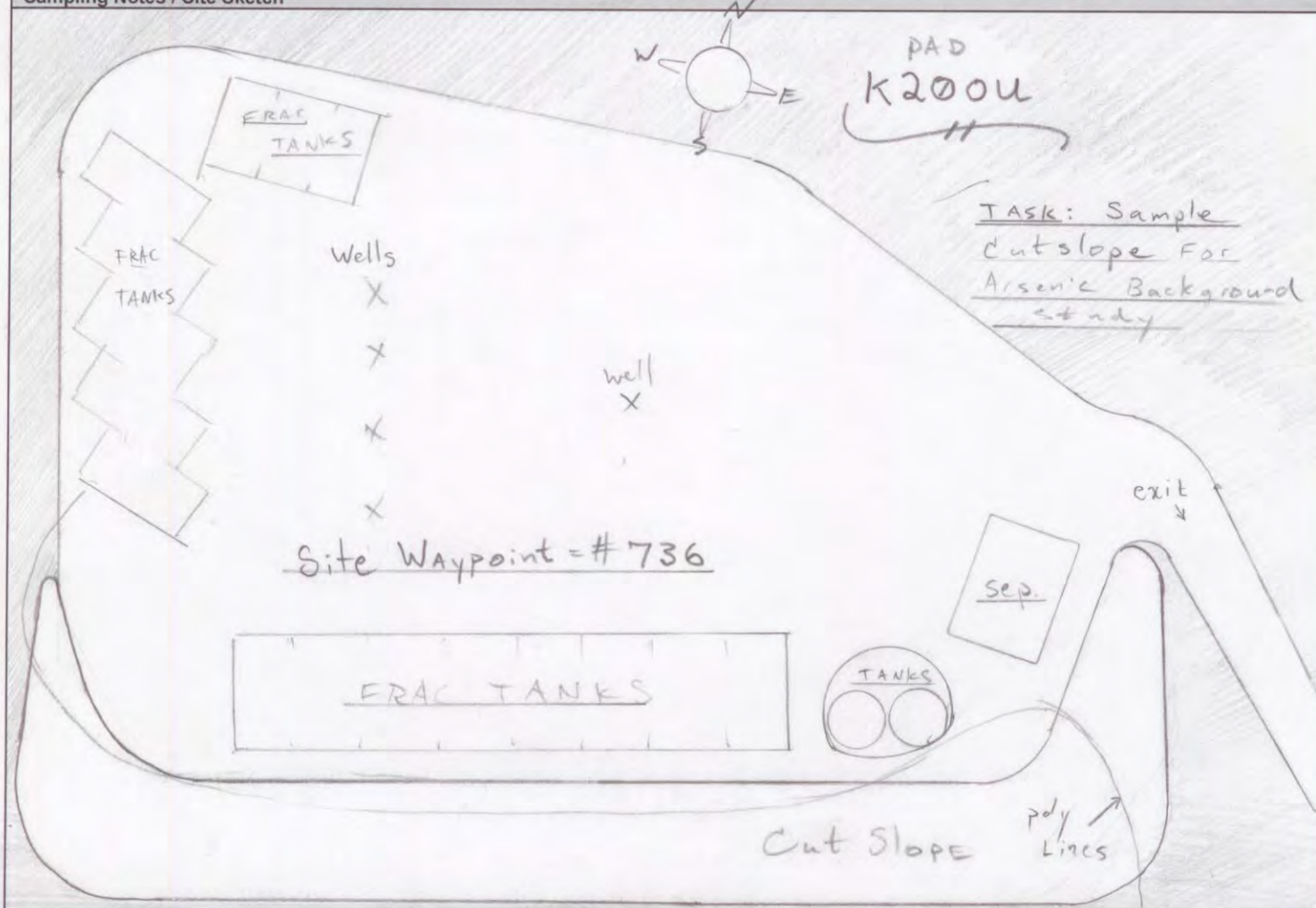
Sampler: <u>R. Garrett WATKIN</u>		Location: <u>K2004</u>		Date of Sample: <u>3/21/12</u>		
Sample ID:	<u>K2004-CS-B5-032112</u>	Time of Sample: <u>1210</u>	Lat: (WGS 84 - decimal degrees) <u>39.33144</u>	Long: (WGS 84 - decimal degrees) <u>108.13509</u>	# of containers: <u>3</u>	Composite or Grab: <u>Grab</u>
	<u>K2004-CS-M5-032112</u>	<u>1225</u>	<u>39.33144</u>	<u>108.13511</u>	<u>3</u>	<u>Grab</u>
	<u>K2004-CS-T5-032112</u>	<u>1240</u>	<u>39.33138</u>	<u>108.13515</u>	<u>3</u>	<u>Grab</u>
	<u>LAST Line</u>	<u>Ry</u>				

6-10"
6-10"
6-10"

Sample Documentation Procedure

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Sampling Notes / Site Sketch



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Sampler: Garrett WAYSACK

Location: K200U

Date of Sample: 3/21/2012

Sample ID:	Time of Sample:	Lat: (WGS 84 - decimal degrees)	Long: (WGS 84 - decimal degrees)	# of containers:	Composite or Grab:

Sample Documentation Procedure

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Sampling Notes / Site Sketch


on site 1040. JSA / Site WACK

- Sign JSA of People working on Fractanks nearby. / vis-verse.
- Determine proper sampling location.
- Produce site drawings
- Set up flagging and flags for sampling location visibility in photos.
- Take photos of general sampling area
- Dig down and collect samples from 6"-10" while creating photo log.
- Create sample labels.
- work on field notes, collect distances for notes.
- pack samples on ice

- off site 1310

Follow Up Procedures

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 (e.g. PD30-BGNW-010312, PD30-BGS-010312, PD30-CUTW-010312)

Sampler: <u>GARRETT WALTSAK</u>		Location: <u>K200U</u>		Date of Sample: <u>13/21/12</u>		
Sample ID:		Time of Sample:	Lat: (WGS 84 - decimal degrees)	Long: (WGS 84 - decimal degrees)	# of containers:	Composite or Grab:

- Sample Documentation Procedure**
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Sampling Notes / Site Sketch

cut slope

75 @ WP # 739

115 @ WP # 738

85 @ WP # 737

142' 73'

— PAD BASE —

K200U

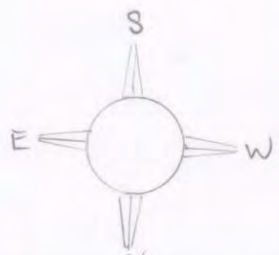
wells

x

x

x

x



- Follow Up Procedures**
1. Create "FieldData" folder within the appropriate site folder in the WASTE/ONSITE directory. (If you don't know where this is...ASK!)
 2. Scan form to PDF and save in FieldData folder, using the name convention **Location - Field Notes (Date)** [e.g. PD30 - Field Notes (01-03-2012)]
 3. Create "Photos" folder within FieldData folder and insert all photos taken during sampling event. Do not create a second Photos folder if one already exists. Use the camera wizard for consistent naming of photos. [e.g. PD30 - Pit Sampling (01-03-2012)]
 4. Create GDB (garmin format) file from collected GPS data. GDB file should include all samples collected on a given day in one file. Copy GDB file to identified "mapsource" file using established naming format. [e.g. Walsh Sampling (01-03-2012)]



PICEANCE BASIN
ENVIRONMENTAL COMPLIANCE GROUP
FIELD SAMPLING DATA FORM

Document No:
ECG - F001.2

Revised By - Date:
C. Hines - 01/09/12

Reviewed By - Date:
B. Middleton - 01/09/12

Approved By - Date:
C. Hines - 01/09/12

ALL soil samples collected on behalf of Encana's Parachute Field Office must be documented on the ECG Field Sample Data Form.

NAMING CONVENTION: All "Sample IDs" used in this form, or with the lab's COC must conform with the following naming format: **Location - Sampling Matrix - Date**

Sample Matrix types must include these base descriptions or listed abbreviations: (other notations/abbreviations may be used in addition):

PS (Pit Spoil) | **MOI** (Material of Interest) | **S** (Spill) | **PB** (Pit Bottom) | **BG** (Background) | **CUT** (Cuttings) | **WC** (Waste Characterization)

Multiple samples collected from the same sampling matrix on the same location should include a cardinal direction abbreviation as part of the sampling matrix:

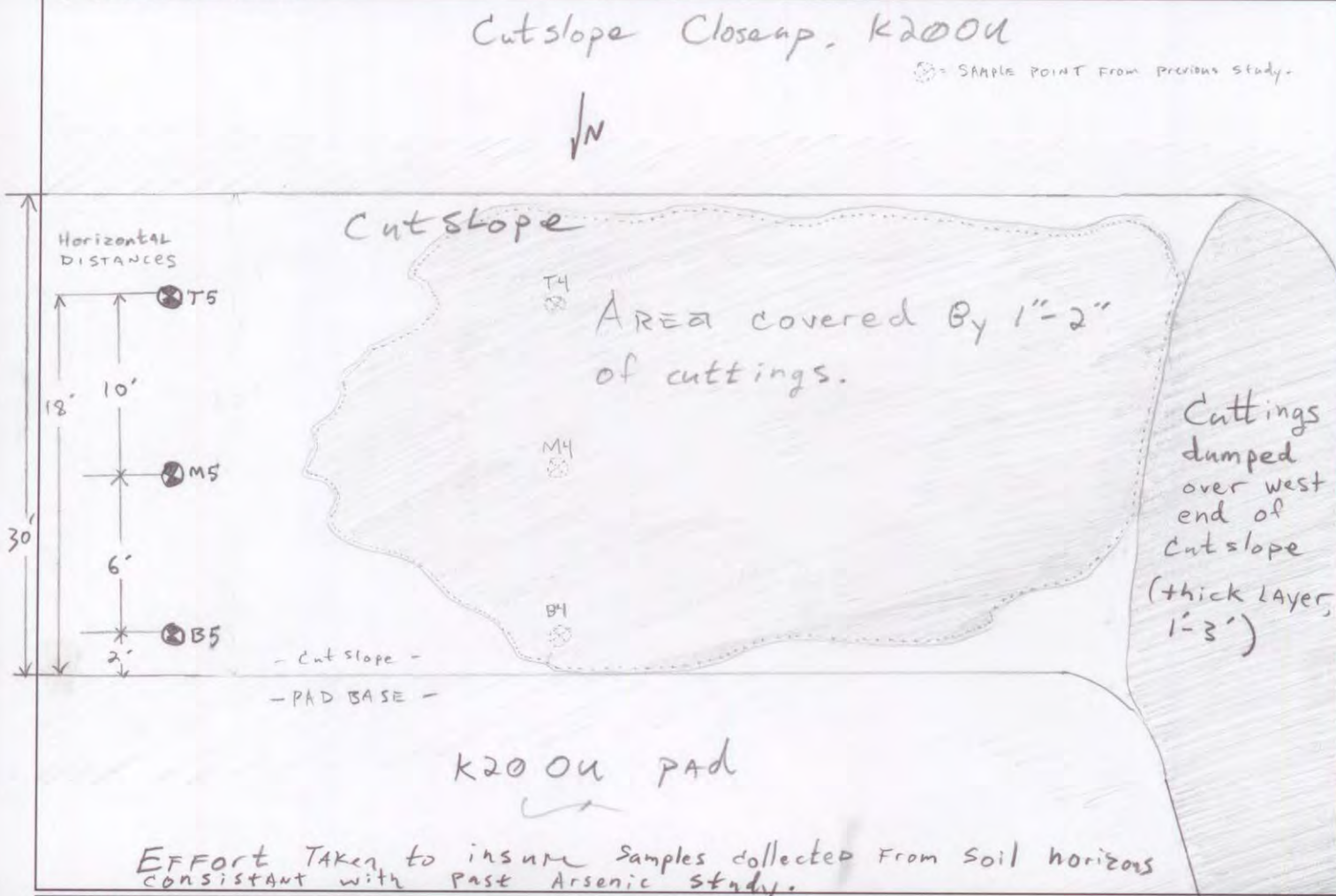
(e.g. PD30-BGNW-010312, PD30-BGS-010312, PD30-CUTW-010312)

Sampler: GARRETT WALTSAK		Location: K200U		Date of Sample: 3/21/12							
Sample ID:		Time of Sample:		Lat: (WGS 84 - decimal degrees)		Long: (WGS 84 - decimal degrees)		# of containers:		Composite or Grab:	

Sample Documentation Procedure

1. **PHOTOS** - An adequate number to provide sample location in the context of the pad and to illustrate depth and texture of collected material.
2. **GPS** - A track must be taken while driving to the sampling location and while sampling. Waypoints must be taken at every sample point (composite or grab).
3. **NOTES** - Prepare sampling notes and site sketch below (Include sample locations, media dimensions, other waste not previously identified, estimated volumes of all waste on location, color and texture of sampled material, and depth of sample collection).

Sampling Notes / Site Sketch



Follow Up Procedures

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FIELD SAMPLING DATA FORM

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(e.g. PD30-BGNW-010312, PD30-BGS-010312, PD30-CUTW-010312)

Sampler: **GARRETT WALTSAK**

Location: **K200U**

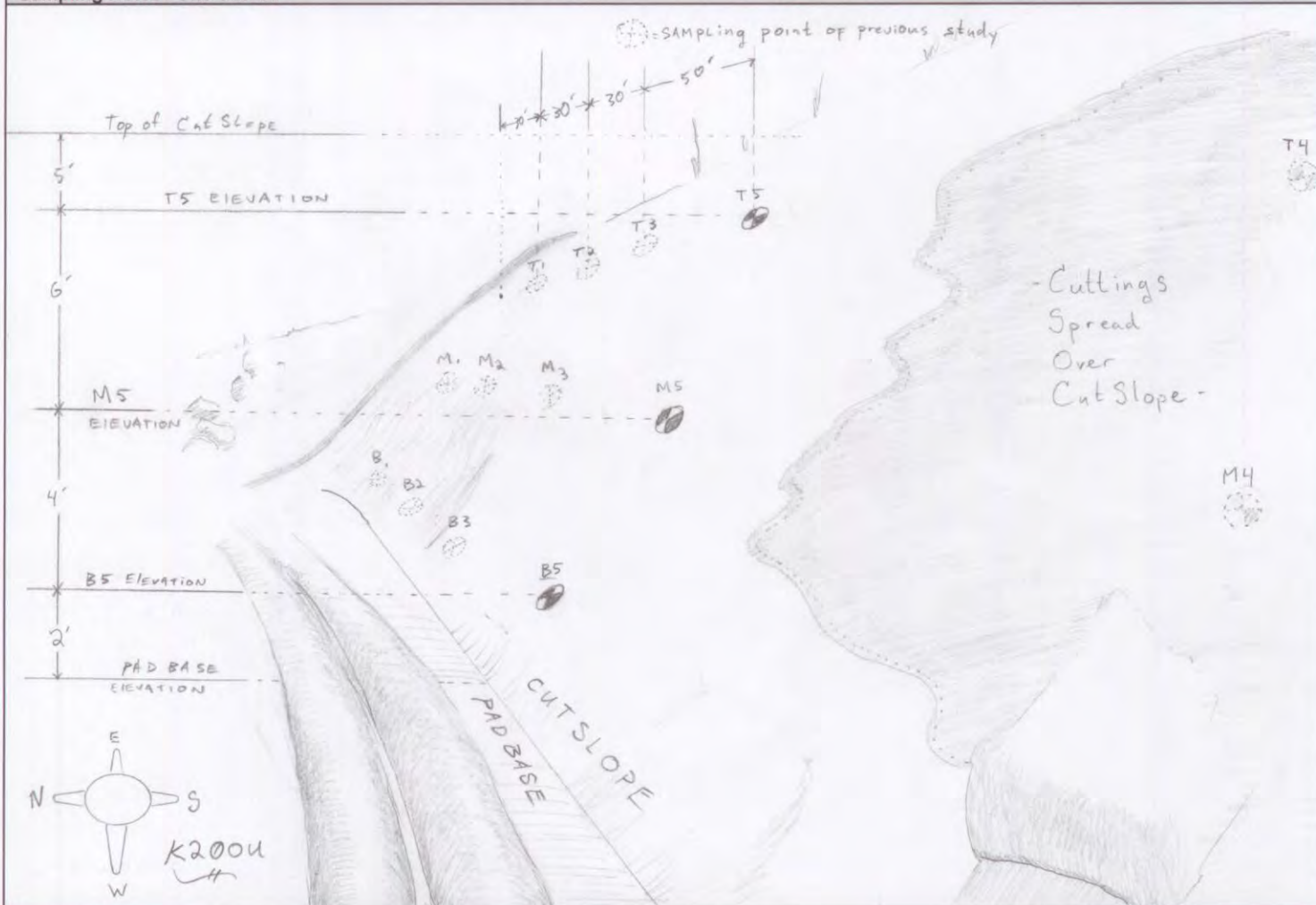
Date of Sample: **3/21/12**

Sample ID:	Time of Sample:	Lat: (WGS 84 - decimal degrees)	Long: (WGS 84 - decimal degrees)	# of containers:	Composite or Grab:

Sample Documentation Procedure

1. **PHOTOS** - An adequate number to provide sample location in the context of the pad and to illustrate depth and texture of collected material.
2. **GPS** - A track must be taken while driving to the sampling location and while sampling. Waypoints must be taken at every sample point (composite or grab).
3. **NOTES** - Prepare sampling notes and site sketch below (Include sample locations, media dimensions, other waste not previously identified, estimated volumes of all waste on location, color and texture of sampled material, and depth of sample collection).

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(e.g. PD30-BGNW-010312, PD30-BGS-010312, PD30-CUTW-010312)

Sampler: GARRETT WALTSAK

Location: K200U

Date of Sample: 3/21/12

Sample ID:	Time of Sample:	Lat: (WGS 84 - decimal degrees)	Long: (WGS 84 - decimal degrees)	# of containers:	Composite or Grab:

Sample Documentation Procedure

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Sampling Notes / Site Sketch

5th Sample
From Top
Soil
Horizon
T=Top
M=Middle B=Bottom

SAMPLE ID = K200U-CS-T5-032112

PAD NAME

Cut Slope

DATE CODE

Follow Up Procedures

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

Report Summary

Thursday January 12, 2012

Report Number: L554781

Samples Received: 01/07/12

Client Project:

Description: K200U Sampling

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

Entire Report Reviewed By:

Jayred Willis , ESC Representative

Laboratory Certification Numbers

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

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

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

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REPORT OF ANALYSIS

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

January 12, 2012

Date Received : January 07, 2012
Description : K200U Sampling
Sample ID : K200U-BG-CS-T1-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 11:15

ESC Sample # : L554781-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	01/11/12	1
Chromium, Trivalent	11.	0.50	mg/kg	Calc.	01/09/12	1
ORP	35.		mV	2580	01/10/12	1
pH	8.2		su	9045D	01/10/12	1
Sodium Adsorption Ratio	0.98			Calc.	01/11/12	1
Specific Conductance	210		umhos/cm	9050AMod	01/10/12	1
Mercury	BDL	0.020	mg/kg	7471	01/10/12	1
Arsenic	13.	5.0	mg/kg	6010B	01/09/12	5
Barium	210	0.25	mg/kg	6010B	01/09/12	1
Cadmium	BDL	0.25	mg/kg	6010B	01/09/12	1
Chromium	11.	0.50	mg/kg	6010B	01/09/12	1
Copper	7.7	1.0	mg/kg	6010B	01/09/12	1
Lead	8.3	1.2	mg/kg	6010B	01/09/12	5
Nickel	12.	5.0	mg/kg	6010B	01/09/12	5
Selenium	BDL	5.0	mg/kg	6010B	01/09/12	5
Silver	BDL	0.50	mg/kg	6010B	01/09/12	1
Zinc	25.	1.5	mg/kg	6010B	01/09/12	1
Benzene	BDL	0.0025	mg/kg	8021/8015	01/08/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	01/08/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	01/08/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	01/08/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	01/08/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	94.3		% Rec.	8021/8015	01/08/12	5
a,a,a-Trifluorotoluene(PID)	94.9		% Rec.	8021/8015	01/08/12	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	01/10/12	1
Surrogate recovery(%)						
o-Terphenyl	53.8		% Rec.	3546/DRO	01/10/12	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L554781-01 (PH) - 8.17@18.3c



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Parachute, CO 81635

January 12, 2012

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Collected By : SRM/RGW
Collection Date : 01/06/12 11:15

ESC Sample # : L554781-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Naphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
1-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
2-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Surrogate Recovery						
Nitrobenzene-d5	86.7		% Rec.	8270C-SIM	01/08/12	1
2-Fluorobiphenyl	87.7		% Rec.	8270C-SIM	01/08/12	1
p-Terphenyl-d14	59.3		% Rec.	8270C-SIM	01/08/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 01/12/12 16:38 Printed: 01/12/12 16:43
L554781-01 (PH) - 8.17@18.3c

REPORT OF ANALYSIS

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

January 12, 2012

Date Received : January 07, 2012
Description : K200U Sampling
Sample ID : K200U-BG-CS-T2-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 11:30

ESC Sample # : L554781-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	01/11/12	1
Chromium, Trivalent	15.	0.50	mg/kg	Calc.	01/09/12	1
ORP	43.		mV	2580	01/10/12	1
pH	8.5		su	9045D	01/10/12	1
Sodium Adsorption Ratio	4.2			Calc.	01/11/12	1
Specific Conductance	180		umhos/cm	9050AMod	01/10/12	1
Mercury	BDL	0.020	mg/kg	7471	01/10/12	1
Arsenic	29.	5.0	mg/kg	6010B	01/09/12	5
Barium	280	0.25	mg/kg	6010B	01/09/12	1
Cadmium	BDL	0.25	mg/kg	6010B	01/09/12	1
Chromium	15.	0.50	mg/kg	6010B	01/09/12	1
Copper	8.1	1.0	mg/kg	6010B	01/09/12	1
Lead	8.2	1.2	mg/kg	6010B	01/09/12	5
Nickel	14.	5.0	mg/kg	6010B	01/09/12	5
Selenium	BDL	10.	mg/kg	6010B	01/10/12	10
Silver	BDL	0.50	mg/kg	6010B	01/09/12	1
Zinc	20.	1.5	mg/kg	6010B	01/09/12	1
Benzene	BDL	0.0025	mg/kg	8021/8015	01/08/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	01/08/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	01/08/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	01/08/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	01/08/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	94.5		% Rec.	8021/8015	01/08/12	5
a,a,a-Trifluorotoluene(PID)	95.2		% Rec.	8021/8015	01/08/12	5
TPH (GC/FID) High Fraction	4.4	4.0	mg/kg	3546/DRO	01/10/12	1
Surrogate recovery(%)						
o-Terphenyl	58.8		% Rec.	3546/DRO	01/10/12	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L554781-02 (PH) - 8.48@18.4c



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2717 County Road 215, Suite 100
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January 12, 2012

Date Received : January 07, 2012
Description : K200U Sampling
Sample ID : K200U-BG-CS-T2-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 11:30

ESC Sample # : L554781-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Naphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
1-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
2-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Surrogate Recovery						
Nitrobenzene-d5	99.9		% Rec.	8270C-SIM	01/08/12	1
2-Fluorobiphenyl	97.7		% Rec.	8270C-SIM	01/08/12	1
p-Terphenyl-d14	71.2		% Rec.	8270C-SIM	01/08/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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L554781-02 (PH) - 8.48@18.4c

REPORT OF ANALYSIS

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

January 12, 2012

Date Received : January 07, 2012
Description : K200U Sampling
Sample ID : K200U-BG-CS-T3-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 11:45

ESC Sample # : L554781-03

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	01/11/12	1
Chromium, Trivalent	11.	0.50	mg/kg	Calc.	01/09/12	1
ORP	53.		mV	2580	01/10/12	1
pH	8.5		su	9045D	01/10/12	1
Sodium Adsorption Ratio	1.1			Calc.	01/11/12	1
Specific Conductance	240		umhos/cm	9050AMod	01/10/12	1
Mercury	BDL	0.020	mg/kg	7471	01/10/12	1
Arsenic	20.	5.0	mg/kg	6010B	01/09/12	5
Barium	600	0.25	mg/kg	6010B	01/09/12	1
Cadmium	BDL	0.25	mg/kg	6010B	01/09/12	1
Chromium	11.	0.50	mg/kg	6010B	01/09/12	1
Copper	6.8	1.0	mg/kg	6010B	01/09/12	1
Lead	6.2	1.2	mg/kg	6010B	01/09/12	5
Nickel	10.	5.0	mg/kg	6010B	01/09/12	5
Selenium	BDL	5.0	mg/kg	6010B	01/09/12	5
Silver	BDL	0.50	mg/kg	6010B	01/09/12	1
Zinc	16.	1.5	mg/kg	6010B	01/09/12	1
Benzene	BDL	0.0025	mg/kg	8021/8015	01/08/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	01/08/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	01/08/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	01/08/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	01/08/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	94.3		% Rec.	8021/8015	01/08/12	5
a,a,a-Trifluorotoluene(PID)	94.5		% Rec.	8021/8015	01/08/12	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	01/10/12	1
Surrogate recovery(%)						
o-Terphenyl	55.9		% Rec.	3546/DRO	01/10/12	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L554781-03 (PH) - 8.47@18.1c



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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

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

January 12, 2012

Date Received : January 07, 2012
Description : K200U Sampling
Sample ID : K200U-BG-CS-T3-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 11:45

ESC Sample # : L554781-03

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Naphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
1-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
2-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Surrogate Recovery						
Nitrobenzene-d5	94.0		% Rec.	8270C-SIM	01/08/12	1
2-Fluorobiphenyl	88.6		% Rec.	8270C-SIM	01/08/12	1
p-Terphenyl-d14	53.7		% Rec.	8270C-SIM	01/08/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L554781-03 (PH) - 8.47@18.1c

REPORT OF ANALYSIS

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

January 12, 2012

Date Received : January 07, 2012
Description : K200U Sampling
Sample ID : K200U-BG-CS-B1-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 12:00

ESC Sample # : L554781-04

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	01/11/12	1
Chromium, Trivalent	26.	0.50	mg/kg	Calc.	01/09/12	1
ORP	42.		mV	2580	01/10/12	1
pH	9.0		su	9045D	01/10/12	1
Sodium Adsorption Ratio	3.5			Calc.	01/11/12	1
Specific Conductance	190		umhos/cm	9050AMod	01/10/12	1
Mercury	BDL	0.020	mg/kg	7471	01/10/12	1
Arsenic	17.	5.0	mg/kg	6010B	01/09/12	5
Barium	280	0.25	mg/kg	6010B	01/09/12	1
Cadmium	BDL	0.25	mg/kg	6010B	01/09/12	1
Chromium	26.	0.50	mg/kg	6010B	01/09/12	1
Copper	17.	1.0	mg/kg	6010B	01/09/12	1
Lead	10.	1.2	mg/kg	6010B	01/09/12	5
Nickel	23.	5.0	mg/kg	6010B	01/09/12	5
Selenium	BDL	5.0	mg/kg	6010B	01/09/12	5
Silver	BDL	0.50	mg/kg	6010B	01/09/12	1
Zinc	42.	1.5	mg/kg	6010B	01/09/12	1
Benzene	BDL	0.0025	mg/kg	8021/8015	01/08/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	01/08/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	01/08/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	01/08/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	01/08/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	94.3		% Rec.	8021/8015	01/08/12	5
a,a,a-Trifluorotoluene(PID)	95.3		% Rec.	8021/8015	01/08/12	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	01/10/12	1
Surrogate recovery(%)						
o-Terphenyl	60.1		% Rec.	3546/DRO	01/10/12	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L554781-04 (PH) - 8.98@18.2c



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REPORT OF ANALYSIS

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

January 12, 2012

Date Received : January 07, 2012
Description : K200U Sampling
Sample ID : K200U-BG-CS-B1-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 12:00

ESC Sample # : L554781-04

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Naphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
1-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
2-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Surrogate Recovery						
Nitrobenzene-d5	88.6		% Rec.	8270C-SIM	01/08/12	1
2-Fluorobiphenyl	91.3		% Rec.	8270C-SIM	01/08/12	1
p-Terphenyl-d14	86.8		% Rec.	8270C-SIM	01/08/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

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

January 12, 2012

Date Received : January 07, 2012
Description : K200U Sampling
Sample ID : K200U-BG-CS-B2-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 12:15

ESC Sample # : L554781-05

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	01/11/12	1
Chromium, Trivalent	24.	0.50	mg/kg	Calc.	01/09/12	1
ORP	53.		mV	2580	01/10/12	1
pH	8.7		su	9045D	01/10/12	1
Sodium Adsorption Ratio	1.2			Calc.	01/11/12	1
Specific Conductance	160		umhos/cm	9050AMod	01/10/12	1
Mercury	0.022	0.020	mg/kg	7471	01/10/12	1
Arsenic	24.	5.0	mg/kg	6010B	01/09/12	5
Barium	340	0.25	mg/kg	6010B	01/09/12	1
Cadmium	0.25	0.25	mg/kg	6010B	01/09/12	1
Chromium	24.	0.50	mg/kg	6010B	01/09/12	1
Copper	22.	1.0	mg/kg	6010B	01/09/12	1
Lead	13.	1.2	mg/kg	6010B	01/09/12	5
Nickel	20.	5.0	mg/kg	6010B	01/09/12	5
Selenium	BDL	5.0	mg/kg	6010B	01/09/12	5
Silver	BDL	0.50	mg/kg	6010B	01/09/12	1
Zinc	46.	1.5	mg/kg	6010B	01/09/12	1
Benzene	BDL	0.0025	mg/kg	8021/8015	01/08/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	01/08/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	01/08/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	01/08/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	01/08/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	94.4		% Rec.	8021/8015	01/08/12	5
a,a,a-Trifluorotoluene(PID)	95.0		% Rec.	8021/8015	01/08/12	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	01/10/12	1
Surrogate recovery(%)						
o-Terphenyl	67.8		% Rec.	3546/DRO	01/10/12	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L554781-05 (PH) - 8.74@18.1c



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REPORT OF ANALYSIS

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

January 12, 2012

Date Received : January 07, 2012
Description : K200U Sampling
Sample ID : K200U-BG-CS-B2-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 12:15

ESC Sample # : L554781-05

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Naphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
1-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
2-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Surrogate Recovery						
Nitrobenzene-d5	95.7		% Rec.	8270C-SIM	01/08/12	1
2-Fluorobiphenyl	96.0		% Rec.	8270C-SIM	01/08/12	1
p-Terphenyl-d14	73.4		% Rec.	8270C-SIM	01/08/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

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

January 12, 2012

Date Received : January 07, 2012
Description : K200U Sampling
Sample ID : K200U-BG-CS-B3-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 12:30

ESC Sample # : L554781-06

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	01/11/12	1
Chromium, Trivalent	28.	0.50	mg/kg	Calc.	01/09/12	1
ORP	48.		mV	2580	01/10/12	1
pH	9.1		su	9045D	01/10/12	1
Sodium Adsorption Ratio	17.			Calc.	01/11/12	1
Specific Conductance	250		umhos/cm	9050AMod	01/10/12	1
Mercury	BDL	0.020	mg/kg	7471	01/10/12	1
Arsenic	12.	1.0	mg/kg	6010B	01/09/12	1
Barium	210	0.25	mg/kg	6010B	01/09/12	1
Cadmium	BDL	0.25	mg/kg	6010B	01/09/12	1
Chromium	28.	0.50	mg/kg	6010B	01/09/12	1
Copper	16.	1.0	mg/kg	6010B	01/09/12	1
Lead	14.	0.25	mg/kg	6010B	01/09/12	1
Nickel	23.	1.0	mg/kg	6010B	01/09/12	1
Selenium	BDL	5.0	mg/kg	6010B	01/09/12	5
Silver	BDL	0.50	mg/kg	6010B	01/09/12	1
Zinc	44.	1.5	mg/kg	6010B	01/09/12	1
Benzene	BDL	0.0025	mg/kg	8021/8015	01/08/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	01/08/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	01/08/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	01/08/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	01/08/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	94.6		% Rec.	8021/8015	01/08/12	5
a,a,a-Trifluorotoluene(PID)	94.2		% Rec.	8021/8015	01/08/12	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	01/10/12	1
Surrogate recovery(%)						
o-Terphenyl	65.2		% Rec.	3546/DRO	01/10/12	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L554781-06 (PH) - 9.06@18.3c



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REPORT OF ANALYSIS

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

January 12, 2012

Date Received : January 07, 2012
Description : K200U Sampling
Sample ID : K200U-BG-CS-B3-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 12:30

ESC Sample # : L554781-06

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Naphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
1-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
2-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Surrogate Recovery						
Nitrobenzene-d5	95.7		% Rec.	8270C-SIM	01/08/12	1
2-Fluorobiphenyl	88.8		% Rec.	8270C-SIM	01/08/12	1
p-Terphenyl-d14	75.7		% Rec.	8270C-SIM	01/08/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L554781-06 (PH) - 9.06@18.3c

REPORT OF ANALYSIS

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

January 12, 2012

Date Received : January 07, 2012
Description : K200U Sampling
Sample ID : K200U-S1-B-010612 1-2IN
Collected By : SRM/RGW
Collection Date : 01/06/12 12:45

ESC Sample # : L554781-07

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	01/11/12	1
Chromium, Trivalent	22.	0.50	mg/kg	Calc.	01/09/12	1
ORP	86.		mV	2580	01/10/12	1
pH	8.1		su	9045D	01/10/12	1
Sodium Adsorption Ratio	30.			Calc.	01/11/12	1
Specific Conductance	5800		umhos/cm	9050AMod	01/10/12	1
Mercury	BDL	0.020	mg/kg	7471	01/10/12	1
Arsenic	9.4	1.0	mg/kg	6010B	01/09/12	1
Barium	530	0.25	mg/kg	6010B	01/09/12	1
Cadmium	BDL	0.25	mg/kg	6010B	01/09/12	1
Chromium	22.	0.50	mg/kg	6010B	01/09/12	1
Copper	19.	1.0	mg/kg	6010B	01/09/12	1
Lead	11.	0.25	mg/kg	6010B	01/09/12	1
Nickel	20.	1.0	mg/kg	6010B	01/09/12	1
Selenium	BDL	5.0	mg/kg	6010B	01/09/12	5
Silver	BDL	0.50	mg/kg	6010B	01/09/12	1
Zinc	43.	1.5	mg/kg	6010B	01/09/12	1
Benzene	BDL	0.0025	mg/kg	8021/8015	01/08/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	01/08/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	01/08/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	01/08/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	01/08/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	94.4		% Rec.	8021/8015	01/08/12	5
a,a,a-Trifluorotoluene(PID)	94.9		% Rec.	8021/8015	01/08/12	5
TPH (GC/FID) High Fraction	BDL	12.	mg/kg	3546/DRO	01/11/12	3.1
Surrogate recovery(%)						
o-Terphenyl	66.6		% Rec.	3546/DRO	01/11/12	3.1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L554781-07 (DRO) - Diluted during the extraction process
L554781-07 (PH) - 8.12@18.5c



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

January 12, 2012

Date Received : January 07, 2012
Description : K200U Sampling
Sample ID : K200U-S1-B-010612 1-2IN
Collected By : SRM/RGW
Collection Date : 01/06/12 12:45

ESC Sample # : L554781-07

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Naphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
1-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
2-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Surrogate Recovery						
Nitrobenzene-d5	82.4		% Rec.	8270C-SIM	01/08/12	1
2-Fluorobiphenyl	80.1		% Rec.	8270C-SIM	01/08/12	1
p-Terphenyl-d14	55.1		% Rec.	8270C-SIM	01/08/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 01/12/12 16:38 Printed: 01/12/12 16:43
L554781-07 (DRO) - Diluted during the extraction process
L554781-07 (PH) - 8.12@18.5c

REPORT OF ANALYSIS

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

January 12, 2012

Date Received : January 07, 2012
Description : K200U Sampling
Sample ID : K200U-S2-B-010612 1-2IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:00

ESC Sample # : L554781-08

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	01/11/12	1
Chromium, Trivalent	22.	0.50	mg/kg	Calc.	01/09/12	1
ORP	91.		mV	2580	01/10/12	1
pH	8.1		su	9045D	01/10/12	1
Sodium Adsorption Ratio	0.70			Calc.	01/11/12	1
Specific Conductance	4100		umhos/cm	9050AMod	01/10/12	1
Mercury	BDL	0.020	mg/kg	7471	01/10/12	1
Arsenic	12.	1.0	mg/kg	6010B	01/09/12	1
Barium	390	0.25	mg/kg	6010B	01/09/12	1
Cadmium	BDL	0.25	mg/kg	6010B	01/09/12	1
Chromium	22.	0.50	mg/kg	6010B	01/09/12	1
Copper	16.	1.0	mg/kg	6010B	01/09/12	1
Lead	9.6	0.25	mg/kg	6010B	01/09/12	1
Nickel	17.	1.0	mg/kg	6010B	01/09/12	1
Selenium	BDL	5.0	mg/kg	6010B	01/09/12	5
Silver	BDL	0.50	mg/kg	6010B	01/09/12	1
Zinc	43.	1.5	mg/kg	6010B	01/09/12	1
Benzene	BDL	0.0025	mg/kg	8021/8015	01/08/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	01/08/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	01/08/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	01/08/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	01/08/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	94.4		% Rec.	8021/8015	01/08/12	5
a,a,a-Trifluorotoluene(PID)	94.6		% Rec.	8021/8015	01/08/12	5
TPH (GC/FID) High Fraction	BDL	17.	mg/kg	3546/DRO	01/11/12	4.3
Surrogate recovery(%)						
o-Terphenyl	61.4		% Rec.	3546/DRO	01/11/12	4.3
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L554781-08 (DRO) - Diluted during the extraction process
L554781-08 (PH) - 8.08@18.3c



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Est. 1970

REPORT OF ANALYSIS

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

January 12, 2012

Date Received : January 07, 2012
Description : K200U Sampling
Sample ID : K200U-S2-B-010612 1-2IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:00

ESC Sample # : L554781-08

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Naphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
1-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
2-Methylnaphthalene	0.0066	0.0060	mg/kg	8270C-SIM	01/08/12	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/08/12	1
Surrogate Recovery						
Nitrobenzene-d5	92.5		% Rec.	8270C-SIM	01/08/12	1
2-Fluorobiphenyl	79.5		% Rec.	8270C-SIM	01/08/12	1
p-Terphenyl-d14	62.1		% Rec.	8270C-SIM	01/08/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 01/12/12 16:38 Printed: 01/12/12 16:43
L554781-08 (DRO) - Diluted during the extraction process
L554781-08 (PH) - 8.08@18.3c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L554781-01	WG573146	SAMP	Selenium	R1994233	O
	WG573400	SAMP	ORP	R1994952	T8
L554781-02	WG573146	SAMP	Selenium	R1994233	O
	WG573400	SAMP	ORP	R1994952	T8
L554781-03	WG573146	SAMP	Selenium	R1994233	O
	WG573400	SAMP	ORP	R1994952	T8
L554781-04	WG573146	SAMP	Selenium	R1994233	O
	WG573400	SAMP	ORP	R1994952	T8
L554781-05	WG573146	SAMP	Selenium	R1994233	O
	WG573400	SAMP	ORP	R1994952	T8
L554781-06	WG573146	SAMP	Selenium	R1994233	O
	WG573400	SAMP	ORP	R1994952	T8
L554781-07	WG573146	SAMP	Selenium	R1994233	O
	WG573400	SAMP	ORP	R1994952	T8
L554781-08	WG573470	SAMP	TPH (GC/FID) High Fraction	R1996992	O
	WG573146	SAMP	Selenium	R1994233	O
	WG573400	SAMP	ORP	R1994952	T8
	WG573470	SAMP	TPH (GC/FID) High Fraction	R1996992	O

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
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.
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.

Qualifier Report Information

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

Definitions

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

Summary of Remarks For Samples Printed
01/12/12 at 16:43:43

TSR Signing Reports: 358
R4 - Rush: Three Day

Try not to report benzene as BDL above a 250x dilution. ONLY log soil samples under this account. Waters get logged under ENCRCO.

Sample: L554781-01 Account: ENCANACO Received: 01/07/12 09:56 Due Date: 01/12/12 00:00 RPT Date: 01/12/12 16:38
Sample: L554781-02 Account: ENCANACO Received: 01/07/12 09:56 Due Date: 01/12/12 00:00 RPT Date: 01/12/12 16:38
Sample: L554781-03 Account: ENCANACO Received: 01/07/12 09:56 Due Date: 01/12/12 00:00 RPT Date: 01/12/12 16:38
Sample: L554781-04 Account: ENCANACO Received: 01/07/12 09:56 Due Date: 01/12/12 00:00 RPT Date: 01/12/12 16:38
Sample: L554781-05 Account: ENCANACO Received: 01/07/12 09:56 Due Date: 01/12/12 00:00 RPT Date: 01/12/12 16:38
Sample: L554781-06 Account: ENCANACO Received: 01/07/12 09:56 Due Date: 01/12/12 00:00 RPT Date: 01/12/12 16:38
Sample: L554781-07 Account: ENCANACO Received: 01/07/12 09:56 Due Date: 01/12/12 00:00 RPT Date: 01/12/12 16:38
Sample: L554781-08 Account: ENCANACO Received: 01/07/12 09:56 Due Date: 01/12/12 00:00 RPT Date: 01/12/12 16:38



YOUR LAB OF CHOICE

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Chris Hines / Matt Kasten
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Quality Assurance Report
Level II

L554781

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Tax I.D. 62-0814289

Est. 1970

January 12, 2012

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
1-Methylnaphthalene	< .006	mg/kg			WG573130	01/08/12 14:45
2-Chloronaphthalene	< .006	mg/kg			WG573130	01/08/12 14:45
2-Methylnaphthalene	< .006	mg/kg			WG573130	01/08/12 14:45
Acenaphthene	< .006	mg/kg			WG573130	01/08/12 14:45
Acenaphthylene	< .006	mg/kg			WG573130	01/08/12 14:45
Anthracene	< .006	mg/kg			WG573130	01/08/12 14:45
Benzo(a)anthracene	< .006	mg/kg			WG573130	01/08/12 14:45
Benzo(a)pyrene	< .006	mg/kg			WG573130	01/08/12 14:45
Benzo(b)fluoranthene	< .006	mg/kg			WG573130	01/08/12 14:45
Benzo(g,h,i)perylene	< .006	mg/kg			WG573130	01/08/12 14:45
Benzo(k)fluoranthene	< .006	mg/kg			WG573130	01/08/12 14:45
Chrysene	< .006	mg/kg			WG573130	01/08/12 14:45
Dibenz(a,h)anthracene	< .006	mg/kg			WG573130	01/08/12 14:45
Fluoranthene	< .006	mg/kg			WG573130	01/08/12 14:45
Fluorene	< .006	mg/kg			WG573130	01/08/12 14:45
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG573130	01/08/12 14:45
Naphthalene	< .006	mg/kg			WG573130	01/08/12 14:45
Phenanthrene	< .006	mg/kg			WG573130	01/08/12 14:45
Pyrene	< .006	mg/kg			WG573130	01/08/12 14:45
2-Fluorobiphenyl		% Rec.	92.93	34-129	WG573130	01/08/12 14:45
Nitrobenzene-d5		% Rec.	89.58	14-141	WG573130	01/08/12 14:45
p-Terphenyl-d14		% Rec.	82.62	25-139	WG573130	01/08/12 14:45
Benzene	< .0005	mg/kg			WG573173	01/08/12 00:18
Ethylbenzene	< .0005	mg/kg			WG573173	01/08/12 00:18
Toluene	< .005	mg/kg			WG573173	01/08/12 00:18
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG573173	01/08/12 00:18
Total Xylene	< .0015	mg/kg			WG573173	01/08/12 00:18
a,a,a-Trifluorotoluene(FID)		% Rec.	95.24	59-128	WG573173	01/08/12 00:18
a,a,a-Trifluorotoluene(PID)		% Rec.	94.89	54-144	WG573173	01/08/12 00:18
Arsenic	< 1	mg/kg			WG573146	01/09/12 15:42
Barium	< .25	mg/kg			WG573146	01/09/12 15:42
Cadmium	< .25	mg/kg			WG573146	01/09/12 15:42
Chromium	< .5	mg/kg			WG573146	01/09/12 15:42
Copper	< 1	mg/kg			WG573146	01/09/12 15:42
Lead	< .25	mg/kg			WG573146	01/09/12 15:42
Nickel	< 1	mg/kg			WG573146	01/09/12 15:42
Silver	< .5	mg/kg			WG573146	01/09/12 15:42
Zinc	< 1.5	mg/kg			WG573146	01/09/12 15:42
pH	6.90	su			WG573344	01/10/12 11:25
Mercury	< .02	mg/kg			WG573147	01/10/12 09:45
Mercury	< .02	mg/kg			WG573148	01/10/12 11:13
Specific Conductance	1.30	umhos/cm			WG573179	01/10/12 16:40
TPH (GC/FID) High Fraction	< 4	ppm			WG573131	01/10/12 09:00
o-Terphenyl		% Rec.	69.66	50-150	WG573131	01/10/12 09:00

* Performance of this Analyte is outside of established criteria.

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



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Tax I.D. 62-0814289

Est. 1970

January 12, 2012

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Chromium,Hexavalent	< 2	mg/kg			WG573347	01/11/12 14:56
TPH (GC/FID) High Fraction	< 4	ppm			WG573470	01/11/12 11:07
o-Terphenyl		% Rec.	73.76	50-150	WG573470	01/11/12 11:07

Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
Barium	mg/kg	34.0	24.0	34.5*	20	L554663-01	WG573146
Cadmium	mg/kg	0.260	0	NA	20	L554663-01	WG573146
Chromium	mg/kg	7.90	8.00	1.77	20	L554663-01	WG573146
Copper	mg/kg	11.0	8.79	18.7	20	L554663-01	WG573146
Silver	mg/kg	0	0	0	20	L554663-01	WG573146
Zinc	mg/kg	40.0	33.4	18.2	20	L554663-01	WG573146
Arsenic	mg/kg	13.0	13.0	3.13	20	L554663-01	WG573146
Lead	mg/kg	16.0	17.0	4.82	20	L554663-01	WG573146
Nickel	mg/kg	12.0	10.1	13.0	20	L554663-01	WG573146
Selenium	mg/kg	0	0	0	20	L554663-01	WG573146
pH	su	8.20	8.20	0.367	1	L554781-01	WG573344
pH	su	7.00	7.00	0	1	L554875-09	WG573344
Mercury	mg/kg	0	0.0140	NA	20	L554656-06	WG573148
Mercury	mg/kg	0	0	0	20	L554781-04	WG573147
ORP	mV	0	0	0	20	L554611-01	WG573400
ORP	mV	44.0	42.0	4.65	20	L554781-04	WG573400
Specific Conductance	umhos/cm	2200	2200	2.25	20	L554746-01	WG573179
Specific Conductance	umhos/cm	3600	4100	11.6	20	L554781-08	WG573179
Chromium,Hexavalent	mg/kg	0	0.720	NA	20	L554226-01	WG573347
Chromium,Hexavalent	mg/kg	0	0	0	20	L554781-02	WG573347

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
1-Methylnaphthalene	mg/kg	.033	0.0281	85.1	48-113	WG573130
2-Chloronaphthalene	mg/kg	.033	0.0272	82.4	51-114	WG573130
2-Methylnaphthalene	mg/kg	.033	0.0277	83.8	44-109	WG573130
Acenaphthene	mg/kg	.033	0.0254	77.0	52-108	WG573130
Acenaphthylene	mg/kg	.033	0.0269	81.5	51-110	WG573130
Anthracene	mg/kg	.033	0.0276	83.8	58-120	WG573130
Benzo(a)anthracene	mg/kg	.033	0.0287	87.1	54-110	WG573130
Benzo(a)pyrene	mg/kg	.033	0.0264	79.9	56-118	WG573130
Benzo(b)fluoranthene	mg/kg	.033	0.0270	81.7	55-114	WG573130
Benzo(g,h,i)perylene	mg/kg	.033	0.0246	74.5	48-130	WG573130
Benzo(k)fluoranthene	mg/kg	.033	0.0272	82.4	55-122	WG573130
Chrysene	mg/kg	.033	0.0274	82.9	57-118	WG573130
Dibenz(a,h)anthracene	mg/kg	.033	0.0241	72.9	53-122	WG573130

* Performance of this Analyte is outside of established criteria.

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



YOUR LAB OF CHOICE

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Chris Hines / Matt Kasten
2717 County Road 215, Suite 100

Parachute, CO 81635

Quality Assurance Report
Level II

L554781

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

January 12, 2012

Analyte	Units	Laboratory Control	Sample	% Rec	Limit	Batch
		Known Val	Result			
Fluoranthene	mg/kg	.033	0.0279	84.4	58-118	WG573130
Fluorene	mg/kg	.033	0.0269	81.5	54-109	WG573130
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.0248	75.2	51-125	WG573130
Naphthalene	mg/kg	.033	0.0263	79.6	45-105	WG573130
Phenanthrene	mg/kg	.033	0.0279	84.6	53-114	WG573130
Pyrene	mg/kg	.033	0.0251	76.0	53-121	WG573130
2-Fluorobiphenyl				83.55	34-129	WG573130
Nitrobenzene-d5				87.83	14-141	WG573130
p-Terphenyl-d14				80.28	25-139	WG573130
Benzene	mg/kg	.05	0.0473	94.6	76-113	WG573173
Ethylbenzene	mg/kg	.05	0.0478	95.6	78-115	WG573173
Toluene	mg/kg	.05	0.0501	100.	76-114	WG573173
Total Xylene	mg/kg	.15	0.137	91.4	81-118	WG573173
a,a,a-Trifluorotoluene(FID)				95.20	59-128	WG573173
a,a,a-Trifluorotoluene(PID)				94.21	54-144	WG573173
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.63	102.	67-135	WG573173
a,a,a-Trifluorotoluene(FID)				100.6	59-128	WG573173
a,a,a-Trifluorotoluene(PID)				105.8	54-144	WG573173
Arsenic	mg/kg	92.6	90.9	98.2	82.9-117	WG573146
Barium	mg/kg	169	174.	103.	82.8-117	WG573146
Cadmium	mg/kg	61.8	60.1	97.2	83.3-117	WG573146
Chromium	mg/kg	71.3	74.0	104.	81.8-118	WG573146
Copper	mg/kg	81.2	85.1	105.	83.9-116	WG573146
Lead	mg/kg	92.4	93.8	102.	83.3-117	WG573146
Nickel	mg/kg	59.1	60.2	102.	83.8-116	WG573146
Selenium	mg/kg	89.5	86.6	96.8	79-121	WG573146
Silver	mg/kg	34.4	34.9	101.	66.3-134	WG573146
Zinc	mg/kg	141	139.	98.6	80.9-119	WG573146
pH	su	7.98	8.07	101.*	98-101	WG573344
Mercury	mg/kg	3.77	2.87	76.1	71.6-128	WG573147
Mercury	mg/kg	3.77	3.02	80.1	71.6-128	WG573148
ORP	mV	229	230.	100.	95.6-104.37	WG573400
Specific Conductance	umhos/cm	350	350.	100.	85-115	WG573179
TPH (GC/FID) High Fraction	ppm	60	56.4	94.1	50-150	WG573131
o-Terphenyl				78.42	50-150	WG573131
Chromium,Hexavalent	mg/kg	203	148.	72.9	50-150	WG573347
TPH (GC/FID) High Fraction	ppm	60	52.7	87.8	50-150	WG573470
o-Terphenyl				73.50	50-150	WG573470

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Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
1-Methylnaphthalene	mg/kg	0.0274	0.0281	83.0	48-113	2.36	24	WG573130
2-Chloronaphthalene	mg/kg	0.0283	0.0272	86.0	51-114	4.14	24	WG573130
2-Methylnaphthalene	mg/kg	0.0278	0.0277	84.0	44-109	0.714	24	WG573130
Acenaphthene	mg/kg	0.0276	0.0254	84.0	52-108	8.31	22	WG573130
Acenaphthylene	mg/kg	0.0286	0.0269	87.0	51-110	6.31	21	WG573130
Anthracene	mg/kg	0.0288	0.0276	87.0	58-120	4.28	20	WG573130
Benzo(a)anthracene	mg/kg	0.0286	0.0287	87.0	54-110	0.413	22	WG573130
Benzo(a)pyrene	mg/kg	0.0293	0.0264	89.0	56-118	10.4	21	WG573130
Benzo(b)fluoranthene	mg/kg	0.0289	0.0270	88.0	55-114	6.90	20	WG573130
Benzo(g,h,i)perylene	mg/kg	0.0265	0.0246	80.0	48-130	7.61	20	WG573130
Benzo(k)fluoranthene	mg/kg	0.0308	0.0272	93.0	55-122	12.5	25	WG573130
Chrysene	mg/kg	0.0291	0.0274	88.0	57-118	6.31	20	WG573130
Dibenz(a,h)anthracene	mg/kg	0.0270	0.0241	82.0	53-122	11.5	20	WG573130
Fluoranthene	mg/kg	0.0302	0.0279	92.0	58-118	8.24	20	WG573130
Fluorene	mg/kg	0.0284	0.0269	86.0	54-109	5.53	20	WG573130
Indeno(1,2,3-cd)pyrene	mg/kg	0.0275	0.0248	83.0	51-125	10.2	21	WG573130
Naphthalene	mg/kg	0.0269	0.0263	82.0	45-105	2.51	24	WG573130
Phenanthrene	mg/kg	0.0301	0.0279	91.0	53-114	7.47	20	WG573130
Pyrene	mg/kg	0.0278	0.0251	84.0	53-121	10.2	20	WG573130
2-Fluorobiphenyl				86.97	34-129			WG573130
Nitrobenzene-d5				81.81	14-141			WG573130
p-Terphenyl-d14				76.62	25-139			WG573130
Benzene	mg/kg	0.0479	0.0473	96.0	76-113	1.26	20	WG573173
Ethylbenzene	mg/kg	0.0484	0.0478	97.0	78-115	1.25	20	WG573173
Toluene	mg/kg	0.0524	0.0501	105.	76-114	4.58	20	WG573173
Total Xylene	mg/kg	0.137	0.137	92.0	81-118	0.330	20	WG573173
a,a,a-Trifluorotoluene(FID)				95.31	59-128			WG573173
a,a,a-Trifluorotoluene(PID)				94.22	54-144			WG573173
TPH (GC/FID) Low Fraction	mg/kg	5.53	5.63	100.	67-135	1.68	20	WG573173
a,a,a-Trifluorotoluene(FID)				100.5	59-128			WG573173
a,a,a-Trifluorotoluene(PID)				106.2	54-144			WG573173
pH	su	8.04	8.07	101.	98-101	0.372	20	WG573344
ORP	mV	230.	230.	100.	95.6-104.37	0	20	WG573400
Specific Conductance	umhos/	350.	350.	100.	85-115	0	20	WG573179
TPH (GC/FID) High Fraction	ppm	47.5	56.4	79.0	50-150	17.1	20	WG573131
o-Terphenyl				67.59	50-150			WG573131
Chromium,Hexavalent	mg/kg	141.	148.	69.0	50-150	4.84	20	WG573347
TPH (GC/FID) High Fraction	ppm	51.5	52.7	86.0	50-150	2.35	20	WG573470
o-Terphenyl				72.89	50-150			WG573470

Analyte	Units	Matrix Spike			% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res	TV				
Benzene	mg/kg	0.192	0	.05	76.9	32-137	L554781-01	WG573173
Ethylbenzene	mg/kg	0.165	0	.05	66.0	10-150	L554781-01	WG573173
Toluene	mg/kg	0.195	0	.05	77.8	20-142	L554781-01	WG573173

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Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Total Xylene	mg/kg	0.469	0	.15	62.5	16-141	L554781-01	WG573173
a,a,a-Trifluorotoluene(FID)					94.39	59-128		WG573173
a,a,a-Trifluorotoluene(PID)					93.94	54-144		WG573173
TPH (GC/FID) Low Fraction	mg/kg	17.2	0	5.5	62.6	55-109	L554781-01	WG573173
a,a,a-Trifluorotoluene(FID)					96.73	59-128		WG573173
a,a,a-Trifluorotoluene(PID)					101.2	54-144		WG573173
Barium	mg/kg	69.2	24.0	50	90.4	75-125	L554663-01	WG573146
Cadmium	mg/kg	45.8	0	50	91.6	75-125	L554663-01	WG573146
Chromium	mg/kg	56.0	8.00	50	96.0	75-125	L554663-01	WG573146
Copper	mg/kg	59.9	8.79	50	102.	75-125	L554663-01	WG573146
Silver	mg/kg	51.3	0	50	103.	75-125	L554663-01	WG573146
Zinc	mg/kg	82.6	33.4	50	98.4	75-125	L554663-01	WG573146
Arsenic	mg/kg	60.9	13.0	10	95.8	75-125	L554663-01	WG573146
Lead	mg/kg	64.0	17.0	10	94.0	75-125	L554663-01	WG573146
Nickel	mg/kg	56.8	10.1	10	93.4	75-125	L554663-01	WG573146
Selenium	mg/kg	39.8	0	10	79.6	75-125	L554663-01	WG573146
1-Methylnaphthalene	mg/kg	1.02	0	.033	3080*	25-155	L554647-01	WG573130
2-Chloronaphthalene	mg/kg	0.0351	0	.033	106.	31-153	L554647-01	WG573130
2-Methylnaphthalene	mg/kg	2.35	0	.033	7110*	22-172	L554647-01	WG573130
Acenaphthene	mg/kg	0.0428	0.00880	.033	103.	43-133	L554647-01	WG573130
Acenaphthylene	mg/kg	0.0352	0	.033	107.	42-146	L554647-01	WG573130
Anthracene	mg/kg	0.0426	0	.033	129.	38-153	L554647-01	WG573130
Benzo(a)anthracene	mg/kg	0.0404	0	.033	122.	31-142	L554647-01	WG573130
Benzo(a)pyrene	mg/kg	0.0357	0	.033	108.	26-152	L554647-01	WG573130
Benzo(b)fluoranthene	mg/kg	0.0399	0	.033	121.	10-188	L554647-01	WG573130
Benzo(g,h,i)perylene	mg/kg	0.0256	0	.033	77.5	10-176	L554647-01	WG573130
Benzo(k)fluoranthene	mg/kg	0.0335	0	.033	101.	22-163	L554647-01	WG573130
Chrysene	mg/kg	0.0376	0	.033	114.	26-146	L554647-01	WG573130
Dibenz(a,h)anthracene	mg/kg	0.0254	0	.033	77.0	10-160	L554647-01	WG573130
Fluoranthene	mg/kg	0.0516	0.0120	.033	120.	23-160	L554647-01	WG573130
Fluorene	mg/kg	0.0507	0.0120	.033	117.	44-143	L554647-01	WG573130
Indeno(1,2,3-cd)pyrene	mg/kg	0.0259	0	.033	78.6	10-157	L554647-01	WG573130
Naphthalene	mg/kg	1.92	1.00	.033	2780*	22-156	L554647-01	WG573130
Phenanthrene	mg/kg	0.0573	0.0170	.033	122.	23-164	L554647-01	WG573130
Pyrene	mg/kg	0.0391	0.00860	.033	92.6	12-170	L554647-01	WG573130
2-Fluorobiphenyl					105.8	34-129		WG573130
Nitrobenzene-d5					112.2	14-141		WG573130
p-Terphenyl-d14					65.46	25-139		WG573130
Mercury	mg/kg	0.263	0.0140	.25	99.6	70-130	L554656-06	WG573148
Mercury	mg/kg	0.311	0	.25	124.	70-130	L554781-04	WG573147
TPH (GC/FID) High Fraction	ppm	41.8	0	60	69.7	50-150	L554710-10	WG573131
o-Terphenyl					71.62	50-150		WG573131
Chromium,Hexavalent	mg/kg	14.1	0.720	20	66.9	50-150	L554491-01	WG573347

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Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref	Samp	Batch
			Ref	%Rec						
Benzene	mg/kg	0.219	0.192	87.5	32-137	12.9	39	L554781-01	WG573173	
Ethylbenzene	mg/kg	0.202	0.165	80.7	10-150	20.1	44	L554781-01	WG573173	
Toluene	mg/kg	0.229	0.195	91.5	20-142	16.1	42	L554781-01	WG573173	
Total Xylene	mg/kg	0.569	0.469	75.9	16-141	19.3	46	L554781-01	WG573173	
a,a,a-Trifluorotoluene(FID)				94.59	59-128					WG573173
a,a,a-Trifluorotoluene(PID)				94.31	54-144					WG573173
TPH (GC/FID) Low Fraction	mg/kg	18.9	17.2	68.6	55-109	9.17	20	L554781-01	WG573173	
a,a,a-Trifluorotoluene(FID)				97.83	59-128					WG573173
a,a,a-Trifluorotoluene(PID)				101.0	54-144					WG573173
Barium	mg/kg	65.0	69.2	82.0	75-125	6.26	20	L554663-01	WG573146	
Cadmium	mg/kg	43.5	45.8	87.0	75-125	5.15	20	L554663-01	WG573146	
Chromium	mg/kg	54.8	56.0	93.6	75-125	2.17	20	L554663-01	WG573146	
Copper	mg/kg	56.8	59.9	96.0	75-125	5.31	20	L554663-01	WG573146	
Silver	mg/kg	48.6	51.3	97.2	75-125	5.41	20	L554663-01	WG573146	
Zinc	mg/kg	77.4	82.6	88.0	75-125	6.50	20	L554663-01	WG573146	
Arsenic	mg/kg	60.1	60.9	94.2	75-125	1.32	20	L554663-01	WG573146	
Lead	mg/kg	60.8	64.0	87.6	75-125	5.13	20	L554663-01	WG573146	
Nickel	mg/kg	59.9	56.8	99.6	75-125	5.31	20	L554663-01	WG573146	
Selenium	mg/kg	37.8	35.4	151.*	75-125	6.56	20	L554663-01	WG573146	
1-Methylnaphthalene	mg/kg	1.17	1.02	3550*	25-155	14.1	27	L554647-01	WG573130	
2-Chloronaphthalene	mg/kg	0.0352	0.0351	107.	31-153	0.319	22	L554647-01	WG573130	
2-Methylnaphthalene	mg/kg	2.46	2.35	7460*	22-172	4.76	29	L554647-01	WG573130	
Acenaphthene	mg/kg	0.0440	0.0428	106.	43-133	2.65	26	L554647-01	WG573130	
Acenaphthylene	mg/kg	0.0359	0.0352	109.	42-146	2.12	22	L554647-01	WG573130	
Anthracene	mg/kg	0.0428	0.0426	130.	38-153	0.364	27	L554647-01	WG573130	
Benzo(a)anthracene	mg/kg	0.0386	0.0404	117.	31-142	4.64	31	L554647-01	WG573130	
Benzo(a)pyrene	mg/kg	0.0374	0.0357	113.	26-152	4.79	32	L554647-01	WG573130	
Benzo(b)fluoranthene	mg/kg	0.0401	0.0399	122.	10-188	0.631	33	L554647-01	WG573130	
Benzo(g,h,i)perylene	mg/kg	0.0183	0.0256	55.6	10-176	33.0*	30	L554647-01	WG573130	
Benzo(k)fluoranthene	mg/kg	0.0353	0.0335	107.	22-163	5.40	29	L554647-01	WG573130	
Chrysene	mg/kg	0.0363	0.0376	110.	26-146	3.51	30	L554647-01	WG573130	
Dibenz(a,h)anthracene	mg/kg	0.0186	0.0254	56.4	10-160	30.8	39	L554647-01	WG573130	
Fluoranthene	mg/kg	0.0540	0.0516	127.	23-160	4.49	22	L554647-01	WG573130	
Fluorene	mg/kg	0.0510	0.0507	118.	44-143	0.583	23	L554647-01	WG573130	
Indeno(1,2,3-cd)pyrene	mg/kg	0.0206	0.0259	62.3	10-157	23.2	40	L554647-01	WG573130	
Naphthalene	mg/kg	2.05	1.92	3190*	22-156	6.91	27	L554647-01	WG573130	
Phenanthrene	mg/kg	0.0554	0.0573	116.	23-164	3.35	25	L554647-01	WG573130	
Pyrene	mg/kg	0.0389	0.0391	91.7	12-170	0.726	24	L554647-01	WG573130	
2-Fluorobiphenyl				100.6	34-129					WG573130
Nitrobenzene-d5				119.2	14-141					WG573130
p-Terphenyl-d14				75.01	25-139					WG573130
Mercury	mg/kg	0.262	0.263	99.2	70-130	0.381	20	L554656-06	WG573148	
Mercury	mg/kg	0.299	0.311	120.	70-130	3.93	20	L554781-04	WG573147	
TPH (GC/FID) High Fraction	ppm	35.6	41.8	59.3	50-150	16.1	20	L554710-10	WG573131	
o-Terphenyl				66.22	50-150					WG573131
Chromium,Hexavalent	mg/kg	12.9	14.1	60.9	50-150	8.89	20	L554491-01	WG573347	

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Batch number /Run number / Sample number cross reference

WG573130: R1993453: L554781-01 02 03 04 05 06 07 08
WG573173: R1993772: L554781-01 02 03 04 05 06 07 08
WG573146: R1994233: L554781-01 02 03 04 05 06 07 08
WG573344: R1994732: L554781-01 02 03 04 05 06 07 08
WG573147: R1994834: L554781-01 02 03 04
WG573148: R1994835: L554781-05 06 07 08
WG573400: R1994952: L554781-01 02 03 04 05 06 07 08
WG573179: R1995115: L554781-01 02 03 04 05 06 07 08
WG573131: R1995814: L554781-01 02 03 04 05 06
WG573347: R1996232: L554781-01 02 03 04 05 06 07 08
WG573255: R1996792: L554781-01 02 03 04 05 06 07 08
WG573470: R1996992: L554781-07 08

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

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

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

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

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



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

Report Summary

Thursday January 19, 2012

Report Number: L554829

Samples Received: 01/07/12

Client Project:

Description: K200U BACKGROUND As Study

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

Entire Report Reviewed By:

Jayred Willis , ESC Representative

Laboratory Certification Numbers

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

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

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

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REPORT OF ANALYSIS

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Parachute, CO 81635

January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG2-CS-0-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:10

ESC Sample # : L554829-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	13.	1.0	mg/kg	6010B	01/08/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG2-CS-0-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:10

ESC Sample # : L554829-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	11.	1.0	mg/kg	6010B	01/09/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

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Sample ID : K200U-BG2-CS-0-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:10

ESC Sample # : L554829-03

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	13.	1.0	mg/kg	6010B	01/08/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Sample ID : K200U-BG2-CS-0-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:10

ESC Sample # : L554829-04

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	12.	1.0	mg/kg	6010B	01/08/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Sample ID : K200U-BG2-CS-0-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:10

ESC Sample # : L554829-05

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	12.	1.0	mg/kg	6010B	01/18/12	1

BDL - Below Detection Limit

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Collection Date : 01/06/12 13:10

ESC Sample # : L554829-06

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	11.	1.0	mg/kg	6010B	01/18/12	1

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Collected By : SRM/RGW
Collection Date : 01/06/12 13:10

ESC Sample # : L554829-07

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	16.	1.0	mg/kg	6010B	01/08/12	1

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Sample ID : K200U-BG2-CS-0-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:10

ESC Sample # : L554829-08

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	19.	1.0	mg/kg	6010B	01/08/12	1

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Sample ID : K200U-BG2-CS-2.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:15

ESC Sample # : L554829-09

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	10.	1.0	mg/kg	6010B	01/08/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Sample ID : K200U-BG2-CS-2.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:15

ESC Sample # : L554829-10

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	11.	1.0	mg/kg	6010B	01/08/12	1

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Sample ID : K200U-BG2-CS-2.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:15

ESC Sample # : L554829-11

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	13.	1.0	mg/kg	6010B	01/08/12	1

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Sample ID : K200U-BG2-CS-2.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:15

ESC Sample # : L554829-12

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	9.4	1.0	mg/kg	6010B	01/09/12	1

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January 19, 2012

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Sample ID : K200U-BG2-CS-2.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:15

ESC Sample # : L554829-13

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	10.	1.0	mg/kg	6010B	01/09/12	1

BDL - Below Detection Limit

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January 19, 2012

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Sample ID : K200U-BG2-CS-2.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:15

ESC Sample # : L554829-14

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	11.	1.0	mg/kg	6010B	01/09/12	1

BDL - Below Detection Limit

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January 19, 2012

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Sample ID : K200U-BG2-CS-2.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:15

ESC Sample # : L554829-15

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	15.	1.0	mg/kg	6010B	01/09/12	1

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Sample ID : K200U-BG2-CS-2.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:15

ESC Sample # : L554829-16

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	12.	1.0	mg/kg	6010B	01/18/12	1

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Sample ID : K200U-BG3-CS-5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:20

ESC Sample # : L554829-17

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	11.	1.0	mg/kg	6010B	01/09/12	1

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Sample ID : K200U-BG3-CS-5-010612 6-10IN
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Collection Date : 01/06/12 13:20

ESC Sample # : L554829-18

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	11.	1.0	mg/kg	6010B	01/09/12	1

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Collection Date : 01/06/12 13:20

ESC Sample # : L554829-19

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	12.	1.0	mg/kg	6010B	01/09/12	1

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Collection Date : 01/06/12 13:20

ESC Sample # : L554829-20

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	14.	1.0	mg/kg	6010B	01/09/12	1

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Sample ID : K200U-BG3-CS-5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:20

ESC Sample # : L554829-21

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	12.	1.0	mg/kg	6010B	01/09/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Description : K200U BACKGROUND As Study
Sample ID : K200U-BG3-CS-5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:20

ESC Sample # : L554829-22

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	12.	1.0	mg/kg	6010B	01/09/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

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

January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG3-CS-5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:20

ESC Sample # : L554829-23

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	17.	1.0	mg/kg	6010B	01/09/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG3-CS-5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:20

ESC Sample # : L554829-24

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	15.	1.0	mg/kg	6010B	01/08/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG4-CS-7.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:30

ESC Sample # : L554829-25

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	10.	1.0	mg/kg	6010B	01/09/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG4-CS-7.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:30

ESC Sample # : L554829-26

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	11.	5.0	mg/kg	6010B	01/14/12	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG4-CS-7.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:30

ESC Sample # : L554829-27

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	12.	5.0	mg/kg	6010B	01/14/12	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG4-CS-7.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:30

ESC Sample # : L554829-28

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	12.	5.0	mg/kg	6010B	01/14/12	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG4-CS-7.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:30

ESC Sample # : L554829-29

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	11.	1.0	mg/kg	6010B	01/14/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG4-CS-7.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:30

ESC Sample # : L554829-30

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	8.9	1.0	mg/kg	6010B	01/14/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Sample ID : K200U-BG4-CS-7.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:30

ESC Sample # : L554829-31

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	10.	1.0	mg/kg	6010B	01/14/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG4-CS-7.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:30

ESC Sample # : L554829-32

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	14.	5.0	mg/kg	6010B	01/14/12	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG5-CS-10-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:35

ESC Sample # : L554829-33

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	8.5	1.0	mg/kg	6010B	01/14/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG5-CS-10-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:35

ESC Sample # : L554829-34

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	8.0	1.0	mg/kg	6010B	01/14/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG5-CS-10-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:35

ESC Sample # : L554829-35

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	14.	5.0	mg/kg	6010B	01/14/12	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG5-CS-10-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:35

ESC Sample # : L554829-36

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	7.7	1.0	mg/kg	6010B	01/18/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG5-CS-10-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:35

ESC Sample # : L554829-37

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	14.	5.0	mg/kg	6010B	01/14/12	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG5-CS-10-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:35

ESC Sample # : L554829-38

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	10.	5.0	mg/kg	6010B	01/14/12	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG5-CS-10-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:35

ESC Sample # : L554829-39

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	11.	1.0	mg/kg	6010B	01/14/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG5-CS-10-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:35

ESC Sample # : L554829-40

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	14.	1.0	mg/kg	6010B	01/14/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG6-CS-12.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:40

ESC Sample # : L554829-41

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	12.	1.0	mg/kg	6010B	01/14/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG6-CS-12.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:40

ESC Sample # : L554829-42

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	17.	5.0	mg/kg	6010B	01/14/12	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG6-CS-12.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:40

ESC Sample # : L554829-43

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	12.	1.0	mg/kg	6010B	01/14/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG6-CS-12.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:40

ESC Sample # : L554829-44

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	13.	1.0	mg/kg	6010B	01/14/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Parachute, CO 81635

January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG6-CS-12.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:40

ESC Sample # : L554829-45

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	11.	1.0	mg/kg	6010B	01/12/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

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

January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG6-CS-12.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:40

ESC Sample # : L554829-46

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	14.	1.0	mg/kg	6010B	01/12/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG6-CS-12.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:40

ESC Sample # : L554829-47

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	15.	1.0	mg/kg	6010B	01/12/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Parachute, CO 81635

January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG6-CS-12.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:40

ESC Sample # : L554829-48

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	14.	1.0	mg/kg	6010B	01/12/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Parachute, CO 81635

January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG7-CS-15-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:50

ESC Sample # : L554829-49

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	12.	1.0	mg/kg	6010B	01/12/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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2717 County Road 215, Suite 100
Parachute, CO 81635

January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG7-CS-15-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:50

ESC Sample # : L554829-50

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	12.	1.0	mg/kg	6010B	01/12/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG7-CS-15-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:50

ESC Sample # : L554829-51

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	11.	1.0	mg/kg	6010B	01/12/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG7-CS-15-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:50

ESC Sample # : L554829-52

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	12.	1.0	mg/kg	6010B	01/12/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Description : K200U BACKGROUND As Study
Sample ID : K200U-BG7-CS-15-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:50

ESC Sample # : L554829-53

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	14.	1.0	mg/kg	6010B	01/12/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Description : K200U BACKGROUND As Study
Sample ID : K200U-BG7-CS-15-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:50

ESC Sample # : L554829-54

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	10.	1.0	mg/kg	6010B	01/12/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Description : K200U BACKGROUND As Study
Sample ID : K200U-BG7-CS-15-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:50

ESC Sample # : L554829-55

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	14.	1.0	mg/kg	6010B	01/12/12	1

BDL - Below Detection Limit

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January 19, 2012

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Description : K200U BACKGROUND As Study
Sample ID : K200U-BG7-CS-15-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 13:50

ESC Sample # : L554829-56

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	12.	1.0	mg/kg	6010B	01/12/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG8-CS-17.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 14:00

ESC Sample # : L554829-57

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	11.	1.0	mg/kg	6010B	01/12/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG8-CS-17.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 14:00

ESC Sample # : L554829-58

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	11.	1.0	mg/kg	6010B	01/12/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG8-CS-17.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 14:00

ESC Sample # : L554829-59

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	11.	1.0	mg/kg	6010B	01/12/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG8-CS-17.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 14:00

ESC Sample # : L554829-60

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	10.	1.0	mg/kg	6010B	01/12/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG8-CS-17.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 14:00

ESC Sample # : L554829-61

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	14.	1.0	mg/kg	6010B	01/12/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG8-CS-17.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 14:00

ESC Sample # : L554829-62

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	12.	1.0	mg/kg	6010B	01/12/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG8-CS-17.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 14:00

ESC Sample # : L554829-63

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	13.	1.0	mg/kg	6010B	01/12/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG8-CS-17.5-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 14:00

ESC Sample # : L554829-64

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	9.5	1.0	mg/kg	6010B	01/11/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG9-CS-20-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 14:10

ESC Sample # : L554829-65

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	10.	1.0	mg/kg	6010B	01/11/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Description : K200U BACKGROUND As Study
Sample ID : K200U-BG9-CS-20-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 14:10

ESC Sample # : L554829-66

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	7.9	1.0	mg/kg	6010B	01/11/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 19, 2012

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Description : K200U BACKGROUND As Study
Sample ID : K200U-BG9-CS-20-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 14:10

ESC Sample # : L554829-67

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	9.1	1.0	mg/kg	6010B	01/11/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Description : K200U BACKGROUND As Study
Sample ID : K200U-BG9-CS-20-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 14:10

ESC Sample # : L554829-68

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	7.3	1.0	mg/kg	6010B	01/11/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Description : K200U BACKGROUND As Study
Sample ID : K200U-BG9-CS-20-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 14:10

ESC Sample # : L554829-69

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	7.6	1.0	mg/kg	6010B	01/11/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 01/15/12 11:02 Revised: 01/19/12 17:28



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Est. 1970

REPORT OF ANALYSIS

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

January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG9-CS-20-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 14:10

ESC Sample # : L554829-70

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	8.7	1.0	mg/kg	6010B	01/11/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

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

January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG9-CS-20-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 14:10

ESC Sample # : L554829-71

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	7.3	1.0	mg/kg	6010B	01/11/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

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

January 19, 2012

Date Received : January 07, 2012
Description : K200U BACKGROUND As Study
Sample ID : K200U-BG9-CS-20-010612 6-10IN
Collected By : SRM/RGW
Collection Date : 01/06/12 14:10

ESC Sample # : L554829-72

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	8.0	1.0	mg/kg	6010B	01/11/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 01/15/12 11:02 Revised: 01/19/12 17:28

TSR Signing Reports: 358
R5 - Desired TAT

Try not to report benzene as BDL above a 250x dilution. ONLY log soil samples under this account. Waters get logged under ENCRCO.

[illegible]

[illegible]



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

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Quality Assurance Report
Level II

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January 19, 2012

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Arsenic	< 1	mg/kg			WG573200	01/08/12 22:27
Arsenic	< 1	mg/kg			WG573264	01/09/12 15:20
Arsenic	< 1	mg/kg			WG573370	01/11/12 19:59
Arsenic	< 1	mg/kg			WG573267	01/12/12 17:35
Arsenic	< 1	mg/kg			WG573266	01/14/12 12:00
Arsenic	< 1	mg/kg			WG574636	01/18/12 17:18

Analyte	Units	Result	Duplicate		Limit	Ref Samp	Batch
			Duplicate	RPD			
Arsenic	mg/kg	13.0	15.0	15.1	20	L554829-24	WG573200
Arsenic	mg/kg	7.70	7.96	3.06	20	L554810-02	WG573264
Arsenic	mg/kg	50.0	76.0	41.3*	20	L554883-01	WG573370
Arsenic	mg/kg	15.0	12.0	19.5	20	L554829-62	WG573267
Arsenic	mg/kg	13.0	12.0	11.0	20	L554829-41	WG573266
Arsenic	mg/kg	11.0	12.0	12.4	20	L554829-16	WG574636

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Arsenic	mg/kg	92.6	92.8	100.	82.9-117	WG573200
Arsenic	mg/kg	92.6	90.8	98.1	82.9-117	WG573264
Arsenic	mg/kg	92.6	91.8	99.1	82.9-117	WG573370
Arsenic	mg/kg	92.6	92.4	99.8	82.9-117	WG573267
Arsenic	mg/kg	92.6	93.8	101.	82.9-117	WG573266
Arsenic	mg/kg	92.6	92.4	99.8	82.9-117	WG574636

* 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	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Arsenic	mg/kg	89.3	92.4	96.0	82.9-117	3.41	20	WG574636

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
Arsenic	mg/kg	66.5	15.0	50	103.	75-125	L554829-24	WG573200
Arsenic	mg/kg	51.6	7.96	50	87.3	75-125	L554810-02	WG573264
Arsenic	mg/kg	96.6	76.0	10	41.2*	75-125	L554883-01	WG573370
Arsenic	mg/kg	59.4	12.0	50	94.8	75-125	L554829-62	WG573267
Arsenic	mg/kg	57.6	12.0	50	91.2	75-125	L554829-41	WG573266

Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
Arsenic	mg/kg	68.1	66.5	106.	75-125	2.38	20	L554829-24	WG573200
Arsenic	mg/kg	54.5	51.6	93.1	75-125	5.47	20	L554810-02	WG573264
Arsenic	mg/kg	91.1	96.6	30.2*	75-125	5.86	20	L554883-01	WG573370
Arsenic	mg/kg	67.0	59.4	110.	75-125	12.0	20	L554829-62	WG573267
Arsenic	mg/kg	58.6	57.6	93.2	75-125	1.72	20	L554829-41	WG573266

Batch number /Run number / Sample number cross reference

WG573200: R1992992: L554829-01 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 21 22 23 24
WG573264: R1994292: L554829-02 18 19 20 25
WG573370: R1996754: L554829-64 65 66 67 68 69 70 71 72
WG573267: R1998512 R1998513: L554829-46 45 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63
WG573266: R1999752: L554829-26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44
WG574636: R2005892: L554829-05 06 08 16 36

* * 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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January 19, 2012

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

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

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

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

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

Report Summary

Tuesday January 31, 2012

Report Number: L557581

Samples Received: 01/27/12

Client Project:

Description: K200U Background Study

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

Entire Report Reviewed By:



Jayred Willis, ESC Representative

Laboratory Certification Numbers

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

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

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

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REPORT OF ANALYSIS

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

January 31, 2012

Date Received : January 27, 2012
Description : K200U Background Study
Sample ID : K200U-CS-T4-012612 6-10 IN
Collected By : RGW
Collection Date : 01/26/12 12:50

ESC Sample # : L557581-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	01/31/12	1
Chromium, Trivalent	8.3	2.0	mg/kg	Calc.	01/28/12	1
ORP	190		mV	2580	01/29/12	1
pH	9.1		su	9045D	01/30/12	1
Sodium Adsorption Ratio	6.6			Calc.	01/30/12	1
Specific Conductance	300		umhos/cm	9050AMod	01/27/12	1
Mercury	BDL	0.020	mg/kg	7471	01/28/12	1
Arsenic	BDL	5.0	mg/kg	6010B	01/28/12	5
Barium	700	0.25	mg/kg	6010B	01/28/12	1
Cadmium	BDL	1.2	mg/kg	6010B	01/28/12	5
Chromium	8.3	0.50	mg/kg	6010B	01/28/12	1
Copper	8.9	1.0	mg/kg	6010B	01/28/12	1
Lead	13.	1.2	mg/kg	6010B	01/28/12	5
Nickel	7.1	1.0	mg/kg	6010B	01/28/12	1
Selenium	5.8	5.0	mg/kg	6010B	01/28/12	5
Silver	0.83	0.50	mg/kg	6010B	01/28/12	1
Zinc	21.	1.5	mg/kg	6010B	01/28/12	1
Benzene	BDL	0.0025	mg/kg	8021/8015	01/27/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	01/27/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	01/27/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	01/27/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	01/27/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	95.5		% Rec.	8021/8015	01/27/12	5
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	01/27/12	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	01/30/12	1
Surrogate recovery(%)						
o-Terphenyl	73.2		% Rec.	3546/DRO	01/30/12	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L557581-01 (PH) - 9.1@18.8c



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January 31, 2012

Date Received : January 27, 2012
Description : K200U Background Study
Sample ID : K200U-CS-T4-012612 6-10 IN
Collected By : RGW
Collection Date : 01/26/12 12:50

ESC Sample # : L557581-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Naphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
1-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
2-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Surrogate Recovery						
Nitrobenzene-d5	59.3		% Rec.	8270C-SIM	01/29/12	1
2-Fluorobiphenyl	62.7		% Rec.	8270C-SIM	01/29/12	1
p-Terphenyl-d14	95.7		% Rec.	8270C-SIM	01/29/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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L557581-01 (PH) - 9.1@18.8c

REPORT OF ANALYSIS

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

January 31, 2012

Date Received : January 27, 2012
Description : K200U Background Study
Sample ID : K200U-CS-M4-012612 6-10 IN
Collected By : RGW
Collection Date : 01/26/12 13:05

ESC Sample # : L557581-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	01/31/12	1
Chromium, Trivalent	26.	2.0	mg/kg	Calc.	01/28/12	1
ORP	140		mV	2580	01/29/12	1
pH	9.5		su	9045D	01/30/12	1
Sodium Adsorption Ratio	23.			Calc.	01/30/12	1
Specific Conductance	850		umhos/cm	9050AMod	01/27/12	1
Mercury	BDL	0.020	mg/kg	7471	01/28/12	1
Arsenic	6.9	1.0	mg/kg	6010B	01/28/12	1
Barium	3500	0.25	mg/kg	6010B	01/28/12	1
Cadmium	0.42	0.25	mg/kg	6010B	01/28/12	1
Chromium	26.	0.50	mg/kg	6010B	01/28/12	1
Copper	22.	1.0	mg/kg	6010B	01/28/12	1
Lead	6.8	0.25	mg/kg	6010B	01/28/12	1
Nickel	16.	1.0	mg/kg	6010B	01/28/12	1
Selenium	1.4	1.0	mg/kg	6010B	01/28/12	1
Silver	BDL	0.50	mg/kg	6010B	01/28/12	1
Zinc	44.	1.5	mg/kg	6010B	01/28/12	1
Benzene	BDL	0.0025	mg/kg	8021/8015	01/27/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	01/27/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	01/27/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	01/27/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	01/27/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	96.6		% Rec.	8021/8015	01/27/12	5
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/8015	01/27/12	5
TPH (GC/FID) High Fraction	13.	4.0	mg/kg	3546/DRO	01/30/12	1
Surrogate recovery(%)						
o-Terphenyl	71.7		% Rec.	3546/DRO	01/30/12	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L557581-02 (PH) - 9.5@18.6c



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REPORT OF ANALYSIS

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

January 31, 2012

Date Received : January 27, 2012
Description : K200U Background Study
Sample ID : K200U-CS-M4-012612 6-10 IN
Collected By : RGW
Collection Date : 01/26/12 13:05

ESC Sample # : L557581-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Naphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
1-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
2-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Surrogate Recovery						
Nitrobenzene-d5	64.9		% Rec.	8270C-SIM	01/29/12	1
2-Fluorobiphenyl	67.7		% Rec.	8270C-SIM	01/29/12	1
p-Terphenyl-d14	87.7		% Rec.	8270C-SIM	01/29/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

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

January 31, 2012

Date Received : January 27, 2012
Description : K200U Background Study
Sample ID : K200U-CS-B4-012612 6-10 IN
Collected By : RGW
Collection Date : 01/26/12 13:20

ESC Sample # : L557581-03

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	01/31/12	1
Chromium, Trivalent	29.	2.0	mg/kg	Calc.	01/28/12	1
ORP	120		mV	2580	01/29/12	1
pH	9.2		su	9045D	01/30/12	1
Sodium Adsorption Ratio	9.3			Calc.	01/30/12	1
Specific Conductance	350		umhos/cm	9050AMod	01/27/12	1
Mercury	BDL	0.020	mg/kg	7471	01/28/12	1
Arsenic	9.1	1.0	mg/kg	6010B	01/28/12	1
Barium	340	0.25	mg/kg	6010B	01/28/12	1
Cadmium	0.38	0.25	mg/kg	6010B	01/28/12	1
Chromium	29.	0.50	mg/kg	6010B	01/28/12	1
Copper	22.	1.0	mg/kg	6010B	01/28/12	1
Lead	7.6	0.25	mg/kg	6010B	01/28/12	1
Nickel	19.	1.0	mg/kg	6010B	01/28/12	1
Selenium	1.4	1.0	mg/kg	6010B	01/28/12	1
Silver	BDL	0.50	mg/kg	6010B	01/28/12	1
Zinc	51.	1.5	mg/kg	6010B	01/28/12	1
Benzene	BDL	0.0025	mg/kg	8021/8015	01/27/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	01/27/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	01/27/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	01/27/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	01/27/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	96.4		% Rec.	8021/8015	01/27/12	5
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	01/27/12	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	01/30/12	1
Surrogate recovery(%)						
o-Terphenyl	80.5		% Rec.	3546/DRO	01/30/12	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L557581-03 (PH) - 9.2@18.8c



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Tax I.D. 62-0814289

Est. 1970

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Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Naphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
1-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
2-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	01/29/12	1
Surrogate Recovery						
Nitrobenzene-d5	65.0		% Rec.	8270C-SIM	01/29/12	1
2-Fluorobiphenyl	73.8		% Rec.	8270C-SIM	01/29/12	1
p-Terphenyl-d14	102.		% Rec.	8270C-SIM	01/29/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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

Reported: 01/31/12 16:16 Printed: 01/31/12 16:16
L557581-03 (PH) - 9.2@18.8c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L557581-01	WG575923	SAMP	Arsenic	R2016074	O
	WG575923	SAMP	Cadmium	R2016074	O
	WG575923	SAMP	Lead	R2016074	B
	WG576056	SAMP	Mercury	R2015716	P1
	WG576107	SAMP	ORP	R2016773	T8
L557581-02	WG575923	SAMP	Arsenic	R2016074	B
	WG575923	SAMP	Lead	R2016074	B
	WG576107	SAMP	ORP	R2016773	T8
L557581-03	WG575923	SAMP	Arsenic	R2016074	J6J3B
	WG575923	SAMP	Barium	R2016074	V
	WG575923	SAMP	Lead	R2016074	B
	WG575923	SAMP	Nickel	R2016074	J3J6
	WG575923	SAMP	Selenium	R2016074	P1
	WG575923	SAMP	Zinc	R2016074	J6
	WG576107	SAMP	ORP	R2016773	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
B	(EPA) - The indicated compound was found in the associated method blank as well as the laboratory sample.
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
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.
V	(ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries.

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
01/31/12 at 16:16:46

TSR Signing Reports: 358
R4 - Rush: Three Day

Try not to report benzene as BDL above a 250x dilution. ONLY log soil samples under this account. Waters get logged under ENCRCO.

Sample: L557581-01 Account: ENCANACO Received: 01/27/12 09:00 Due Date: 02/01/12 00:00 RPT Date: 01/31/12 16:16

Sample: L557581-02 Account: ENCANACO Received: 01/27/12 09:00 Due Date: 02/01/12 00:00 RPT Date: 01/31/12 16:16

Sample: L557581-03 Account: ENCANACO Received: 01/27/12 09:00 Due Date: 02/01/12 00:00 RPT Date: 01/31/12 16:16



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Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Mercury	< .02	mg/kg			WG576056	01/28/12 13:08
Arsenic	< 1	mg/kg			WG575923	01/28/12 11:20
Barium	< .25	mg/kg			WG575923	01/28/12 11:20
Cadmium	< .25	mg/kg			WG575923	01/28/12 11:20
Chromium	< .5	mg/kg			WG575923	01/28/12 11:20
Copper	< 1	mg/kg			WG575923	01/28/12 11:20
Lead	< .25	mg/kg			WG575923	01/28/12 11:20
Nickel	< 1	mg/kg			WG575923	01/28/12 11:20
Selenium	< 1	mg/kg			WG575923	01/28/12 11:20
Silver	< .5	mg/kg			WG575923	01/28/12 11:20
Zinc	< 1.5	mg/kg			WG575923	01/28/12 11:20
Benzene	< .0005	mg/kg			WG575965	01/27/12 17:20
Ethylbenzene	< .0005	mg/kg			WG575965	01/27/12 17:20
Toluene	< .005	mg/kg			WG575965	01/27/12 17:20
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG575965	01/27/12 17:20
Total Xylene	< .0015	mg/kg			WG575965	01/27/12 17:20
a,a,a-Trifluorotoluene(FID)		% Rec.	97.07	59-128	WG575965	01/27/12 17:20
a,a,a-Trifluorotoluene(PID)		% Rec.	103.6	54-144	WG575965	01/27/12 17:20
Specific Conductance	1.19	umhos/cm			WG575963	01/27/12 21:11
pH	5.56	su			WG576122	01/30/12 11:25
TPH (GC/FID) High Fraction	< 4	ppm			WG575850	01/30/12 10:01
o-Terphenyl		% Rec.	78.05	50-150	WG575850	01/30/12 10:01
1-Methylnaphthalene	< .006	mg/kg			WG576006	01/29/12 09:34
2-Chloronaphthalene	< .006	mg/kg			WG576006	01/29/12 09:34
2-Methylnaphthalene	< .006	mg/kg			WG576006	01/29/12 09:34
Acenaphthene	< .006	mg/kg			WG576006	01/29/12 09:34
Acenaphthylene	< .006	mg/kg			WG576006	01/29/12 09:34
Anthracene	< .006	mg/kg			WG576006	01/29/12 09:34
Benzo(a)anthracene	< .006	mg/kg			WG576006	01/29/12 09:34
Benzo(a)pyrene	< .006	mg/kg			WG576006	01/29/12 09:34
Benzo(b)fluoranthene	< .006	mg/kg			WG576006	01/29/12 09:34
Benzo(g,h,i)perylene	< .006	mg/kg			WG576006	01/29/12 09:34
Benzo(k)fluoranthene	< .006	mg/kg			WG576006	01/29/12 09:34
Chrysene	< .006	mg/kg			WG576006	01/29/12 09:34
Dibenz(a,h)anthracene	< .006	mg/kg			WG576006	01/29/12 09:34
Fluoranthene	< .006	mg/kg			WG576006	01/29/12 09:34
Fluorene	< .006	mg/kg			WG576006	01/29/12 09:34
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG576006	01/29/12 09:34
Naphthalene	< .006	mg/kg			WG576006	01/29/12 09:34
Phenanthrene	< .006	mg/kg			WG576006	01/29/12 09:34
Pyrene	< .006	mg/kg			WG576006	01/29/12 09:34
2-Fluorobiphenyl		% Rec.	72.06	34-129	WG576006	01/29/12 09:34
Nitrobenzene-d5		% Rec.	70.47	14-141	WG576006	01/29/12 09:34
p-Terphenyl-d14		% Rec.	100.5	25-139	WG576006	01/29/12 09:34
Chromium,Hexavalent	< 2	mg/kg			WG576029	01/31/12 10:30
* Performance of this Analyte is outside of established criteria.						
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Analyte	Units	Result	Duplicate		RPD	Limit	Ref Samp	Batch
			Duplicate					
Mercury	mg/kg	0.0210	0		NA	20	L557581-01	WG576056
Arsenic	mg/kg	6.80	9.10		29.7*	20	L557581-03	WG575923
Barium	mg/kg	320.	340.		7.63	20	L557581-03	WG575923
Cadmium	mg/kg	0.450	0.380		17.1	20	L557581-03	WG575923
Chromium	mg/kg	28.0	29.0		2.80	20	L557581-03	WG575923
Copper	mg/kg	18.0	22.0		17.8	20	L557581-03	WG575923
Lead	mg/kg	7.30	7.60		4.58	20	L557581-03	WG575923
Nickel	mg/kg	15.0	19.0		24.9*	20	L557581-03	WG575923
Selenium	mg/kg	1.10	1.40		24.0*	20	L557581-03	WG575923
Silver	mg/kg	0	0		0	20	L557581-03	WG575923
Zinc	mg/kg	48.0	51.0		6.90	20	L557581-03	WG575923
Specific Conductance	umhos/cm	280.	300.		6.19	20	L557581-01	WG575963
ORP	mV	180.	190.		5.41	20	L557233-01	WG576107
ORP	mV	120.	110.		7.02	20	L557794-04	WG576107
pH	su	9.10	9.10		0.110	1	L557581-01	WG576122
pH	su	8.00	8.00		0.499	1	L557872-01	WG576122
Chromium, Hexavalent	mg/kg	0	0		0	20	L557423-04	WG576029
Chromium, Hexavalent	mg/kg	0	0		0	20	L557685-02	WG576029

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Mercury	mg/kg	3.77	4.66	124.	71.6-128	WG576056
Arsenic	mg/kg	92.6	85.6	92.4	82.9-117	WG575923
Barium	mg/kg	169	160.	94.7	82.8-117	WG575923
Cadmium	mg/kg	61.8	55.8	90.3	83.3-117	WG575923
Chromium	mg/kg	71.3	69.9	98.0	81.8-118	WG575923
Copper	mg/kg	81.2	82.0	101.	83.9-116	WG575923
Lead	mg/kg	92.4	81.5	88.2	83.3-117	WG575923
Nickel	mg/kg	59.1	51.1	86.5	83.8-116	WG575923
Selenium	mg/kg	89.5	82.0	91.6	79-121	WG575923
Silver	mg/kg	34.4	32.5	94.5	66.3-134	WG575923
Zinc	mg/kg	141	128.	90.8	80.9-119	WG575923
Benzene	mg/kg	.05	0.0512	102.	76-113	WG575965
Ethylbenzene	mg/kg	.05	0.0520	104.	78-115	WG575965
Toluene	mg/kg	.05	0.0549	110.	76-114	WG575965
Total Xylene	mg/kg	.15	0.156	104.	81-118	WG575965
a,a,a-Trifluorotoluene(PID)				102.4	54-144	WG575965
TPH (GC/FID) Low Fraction	mg/kg	5.5	6.53	119.	67-135	WG575965
a,a,a-Trifluorotoluene(FID)				102.8	59-128	WG575965
Specific Conductance	umhos/cm	350	346.	98.9	85-115	WG575963

* Performance of this Analyte is outside of established criteria.
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Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
ORP	mV	229	230.	100.	95.6-104.37	WG576107
pH	su	7.98	8.06	101.*	98-101	WG576122
TPH (GC/FID) High Fraction	ppm	60	45.5	75.8	50-150	WG575850
o-Terphenyl				79.46	50-150	WG575850
1-Methylnaphthalene	mg/kg	.033	0.0219	66.4	48-113	WG576006
2-Chloronaphthalene	mg/kg	.033	0.0231	69.9	51-114	WG576006
2-Methylnaphthalene	mg/kg	.033	0.0236	71.4	44-109	WG576006
Acenaphthene	mg/kg	.033	0.0218	66.0	52-108	WG576006
Acenaphthylene	mg/kg	.033	0.0233	70.7	51-110	WG576006
Anthracene	mg/kg	.033	0.0254	77.0	58-120	WG576006
Benzo(a)anthracene	mg/kg	.033	0.0267	81.0	54-110	WG576006
Benzo(a)pyrene	mg/kg	.033	0.0257	77.8	56-118	WG576006
Benzo(b)fluoranthene	mg/kg	.033	0.0271	82.1	55-114	WG576006
Benzo(g,h,i)perylene	mg/kg	.033	0.0219	66.3	48-130	WG576006
Benzo(k)fluoranthene	mg/kg	.033	0.0247	74.8	55-122	WG576006
Chrysene	mg/kg	.033	0.0243	73.5	57-118	WG576006
Dibenz(a,h)anthracene	mg/kg	.033	0.0225	68.3	53-122	WG576006
Fluoranthene	mg/kg	.033	0.0256	77.6	58-118	WG576006
Fluorene	mg/kg	.033	0.0240	72.6	54-109	WG576006
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.0222	67.1	51-125	WG576006
Naphthalene	mg/kg	.033	0.0206	62.5	45-105	WG576006
Phenanthrene	mg/kg	.033	0.0241	72.9	53-114	WG576006
Pyrene	mg/kg	.033	0.0255	77.2	53-121	WG576006
2-Fluorobiphenyl				66.55	34-129	WG576006
Nitrobenzene-d5				65.33	14-141	WG576006
p-Terphenyl-d14				96.64	25-139	WG576006
Chromium,Hexavalent	mg/kg	203	151.	74.4	50-150	WG576029

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Benzene	mg/kg	0.0524	0.0512	105.	76-113	2.32	20	WG575965
Ethylbenzene	mg/kg	0.0532	0.0520	106.	78-115	2.29	20	WG575965
Toluene	mg/kg	0.0556	0.0549	111.	76-114	1.13	20	WG575965
Total Xylene	mg/kg	0.158	0.156	105.	81-118	1.57	20	WG575965
a,a,a-Trifluorotoluene(FID)				96.98	59-128			WG575965
a,a,a-Trifluorotoluene(PID)				102.3	54-144			WG575965
TPH (GC/FID) Low Fraction	mg/kg	6.53	6.53	119.	67-135	0.0800	20	WG575965
a,a,a-Trifluorotoluene(FID)				102.7	59-128			WG575965
Specific Conductance	umhos/	345.	346.	98.0	85-115	0.289	20	WG575963
ORP	mV	231.	230.	101.	95.6-104.37	0.434	20	WG576107
pH	su	8.06	8.06	101.	98-101	0	20	WG576122
TPH (GC/FID) High Fraction	ppm	48.0	45.5	80.0	50-150	5.32	25	WG575850

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Analyte	Laboratory Control Sample Duplicate				Limit	RPD	Limit	Batch
	Units	Result	Ref	%Rec				
o-Terphenyl				82.82	50-150			
1-Methylnaphthalene	mg/kg	0.0223	0.0219	68.0	48-113	1.78	24	WG576006
2-Chloronaphthalene	mg/kg	0.0233	0.0231	71.0	51-114	1.10	24	WG576006
2-Methylnaphthalene	mg/kg	0.0236	0.0236	72.0	44-109	0.208	24	WG576006
Acenaphthene	mg/kg	0.0223	0.0218	68.0	52-108	2.46	22	WG576006
Acenaphthylene	mg/kg	0.0239	0.0233	72.0	51-110	2.66	21	WG576006
Anthracene	mg/kg	0.0270	0.0254	82.0	58-120	6.02	20	WG576006
Benzo(a)anthracene	mg/kg	0.0296	0.0267	90.0	54-110	10.2	22	WG576006
Benzo(a)pyrene	mg/kg	0.0288	0.0257	87.0	56-118	11.4	21	WG576006
Benzo(b)fluoranthene	mg/kg	0.0297	0.0271	90.0	55-114	9.08	20	WG576006
Benzo(g,h,i)perylene	mg/kg	0.0243	0.0219	74.0	48-130	10.3	20	WG576006
Benzo(k)fluoranthene	mg/kg	0.0280	0.0247	85.0	55-122	12.6	25	WG576006
Chrysene	mg/kg	0.0273	0.0243	83.0	57-118	11.9	20	WG576006
Dibenz(a,h)anthracene	mg/kg	0.0248	0.0225	75.0	53-122	9.57	20	WG576006
Fluoranthene	mg/kg	0.0285	0.0256	86.0	58-118	10.7	20	WG576006
Fluorene	mg/kg	0.0251	0.0240	76.0	54-109	4.50	20	WG576006
Indeno(1,2,3-cd)pyrene	mg/kg	0.0247	0.0222	75.0	51-125	11.0	21	WG576006
Naphthalene	mg/kg	0.0204	0.0206	62.0	45-105	1.34	24	WG576006
Phenanthrene	mg/kg	0.0250	0.0241	76.0	53-114	3.73	20	WG576006
Pyrene	mg/kg	0.0287	0.0255	87.0	53-121	11.8	20	WG576006
2-Fluorobiphenyl				66.38	34-129			WG576006
Nitrobenzene-d5				61.04	14-141			WG576006
p-Terphenyl-d14				102.8	25-139			WG576006
Chromium,Hexavalent	mg/kg	175.	151.	86.0	50-150	14.7	20	WG576029

Analyte	Units	Matrix Spike			% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res	TV				
Mercury	mg/kg	0.291	0	.25	116.	70-130	L557581-01	WG576056
Arsenic	mg/kg	50.7	9.10	50	83.2	75-125	L557581-03	WG575923
Barium	mg/kg	357.	340.	50	34.0*	75-125	L557581-03	WG575923
Cadmium	mg/kg	43.5	0.380	50	86.2	75-125	L557581-03	WG575923
Chromium	mg/kg	74.7	29.0	50	91.4	75-125	L557581-03	WG575923
Copper	mg/kg	66.8	22.0	50	89.6	75-125	L557581-03	WG575923
Lead	mg/kg	49.8	7.60	50	84.4	75-125	L557581-03	WG575923
Nickel	mg/kg	53.7	19.0	50	69.4*	75-125	L557581-03	WG575923
Selenium	mg/kg	43.9	1.40	50	85.0	75-125	L557581-03	WG575923
Silver	mg/kg	46.5	0	50	93.0	75-125	L557581-03	WG575923
Zinc	mg/kg	90.8	51.0	50	79.6	75-125	L557581-03	WG575923
Benzene	mg/kg	0.251	0	.05	100.	32-137	L557581-03	WG575965
Ethylbenzene	mg/kg	0.255	0	.05	102.	10-150	L557581-03	WG575965
Toluene	mg/kg	0.273	0	.05	109.	20-142	L557581-03	WG575965
Total Xylene	mg/kg	0.764	0	.15	102.	16-141	L557581-03	WG575965
a,a,a-Trifluorotoluene(PID)					100.8	54-144		WG575965
TPH (GC/FID) Low Fraction	mg/kg	29.4	0	5.5	107.	55-109	L557581-03	WG575965
a,a,a-Trifluorotoluene(FID)					101.7	59-128		WG575965
1-Methylnaphthalene	mg/kg	0.0256	0	.033	77.6	25-155	L557287-13	WG576006
2-Chloronaphthalene	mg/kg	0.0264	0	.033	80.1	31-153	L557287-13	WG576006
2-Methylnaphthalene	mg/kg	0.0266	0	.033	80.6	22-172	L557287-13	WG576006
Acenaphthene	mg/kg	0.0257	0	.033	77.9	43-133	L557287-13	WG576006
Acenaphthylene	mg/kg	0.0270	0	.033	81.8	42-146	L557287-13	WG576006

* 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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Quality Assurance Report
Level II

L557581

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(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

January 31, 2012

Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Anthracene	mg/kg	0.0260	0	.033	78.9	38-153	L557287-13	WG576006
Benzo(a)anthracene	mg/kg	0.0227	0	.033	68.6	31-142	L557287-13	WG576006
Benzo(a)pyrene	mg/kg	0.0200	0	.033	60.7	26-152	L557287-13	WG576006
Benzo(b)fluoranthene	mg/kg	0.0207	0	.033	62.8	10-188	L557287-13	WG576006
Benzo(g,h,i)perylene	mg/kg	0.0146	0	.033	44.1	10-176	L557287-13	WG576006
Benzo(k)fluoranthene	mg/kg	0.0200	0	.033	60.7	22-163	L557287-13	WG576006
Chrysene	mg/kg	0.0218	0	.033	65.9	26-146	L557287-13	WG576006
Dibenz(a,h)anthracene	mg/kg	0.0170	0	.033	51.4	10-160	L557287-13	WG576006
Fluoranthene	mg/kg	0.0253	0	.033	76.6	23-160	L557287-13	WG576006
Fluorene	mg/kg	0.0264	0	.033	80.0	44-143	L557287-13	WG576006
Indeno(1,2,3-cd)pyrene	mg/kg	0.0158	0	.033	47.8	10-157	L557287-13	WG576006
Naphthalene	mg/kg	0.0246	0	.033	74.6	22-156	L557287-13	WG576006
Phenanthrene	mg/kg	0.0261	0	.033	79.0	23-164	L557287-13	WG576006
Pyrene	mg/kg	0.0248	0	.033	75.0	12-170	L557287-13	WG576006
2-Fluorobiphenyl					79.18	34-129		WG576006
Nitrobenzene-d5					74.72	14-141		WG576006
p-Terphenyl-d14					98.06	25-139		WG576006
TPH (GC/FID) High Fraction	ppm	46.6	0	60	77.7	50-150	L557492-01	WG575850
o-Terphenyl					76.90	50-150		WG575850
Chromium,Hexavalent	mg/kg	18.6	0	20	93.0	50-150	L557581-01	WG576029

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Mercury	mg/kg	0.291	0.291	116.	70-130	0	20	L557581-01	WG576056
Arsenic	mg/kg	45.8	50.7	73.4*	75-125	10.2	20	L557581-03	WG575923
Barium	mg/kg	387.	357.	94.0	75-125	8.06	20	L557581-03	WG575923
Cadmium	mg/kg	41.0	43.5	81.2	75-125	5.92	20	L557581-03	WG575923
Chromium	mg/kg	70.6	74.7	83.2	75-125	5.64	20	L557581-03	WG575923
Copper	mg/kg	63.5	66.8	83.0	75-125	5.07	20	L557581-03	WG575923
Lead	mg/kg	46.7	49.8	78.2	75-125	6.42	20	L557581-03	WG575923
Nickel	mg/kg	50.8	53.7	63.6*	75-125	5.55	20	L557581-03	WG575923
Selenium	mg/kg	40.8	43.9	78.8	75-125	7.32	20	L557581-03	WG575923
Silver	mg/kg	45.2	46.5	90.4	75-125	2.84	20	L557581-03	WG575923
Zinc	mg/kg	86.5	90.8	71.0*	75-125	4.85	20	L557581-03	WG575923
Benzene	mg/kg	0.256	0.251	102.	32-137	2.10	39	L557581-03	WG575965
Ethylbenzene	mg/kg	0.256	0.255	102.	10-150	0.450	44	L557581-03	WG575965
Toluene	mg/kg	0.271	0.273	108.	20-142	0.670	42	L557581-03	WG575965
Total Xylene	mg/kg	0.763	0.764	102.	16-141	0.160	46	L557581-03	WG575965
a,a,a-Trifluorotoluene(PID)				101.6	54-144				WG575965
TPH (GC/FID) Low Fraction	mg/kg	29.5	29.4	107.	55-109	0.620	20	L557581-03	WG575965
a,a,a-Trifluorotoluene(FID)				102.5	59-128				WG575965
1-Methylnaphthalene	mg/kg	0.0257	0.0256	78.0	25-155	0.581	27	L557287-13	WG576006
2-Chloronaphthalene	mg/kg	0.0258	0.0264	78.2	31-153	2.37	22	L557287-13	WG576006
2-Methylnaphthalene	mg/kg	0.0288	0.0266	87.1	22-172	7.77	29	L557287-13	WG576006
Acenaphthene	mg/kg	0.0242	0.0257	73.3	43-133	6.08	26	L557287-13	WG576006
Acenaphthylene	mg/kg	0.0254	0.0270	77.0	42-146	6.04	22	L557287-13	WG576006
Anthracene	mg/kg	0.0262	0.0260	79.3	38-153	0.490	27	L557287-13	WG576006
Benzo(a)anthracene	mg/kg	0.0245	0.0227	74.2	31-142	7.83	31	L557287-13	WG576006

* Performance of this Analyte is outside of established criteria.

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Tax I.D. 62-0814289

Est. 1970

January 31, 2012

Analyte	Units	MSD	Matrix Spike	Duplicate	Limit	RPD	Limit	Ref	Samp	Batch
			Ref	%Rec						
Benzo(a)pyrene	mg/kg	0.0207	0.0200	62.8	26-152	3.55	32	L557287-13		WG576006
Benzo(b)fluoranthene	mg/kg	0.0222	0.0207	67.4	10-188	7.09	33	L557287-13		WG576006
Benzo(g,h,i)perylene	mg/kg	0.0147	0.0146	44.4	10-176	0.606	30	L557287-13		WG576006
Benzo(k)fluoranthene	mg/kg	0.0216	0.0200	65.4	22-163	7.47	29	L557287-13		WG576006
Chrysene	mg/kg	0.0225	0.0218	68.2	26-146	3.35	30	L557287-13		WG576006
Dibenz(a,h)anthracene	mg/kg	0.0172	0.0170	52.0	10-160	1.04	39	L557287-13		WG576006
Fluoranthene	mg/kg	0.0261	0.0253	79.2	23-160	3.26	22	L557287-13		WG576006
Fluorene	mg/kg	0.0257	0.0264	77.8	44-143	2.70	23	L557287-13		WG576006
Indeno(1,2,3-cd)pyrene	mg/kg	0.0160	0.0158	48.4	10-157	1.22	40	L557287-13		WG576006
Naphthalene	mg/kg	0.0248	0.0246	75.3	22-156	0.982	27	L557287-13		WG576006
Phenanthrene	mg/kg	0.0250	0.0261	75.7	23-164	4.26	25	L557287-13		WG576006
Pyrene	mg/kg	0.0251	0.0248	76.2	12-170	1.57	24	L557287-13		WG576006
2-Fluorobiphenyl				70.63	34-129					WG576006
Nitrobenzene-d5				69.87	14-141					WG576006
p-Terphenyl-d14				89.48	25-139					WG576006
TPH (GC/FID) High Fraction	ppm	47.2	46.6	78.7	50-150	1.25	20	L557492-01		WG575850
o-Terphenyl				77.21	50-150					WG575850
Chromium, Hexavalent	mg/kg	17.8	18.6	89.0	50-150	4.40	20	L557581-01		WG576029

Batch number /Run number / Sample number cross reference

WG576056: R2015716: L557581-01 02 03
WG575923: R2016074: L557581-01 02 03
WG575965: R2016372: L557581-01 02 03
WG575963: R2016532: L557581-01 02 03
WG576107: R2016773: L557581-01 02 03
WG576122: R2017512: L557581-01 02 03
WG575850: R2017612: L557581-01 02 03
WG576050: R2017692: L557581-01 02 03
WG576006: R2017955: L557581-01 02 03
WG576029: R2018972: L557581-01 02 03

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

* Performance of this Analyte is outside of established criteria.

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

Report Summary

Thursday March 29, 2012

Report Number: L566319

Samples Received: 03/22/12

Client Project: K200U BACKGROUND

Description: K200U Cut Slope Sampling

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

Entire Report Reviewed By:

Jayred Willis, ESC Representative

Laboratory Certification Numbers

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

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REPORT OF ANALYSIS

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

March 29, 2012

Date Received : March 22, 2012
Description : K200U Cut Slope Sampling
Sample ID : K200U-CS-B5-032112 6-10IN
Collected By : Garrett Waltsak
Collection Date : 03/21/12 12:10

ESC Sample # : L566319-01

Site ID : K200U

Project # : K200U BACKGROUND

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	03/27/12	1
Chromium, Trivalent	34.	2.0	mg/kg	Calc.	03/25/12	1
ORP	65.		mV	2580	03/23/12	1
pH	9.3		su	9045D	03/27/12	1
Sodium Adsorption Ratio	14.			Calc.	03/27/12	1
Specific Conductance	310		umhos/cm	9050AMod	03/23/12	1
Mercury	BDL	0.020	mg/kg	7471	03/23/12	1
Arsenic	8.9	1.0	mg/kg	6010B	03/25/12	1
Barium	230	0.25	mg/kg	6010B	03/25/12	1
Cadmium	0.28	0.25	mg/kg	6010B	03/25/12	1
Chromium	34.	0.50	mg/kg	6010B	03/25/12	1
Copper	19.	1.0	mg/kg	6010B	03/25/12	1
Lead	10.	0.25	mg/kg	6010B	03/26/12	1
Nickel	20.	1.0	mg/kg	6010B	03/25/12	1
Selenium	BDL	1.0	mg/kg	6010B	03/25/12	1
Silver	BDL	0.50	mg/kg	6010B	03/25/12	1
Zinc	47.	1.5	mg/kg	6010B	03/25/12	1
Benzene	BDL	0.0025	mg/kg	8021/8015	03/23/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	03/23/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	03/23/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	03/23/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	03/23/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	96.7		% Rec.	8021/8015	03/23/12	5
a,a,a-Trifluorotoluene(PID)	99.8		% Rec.	8021/8015	03/23/12	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	03/26/12	1
Surrogate recovery(%)						
o-Terphenyl	71.0		% Rec.	3546/DRO	03/26/12	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L566319-01 (PH) - 9.3@20.0c



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REPORT OF ANALYSIS

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

March 29, 2012

Date Received : March 22, 2012
Description : K200U Cut Slope Sampling
Sample ID : K200U-CS-B5-032112 6-10IN
Collected By : Garrett Waltsak
Collection Date : 03/21/12 12:10

ESC Sample # : L566319-01
Site ID : K200U
Project # : K200U BACKGROUND

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Naphthalene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
1-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
2-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Surrogate Recovery						
Nitrobenzene-d5	105.		% Rec.	8270C-SIM	03/24/12	1
2-Fluorobiphenyl	110.		% Rec.	8270C-SIM	03/24/12	1
p-Terphenyl-d14	114.		% Rec.	8270C-SIM	03/24/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 03/29/12 09:26 Printed: 03/29/12 09:26
L566319-01 (PH) - 9.3@20.0c

REPORT OF ANALYSIS

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

March 29, 2012

Date Received : March 22, 2012
Description : K200U Cut Slope Sampling
Sample ID : K200U-CS-M5-032112 6-10IN
Collected By : Garrett Waltsak
Collection Date : 03/21/12 12:25

ESC Sample # : L566319-02

Site ID : K200U

Project # : K200U BACKGROUND

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	03/27/12	1
Chromium, Trivalent	31.	2.0	mg/kg	Calc.	03/25/12	1
ORP	74.		mV	2580	03/23/12	1
pH	9.2		su	9045D	03/27/12	1
Sodium Adsorption Ratio	12.			Calc.	03/27/12	1
Specific Conductance	380		umhos/cm	9050AMod	03/23/12	1
Mercury	BDL	0.020	mg/kg	7471	03/23/12	1
Arsenic	9.7	1.0	mg/kg	6010B	03/25/12	1
Barium	1200	0.25	mg/kg	6010B	03/25/12	1
Cadmium	0.27	0.25	mg/kg	6010B	03/25/12	1
Chromium	31.	0.50	mg/kg	6010B	03/25/12	1
Copper	22.	1.0	mg/kg	6010B	03/25/12	1
Lead	10.	0.25	mg/kg	6010B	03/26/12	1
Nickel	23.	1.0	mg/kg	6010B	03/25/12	1
Selenium	BDL	1.0	mg/kg	6010B	03/25/12	1
Silver	BDL	0.50	mg/kg	6010B	03/25/12	1
Zinc	45.	1.5	mg/kg	6010B	03/25/12	1
Benzene	BDL	0.0025	mg/kg	8021/8015	03/23/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	03/23/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	03/23/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	03/23/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	03/23/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	97.1		% Rec.	8021/8015	03/23/12	5
a,a,a-Trifluorotoluene(PID)	100.		% Rec.	8021/8015	03/23/12	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	03/26/12	1
Surrogate recovery(%)						
o-Terphenyl	73.3		% Rec.	3546/DRO	03/26/12	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L566319-02 (PH) - 9.2@19.7c



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

March 29, 2012

Date Received : March 22, 2012
Description : K200U Cut Slope Sampling
Sample ID : K200U-CS-M5-032112 6-10IN
Collected By : Garrett Waltsak
Collection Date : 03/21/12 12:25

ESC Sample # : L566319-02
Site ID : K200U
Project # : K200U BACKGROUND

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Naphthalene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
1-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
2-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Surrogate Recovery						
Nitrobenzene-d5	101.		% Rec.	8270C-SIM	03/24/12	1
2-Fluorobiphenyl	98.0		% Rec.	8270C-SIM	03/24/12	1
p-Terphenyl-d14	101.		% Rec.	8270C-SIM	03/24/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L566319-02 (PH) - 9.2@19.7c

REPORT OF ANALYSIS

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

March 29, 2012

Date Received : March 22, 2012
Description : K200U Cut Slope Sampling
Sample ID : K200U-CS-T5-032112 6-10IN
Collected By : Garrett Waltsak
Collection Date : 03/21/12 12:40

ESC Sample # : L566319-03

Site ID : K200U

Project # : K200U BACKGROUND

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	03/27/12	1
Chromium, Trivalent	7.8	2.0	mg/kg	Calc.	03/25/12	1
ORP	90.		mV	2580	03/23/12	1
pH	8.9		su	9045D	03/27/12	1
Sodium Adsorption Ratio	7.3			Calc.	03/27/12	1
Specific Conductance	290		umhos/cm	9050AMod	03/23/12	1
Mercury	BDL	0.020	mg/kg	7471	03/23/12	1
Arsenic	17.	5.0	mg/kg	6010B	03/25/12	5
Barium	310	0.25	mg/kg	6010B	03/25/12	1
Cadmium	BDL	1.2	mg/kg	6010B	03/25/12	5
Chromium	7.8	0.50	mg/kg	6010B	03/25/12	1
Copper	9.8	1.0	mg/kg	6010B	03/25/12	1
Lead	14.	1.2	mg/kg	6010B	03/26/12	5
Nickel	7.5	1.0	mg/kg	6010B	03/25/12	1
Selenium	BDL	5.0	mg/kg	6010B	03/25/12	5
Silver	BDL	0.50	mg/kg	6010B	03/25/12	1
Zinc	15.	1.5	mg/kg	6010B	03/25/12	1
Benzene	BDL	0.0025	mg/kg	8021/8015	03/23/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	03/23/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	03/23/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	03/23/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	03/23/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	96.4		% Rec.	8021/8015	03/23/12	5
a,a,a-Trifluorotoluene(PID)	100.		% Rec.	8021/8015	03/23/12	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	03/26/12	1
Surrogate recovery(%)						
o-Terphenyl	79.9		% Rec.	3546/DRO	03/26/12	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L566319-03 (PH) - 8.9@19.7c



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REPORT OF ANALYSIS

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

March 29, 2012

Date Received : March 22, 2012
Description : K200U Cut Slope Sampling
Sample ID : K200U-CS-T5-032112 6-10IN
Collected By : Garrett Waltsak
Collection Date : 03/21/12 12:40

ESC Sample # : L566319-03
Site ID : K200U
Project # : K200U BACKGROUND

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Naphthalene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
1-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
2-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	03/24/12	1
Surrogate Recovery						
Nitrobenzene-d5	95.9		% Rec.	8270C-SIM	03/24/12	1
2-Fluorobiphenyl	99.7		% Rec.	8270C-SIM	03/24/12	1
p-Terphenyl-d14	93.6		% Rec.	8270C-SIM	03/24/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 03/29/12 09:26 Printed: 03/29/12 09:26

L566319-03 (PH) - 8.9@19.7c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L566319-03	WG584384	SAMP	Cadmium	R2089533	O
	WG584384	SAMP	Selenium	R2089533	O

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

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
03/29/12 at 09:26:33

TSR Signing Reports: 358
R5 - Desired TAT

Try not to report benzene as BDL above a 250x dilution. ONLY log soil samples under this account. Waters get logged under ENCRCO.

Sample: L566319-01 Account: ENCANACO Received: 03/22/12 09:00 Due Date: 03/29/12 00:00 RPT Date: 03/29/12 09:26

Sample: L566319-02 Account: ENCANACO Received: 03/22/12 09:00 Due Date: 03/29/12 00:00 RPT Date: 03/29/12 09:26

Sample: L566319-03 Account: ENCANACO Received: 03/22/12 09:00 Due Date: 03/29/12 00:00 RPT Date: 03/29/12 09:26



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Quality Assurance Report
Level II

L566319

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Tax I.D. 62-0814289

Est. 1970

March 29, 2012

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Specific Conductance	1.51	umhos/cm			WG584415	03/23/12 20:08
Mercury	< .02	mg/kg			WG584328	03/23/12 15:02
1-Methylnaphthalene	< .006	mg/kg			WG584334	03/24/12 10:05
2-Chloronaphthalene	< .006	mg/kg			WG584334	03/24/12 10:05
2-Methylnaphthalene	< .006	mg/kg			WG584334	03/24/12 10:05
Acenaphthene	< .006	mg/kg			WG584334	03/24/12 10:05
Acenaphthylene	< .006	mg/kg			WG584334	03/24/12 10:05
Anthracene	< .006	mg/kg			WG584334	03/24/12 10:05
Benzo(a)anthracene	< .006	mg/kg			WG584334	03/24/12 10:05
Benzo(a)pyrene	< .006	mg/kg			WG584334	03/24/12 10:05
Benzo(b)fluoranthene	< .006	mg/kg			WG584334	03/24/12 10:05
Benzo(g,h,i)perylene	< .006	mg/kg			WG584334	03/24/12 10:05
Benzo(k)fluoranthene	< .006	mg/kg			WG584334	03/24/12 10:05
Chrysene	< .006	mg/kg			WG584334	03/24/12 10:05
Dibenz(a,h)anthracene	< .006	mg/kg			WG584334	03/24/12 10:05
Fluoranthene	< .006	mg/kg			WG584334	03/24/12 10:05
Fluorene	< .006	mg/kg			WG584334	03/24/12 10:05
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG584334	03/24/12 10:05
Naphthalene	< .006	mg/kg			WG584334	03/24/12 10:05
Phenanthrene	< .006	mg/kg			WG584334	03/24/12 10:05
Pyrene	< .006	mg/kg			WG584334	03/24/12 10:05
2-Fluorobiphenyl		% Rec.	73.96	34-129	WG584334	03/24/12 10:05
Nitrobenzene-d5		% Rec.	70.91	14-141	WG584334	03/24/12 10:05
p-Terphenyl-d14		% Rec.	85.06	25-139	WG584334	03/24/12 10:05
Benzene	< .0005	mg/kg			WG584300	03/22/12 22:08
Ethylbenzene	< .0005	mg/kg			WG584300	03/22/12 22:08
Toluene	< .005	mg/kg			WG584300	03/22/12 22:08
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG584300	03/22/12 22:08
Total Xylene	< .0015	mg/kg			WG584300	03/22/12 22:08
a,a,a-Trifluorotoluene(FID)		% Rec.	98.82	59-128	WG584300	03/22/12 22:08
a,a,a-Trifluorotoluene(PID)		% Rec.	102.8	54-144	WG584300	03/22/12 22:08
TPH (GC/FID) High Fraction	< 4	ppm			WG584454	03/26/12 10:57
o-Terphenyl		% Rec.	74.99	50-150	WG584454	03/26/12 10:57
Arsenic	< 1	mg/kg			WG584384	03/25/12 21:59
Barium	< .25	mg/kg			WG584384	03/25/12 21:59
Cadmium	< .25	mg/kg			WG584384	03/25/12 21:59
Chromium	< .5	mg/kg			WG584384	03/25/12 21:59
Copper	< 1	mg/kg			WG584384	03/25/12 21:59
Nickel	< 1	mg/kg			WG584384	03/25/12 21:59
Selenium	< 1	mg/kg			WG584384	03/25/12 21:59
Silver	< .5	mg/kg			WG584384	03/25/12 21:59
Zinc	< 1.5	mg/kg			WG584384	03/25/12 21:59
Lead	< .25	mg/kg			WG584384	03/26/12 16:09
pH	6.18	su			WG584579	03/27/12 10:30
Chromium,Hexavalent	< 2	mg/kg			WG584213	03/27/12 12:07

* 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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March 29, 2012

Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
ORP	mV	70.0	65.0	7.41	20	L566319-01	WG584412
Specific Conductance	umhos/cm	320.	310.	1.92	20	L566319-01	WG584415
Mercury	mg/kg	0.0880	0.0571	42.0*	20	L566343-01	WG584328
Arsenic	mg/kg	10.0	8.97	11.9	20	L566308-06	WG584384
Barium	mg/kg	41.0	36.1	13.0	20	L566308-06	WG584384
Cadmium	mg/kg	0.590	0.448	26.9*	20	L566308-06	WG584384
Chromium	mg/kg	9.40	9.29	1.50	20	L566308-06	WG584384
Copper	mg/kg	16.0	17.7	10.7	20	L566308-06	WG584384
Nickel	mg/kg	15.0	13.9	4.91	20	L566308-06	WG584384
Selenium	mg/kg	0	0	0	20	L566308-06	WG584384
Silver	mg/kg	0	0	0	20	L566308-06	WG584384
Zinc	mg/kg	48.0	46.1	4.25	20	L566308-06	WG584384
Lead	mg/kg	11.0	12.9	17.7	20	L566308-06	WG584384
pH	su	7.60	7.60	0.263	1	L566117-04	WG584579
pH	su	5.00	5.00	0.200	1	L566676-10	WG584579
Chromium, Hexavalent	mg/kg	19.0	16.0	19.2	20	L566256-01	WG584213

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
ORP	mV	228	236.	104.	95.6-104.	WG584412
Specific Conductance	umhos/cm	350	350.	100.	85-115	WG584415
Mercury	mg/kg	3.77	3.62	96.0	71.6-128	WG584328
1-Methylnaphthalene	mg/kg	.033	0.0248	75.1	48-113	WG584334
2-Chloronaphthalene	mg/kg	.033	0.0270	81.9	51-114	WG584334
2-Methylnaphthalene	mg/kg	.033	0.0251	75.9	44-109	WG584334
Acenaphthene	mg/kg	.033	0.0221	67.0	52-108	WG584334
Acenaphthylene	mg/kg	.033	0.0255	77.1	51-110	WG584334
Anthracene	mg/kg	.033	0.0281	85.2	58-120	WG584334
Benzo(a)anthracene	mg/kg	.033	0.0312	94.6	54-110	WG584334
Benzo(a)pyrene	mg/kg	.033	0.0310	93.9	56-118	WG584334
Benzo(b)fluoranthene	mg/kg	.033	0.0308	93.4	55-114	WG584334
Benzo(g,h,i)perylene	mg/kg	.033	0.0352	107.	48-130	WG584334
Benzo(k)fluoranthene	mg/kg	.033	0.0302	91.4	55-122	WG584334
Chrysene	mg/kg	.033	0.0310	93.8	57-118	WG584334
Dibenz(a,h)anthracene	mg/kg	.033	0.0339	103.	53-122	WG584334
Fluoranthene	mg/kg	.033	0.0290	87.8	58-118	WG584334
Fluorene	mg/kg	.033	0.0262	79.3	54-109	WG584334
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.0349	106.	51-125	WG584334
Naphthalene	mg/kg	.033	0.0226	68.4	45-105	WG584334
Phenanthrene	mg/kg	.033	0.0261	79.0	53-114	WG584334
Pyrene	mg/kg	.033	0.0291	88.3	53-121	WG584334
2-Fluorobiphenyl				73.95	34-129	WG584334

* 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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Est. 1970

March 29, 2012

Analyte	Units	Laboratory Control		Sample	% Rec	Limit	Batch
		Known	Val	Result			
Nitrobenzene-d5					72.02	14-141	
p-Terphenyl-d14					87.53	25-139	
Benzene	mg/kg	.05		0.0517	103.	76-113	WG584300
Ethylbenzene	mg/kg	.05		0.0522	104.	78-115	WG584300
Toluene	mg/kg	.05		0.0516	103.	76-114	WG584300
Total Xylene	mg/kg	.15		0.158	105.	81-118	WG584300
a,a,a-Trifluorotoluene(PID)					99.88	54-144	WG584300
TPH (GC/FID) Low Fraction	mg/kg	5.5		5.78	105.	67-135	WG584300
a,a,a-Trifluorotoluene(FID)					105.1	59-128	WG584300
TPH (GC/FID) High Fraction	ppm	60		52.8	88.0	50-150	WG584454
o-Terphenyl					83.16	50-150	WG584454
Arsenic	mg/kg	92.6		89.6	96.8	82.9-117	WG584384
Barium	mg/kg	169		173.	102.	82.8-117	WG584384
Cadmium	mg/kg	61.8		65.0	105.	83.3-117	WG584384
Chromium	mg/kg	71.3		75.9	106.	81.8-118	WG584384
Copper	mg/kg	81.2		86.0	106.	83.9-116	WG584384
Nickel	mg/kg	59.1		58.9	99.7	83.8-116	WG584384
Selenium	mg/kg	89.5		88.6	99.0	79-121	WG584384
Silver	mg/kg	34.4		31.9	92.7	66.3-134	WG584384
Zinc	mg/kg	141		144.	102.	80.9-119	WG584384
Lead	mg/kg	92.4		98.0	106.	83.3-117	WG584384
pH	su	6.04		5.96	98.7	98-101	WG584579
Chromium,Hexavalent	mg/kg	150		152.	101.	50-150	WG584213

Analyte	Units	Laboratory Control		Sample	%Rec	Limit	RPD	Limit	Batch
		Result	Ref	Duplicate					
ORP	mV	235.	236.		103.	95.6-104.	0.425	20	WG584412
Specific Conductance	umhos/	348.	350.		99.0	85-115	0.573	20	WG584415
1-Methylnaphthalene	mg/kg	0.0256	0.0248		78.0	48-113	3.38	24	WG584334
2-Chloronaphthalene	mg/kg	0.0279	0.0270		85.0	51-114	3.36	24	WG584334
2-Methylnaphthalene	mg/kg	0.0260	0.0251		79.0	44-109	3.68	24	WG584334
Acenaphthene	mg/kg	0.0233	0.0221		70.0	52-108	4.97	22	WG584334
Acenaphthylene	mg/kg	0.0267	0.0255		81.0	51-110	4.87	21	WG584334
Anthracene	mg/kg	0.0290	0.0281		88.0	58-120	3.03	20	WG584334
Benzo(a)anthracene	mg/kg	0.0308	0.0312		93.0	54-110	1.25	22	WG584334
Benzo(a)pyrene	mg/kg	0.0309	0.0310		94.0	56-118	0.161	21	WG584334
Benzo(b)fluoranthene	mg/kg	0.0299	0.0308		90.0	55-114	3.14	20	WG584334
Benzo(g,h,i)perylene	mg/kg	0.0355	0.0352		107.	48-130	0.742	20	WG584334
Benzo(k)fluoranthene	mg/kg	0.0303	0.0302		92.0	55-122	0.591	25	WG584334
Chrysene	mg/kg	0.0303	0.0310		92.0	57-118	2.07	20	WG584334
Dibenz(a,h)anthracene	mg/kg	0.0336	0.0339		102.	53-122	0.972	20	WG584334
Fluoranthene	mg/kg	0.0295	0.0290		89.0	58-118	1.71	20	WG584334
Fluorene	mg/kg	0.0282	0.0262		85.0	54-109	7.37	20	WG584334
Indeno(1,2,3-cd)pyrene	mg/kg	0.0352	0.0349		107.	51-125	0.777	21	WG584334
Naphthalene	mg/kg	0.0235	0.0226		71.0	45-105	4.26	24	WG584334
Phenanthrene	mg/kg	0.0272	0.0261		82.0	53-114	4.14	20	WG584334

* Performance of this Analyte is outside of established criteria.

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Quality Assurance Report
Level II

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Est. 1970

March 29, 2012

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Pyrene	mg/kg	0.0290	0.0291	88.0	53-121	0.341	20	WG584334
2-Fluorobiphenyl				77.18	34-129			WG584334
Nitrobenzene-d5				72.97	14-141			WG584334
p-Terphenyl-d14				89.61	25-139			WG584334
Benzene	mg/kg	0.0527	0.0517	105.	76-113	2.01	20	WG584300
Ethylbenzene	mg/kg	0.0531	0.0522	106.	78-115	1.60	20	WG584300
Toluene	mg/kg	0.0521	0.0516	104.	76-114	0.910	20	WG584300
Total Xylene	mg/kg	0.161	0.158	107.	81-118	1.67	20	WG584300
a,a,a-Trifluorotoluene(PID)				100.3	54-144			WG584300
TPH (GC/FID) Low Fraction	mg/kg	5.55	5.78	101.	67-135	4.06	20	WG584300
a,a,a-Trifluorotoluene(FID)				103.0	59-128			WG584300
TPH (GC/FID) High Fraction	ppm	55.4	52.8	92.0	50-150	4.77	23	WG584454
o-Terphenyl				91.46	50-150			WG584454
pH	su	5.95	5.96	98.0	98-101	0.168	20	WG584579
Chromium,Hexavalent	mg/kg	131.	152.	87.0	50-150	14.8	20	WG584213

Analyte	Units	Matrix Spike			% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res	TV				
Mercury	mg/kg	0.354	0.0571	.25	119.	70-130	L566343-01	WG584328
1-Methylnaphthalene	mg/kg	0.0317	0	.033	96.0	25-155	L566352-02	WG584334
2-Chloronaphthalene	mg/kg	0.0343	0	.033	104.	31-153	L566352-02	WG584334
2-Methylnaphthalene	mg/kg	0.0323	0	.033	97.8	22-172	L566352-02	WG584334
Acenaphthene	mg/kg	0.0286	0	.033	86.7	43-133	L566352-02	WG584334
Acenaphthylene	mg/kg	0.0326	0	.033	98.8	42-146	L566352-02	WG584334
Anthracene	mg/kg	0.0348	0	.033	105.	38-153	L566352-02	WG584334
Benzo(a)anthracene	mg/kg	0.0378	0	.033	114.	31-142	L566352-02	WG584334
Benzo(a)pyrene	mg/kg	0.0365	0	.033	110.	26-152	L566352-02	WG584334
Benzo(b)fluoranthene	mg/kg	0.0357	0	.033	108.	10-188	L566352-02	WG584334
Benzo(g,h,i)perylene	mg/kg	0.0314	0	.033	95.2	10-176	L566352-02	WG584334
Benzo(k)fluoranthene	mg/kg	0.0366	0	.033	111.	22-163	L566352-02	WG584334
Chrysene	mg/kg	0.0365	0	.033	111.	26-146	L566352-02	WG584334
Dibenz(a,h)anthracene	mg/kg	0.0323	0	.033	98.0	10-160	L566352-02	WG584334
Fluoranthene	mg/kg	0.0358	0	.033	108.	23-160	L566352-02	WG584334
Fluorene	mg/kg	0.0343	0	.033	104.	44-143	L566352-02	WG584334
Indeno(1,2,3-cd)pyrene	mg/kg	0.0335	0	.033	102.	10-157	L566352-02	WG584334
Naphthalene	mg/kg	0.0280	0	.033	84.8	22-156	L566352-02	WG584334
Phenanthrene	mg/kg	0.0327	0	.033	99.2	23-164	L566352-02	WG584334
Pyrene	mg/kg	0.0333	0	.033	101.	12-170	L566352-02	WG584334
2-Fluorobiphenyl					100.1	34-129		WG584334
Nitrobenzene-d5					90.01	14-141		WG584334
p-Terphenyl-d14					101.5	25-139		WG584334
TPH (GC/FID) High Fraction	ppm	40.7	1.29	60	65.7	50-150	L565624-09	WG584454
o-Terphenyl					79.14	50-150		WG584454
Benzene	mg/kg	0.0444	0	.05	88.8	32-137	L566246-01	WG584300

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Quality Assurance Report
Level II

L566319

March 29, 2012

Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Ethylbenzene	mg/kg	0.0454	0	.05	90.9	10-150	L566246-01	WG584300
Toluene	mg/kg	0.0469	0	.05	93.8	20-142	L566246-01	WG584300
Total Xylene	mg/kg	0.142	0	.15	94.6	16-141	L566246-01	WG584300
TPH (GC/FID) Low Fraction	mg/kg	5.39	0	5.5	98.0	55-109	L566246-01	WG584300
Arsenic	mg/kg	58.7	8.97	50	99.5	75-125	L566308-06	WG584384
Barium	mg/kg	85.3	36.1	50	98.4	75-125	L566308-06	WG584384
Cadmium	mg/kg	46.5	0.448	50	92.1	75-125	L566308-06	WG584384
Chromium	mg/kg	59.6	9.29	50	101.	75-125	L566308-06	WG584384
Copper	mg/kg	68.1	17.7	50	101.	75-125	L566308-06	WG584384
Nickel	mg/kg	57.0	13.9	50	86.2	75-125	L566308-06	WG584384
Selenium	mg/kg	45.5	0	50	91.0	75-125	L566308-06	WG584384
Silver	mg/kg	45.6	0	50	91.2	75-125	L566308-06	WG584384
Zinc	mg/kg	98.4	46.1	50	105.	75-125	L566308-06	WG584384
Lead	mg/kg	59.8	12.9	50	93.8	75-125	L566308-06	WG584384
Chromium, Hexavalent	mg/kg	5.48	0	20	27.4*	50-150	L566358-02	WG584213

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Mercury	mg/kg	0.368	0.354	124.	70-130	3.88	20	L566343-01	WG584328
1-Methylnaphthalene	mg/kg	0.0335	0.0317	102.	25-155	5.70	27	L566352-02	WG584334
2-Chloronaphthalene	mg/kg	0.0375	0.0343	114.	31-153	8.81	22	L566352-02	WG584334
2-Methylnaphthalene	mg/kg	0.0349	0.0323	106.	22-172	7.72	29	L566352-02	WG584334
Acenaphthene	mg/kg	0.0311	0.0286	94.2	43-133	8.29	26	L566352-02	WG584334
Acenaphthylene	mg/kg	0.0349	0.0326	106.	42-146	6.78	22	L566352-02	WG584334
Anthracene	mg/kg	0.0359	0.0348	109.	38-153	3.30	27	L566352-02	WG584334
Benzo(a)anthracene	mg/kg	0.0396	0.0378	120.	31-142	4.58	31	L566352-02	WG584334
Benzo(a)pyrene	mg/kg	0.0382	0.0365	116.	26-152	4.59	32	L566352-02	WG584334
Benzo(b)fluoranthene	mg/kg	0.0385	0.0357	117.	10-188	7.79	33	L566352-02	WG584334
Benzo(g,h,i)perylene	mg/kg	0.0330	0.0314	99.9	10-176	4.78	30	L566352-02	WG584334
Benzo(k)fluoranthene	mg/kg	0.0375	0.0366	114.	22-163	2.44	29	L566352-02	WG584334
Chrysene	mg/kg	0.0389	0.0365	118.	26-146	6.38	30	L566352-02	WG584334
Dibenz(a,h)anthracene	mg/kg	0.0343	0.0323	104.	10-160	5.88	39	L566352-02	WG584334
Fluoranthene	mg/kg	0.0380	0.0358	115.	23-160	5.97	22	L566352-02	WG584334
Fluorene	mg/kg	0.0367	0.0343	111.	44-143	6.65	23	L566352-02	WG584334
Indeno(1,2,3-cd)pyrene	mg/kg	0.0353	0.0335	107.	10-157	5.09	40	L566352-02	WG584334
Naphthalene	mg/kg	0.0310	0.0280	93.9	22-156	10.2	27	L566352-02	WG584334
Phenanthrene	mg/kg	0.0345	0.0327	104.	23-164	5.09	25	L566352-02	WG584334
Pyrene	mg/kg	0.0346	0.0333	105.	12-170	3.65	24	L566352-02	WG584334
2-Fluorobiphenyl				108.4	34-129				WG584334
Nitrobenzene-d5				97.70	14-141				WG584334
p-Terphenyl-d14				106.1	25-139				WG584334
TPH (GC/FID) High Fraction	ppm	36.6	40.7	58.9	50-150	10.6	40	L565624-09	WG584454
o-Terphenyl				72.84	50-150				WG584454
Benzene	mg/kg	0.0455	0.0444	91.0	32-137	2.51	39	L566246-01	WG584300
Ethylbenzene	mg/kg	0.0462	0.0454	92.4	10-150	1.65	44	L566246-01	WG584300
Toluene	mg/kg	0.0465	0.0469	93.0	20-142	0.790	42	L566246-01	WG584300
Total Xylene	mg/kg	0.143	0.142	95.2	16-141	0.590	46	L566246-01	WG584300
TPH (GC/FID) Low Fraction	mg/kg	5.64	5.39	102.	55-109	4.47	20	L566246-01	WG584300

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Est. 1970

March 29, 2012

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Arsenic	mg/kg	59.3	58.7	101.	75-125	1.02	20	L566308-06	WG584384
Barium	mg/kg	83.3	85.3	94.4	75-125	2.37	20	L566308-06	WG584384
Cadmium	mg/kg	47.0	46.5	93.1	75-125	1.07	20	L566308-06	WG584384
Chromium	mg/kg	59.6	59.6	101.	75-125	0	20	L566308-06	WG584384
Copper	mg/kg	67.0	68.1	98.6	75-125	1.63	20	L566308-06	WG584384
Nickel	mg/kg	59.9	57.0	92.0	75-125	4.96	20	L566308-06	WG584384
Selenium	mg/kg	46.7	45.5	93.4	75-125	2.60	20	L566308-06	WG584384
Silver	mg/kg	45.7	45.6	91.4	75-125	0.219	20	L566308-06	WG584384
Zinc	mg/kg	97.1	98.4	102.	75-125	1.33	20	L566308-06	WG584384
Lead	mg/kg	63.5	59.8	101.	75-125	6.00	20	L566308-06	WG584384
Chromium,Hexavalent	mg/kg	5.80	5.48	29.0*	50-150	5.67	20	L566358-02	WG584213

Batch number /Run number / Sample number cross reference

WG584412: R2088033: L566319-01 02 03
WG584415: R2088035: L566319-01 02 03
WG584328: R2088436: L566319-01 02 03
WG584334: R2088453: L566319-01 02 03
WG584300: R2088457: L566319-01 02 03
WG584454: R2088733: L566319-01 02 03
WG584384: R2089533: L566319-01 02 03
WG584579: R2090253: L566319-01 02 03
WG584213: R2090573: L566319-01 02 03
WG584700: R2090873: L566319-01 02 03

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

* Performance of this Analyte is outside of established criteria.

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March 29, 2012

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

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

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

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



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Est. 1970

January 31, 2012

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

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

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

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