

				Analytes (BDL = Below Detection Limit; ND = Non Detect)																				Inorganics in Soil			Metals in Soil (mg/kg [ppm])																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Allowable Concentration -->				Organic Compounds in Soil (mg/kg [ppm])																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Location	Sample Date:	Sample Matrix	Matrix Notes	500	TPH (total volatile and extractable petroleum hydrocarbons)	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C36) High Fraction	0.17	85	100	175	1000	1000	0.22	0.22	2.2	0.022	22	0.022	1000	1000	0.22	23	1000	EC (<4 mmhos/cm or 2x background)	SAR (calculation)	pH	Arsenic	Barium - EPA Total Barium	Cadmium	Chromium (III)	Chromium (VI)	Copper	Lead (inorganic)	Mercury	Nickel (soluble salts)	Selenium	Silver	Zinc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															



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Tax I.D. 62-0814289

Est. 1970

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

## Report Summary

Monday March 29, 2010

Report Number: L450601

Samples Received: 03/23/10

Client Project:

Description: N9W Cuttings Sample

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

Entire Report Reviewed By:

Jarred Willis , ESC Representative

### Laboratory Certification Numbers

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

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

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

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REPORT OF ANALYSIS

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

March 29, 2010

Date Received : March 23, 2010  
Description : N9W Cuttings Sample

Sample ID : N9W-CUTTINGS-032210

Collected By : Aaron Stacy  
Collection Date : 03/22/10 10:30

ESC Sample # : L450601-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	10.	mg/kg	3060A/7196A	03/25/10	5
ORP	180		mV	2580	03/29/10	1
pH	8.2		su	9045D	03/25/10	1
Sodium Adsorption Ratio	19.			Calc.	03/26/10	1
Specific Conductance	32.		umhos/cm	9050AMod	03/24/10	1
Mercury	BDL	0.020	mg/kg	7471	03/24/10	1
Arsenic	3.6	1.0	mg/kg	6010B	03/25/10	1
Barium	8400	0.25	mg/kg	6010B	03/25/10	1
Cadmium	0.30	0.25	mg/kg	6010B	03/25/10	1
Chromium	11.	0.50	mg/kg	6010B	03/25/10	1
Copper	17.	1.0	mg/kg	6010B	03/25/10	1
Lead	12.	0.25	mg/kg	6010B	03/28/10	1
Nickel	10.	1.0	mg/kg	6010B	03/25/10	1
Selenium	BDL	5.0	mg/kg	6010B	03/26/10	5
Silver	BDL	0.50	mg/kg	6010B	03/25/10	1
Zinc	43.	1.5	mg/kg	6010B	03/25/10	1
TPH (GC/FID) Low Fraction	0.58	0.50	mg/kg	8015D/GRO	03/26/10	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	99.3		% Rec.	602/8015	03/26/10	5
Benzene	BDL	0.0050	mg/kg	8260B	03/29/10	5
Toluene	BDL	0.025	mg/kg	8260B	03/29/10	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	03/29/10	5
Total Xylenes	BDL	0.015	mg/kg	8260B	03/29/10	5
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	03/29/10	5
Dibromofluoromethane	106.		% Rec.	8260B	03/29/10	5
a,a,a-Trifluorotoluene	95.7		% Rec.	8260B	03/29/10	5
4-Bromofluorobenzene	94.2		% Rec.	8260B	03/29/10	5
TPH (GC/FID) High Fraction	34.	4.0	mg/kg	3546/DRO	03/25/10	1
Surrogate recovery(%) o-Terphenyl	88.2		% Rec.	3546/DRO	03/25/10	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	03/26/10	1
Acenaphthene	0.0078	0.0060	mg/kg	8270C-SIM	03/26/10	1

BDL - Below Detection Limit  
Det. Limit - Practical Quantitation Limit(PQL)  
L450601-01 (PH) - 8.2@19.6c



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# REPORT OF ANALYSIS

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

March 29, 2010

Date Received : March 23, 2010  
Description : N9W Cuttings Sample

Sample ID : N9W-CUTTINGS-032210

Collected By : Aaron Stacy  
Collection Date : 03/22/10 10:30

ESC Sample # : L450601-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	03/26/10	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	03/26/10	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	03/26/10	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	03/26/10	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	03/26/10	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	03/26/10	1
Chrysene	0.0081	0.0060	mg/kg	8270C-SIM	03/26/10	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	03/26/10	1
Fluoranthene	0.0094	0.0060	mg/kg	8270C-SIM	03/26/10	1
Fluorene	0.018	0.0060	mg/kg	8270C-SIM	03/26/10	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	03/26/10	1
Naphthalene	0.053	0.0060	mg/kg	8270C-SIM	03/26/10	1
Phenanthrene	0.044	0.0060	mg/kg	8270C-SIM	03/26/10	1
Pyrene	0.0076	0.0060	mg/kg	8270C-SIM	03/26/10	1
1-Methylnaphthalene	0.026	0.0060	mg/kg	8270C-SIM	03/26/10	1
2-Methylnaphthalene	0.078	0.0060	mg/kg	8270C-SIM	03/26/10	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	03/26/10	1
Surrogate Recovery						
Nitrobenzene-d5	67.1		% Rec.	8270C-SIM	03/26/10	1
2-Fluorobiphenyl	68.5		% Rec.	8270C-SIM	03/26/10	1
p-Terphenyl-d14	73.7		% Rec.	8270C-SIM	03/26/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 03/29/10 17:19 Printed: 03/29/10 17:19  
L450601-01 (PH) - 8.2@19.6c

Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L450601-01	WG469245	SAMP	Selenium	R1158628	O
	WG469322	SAMP	Chromium, Hexavalent	R1157588	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  
03/29/10 at 17:19:50

TSR Signing Reports: 358

Log EVERY sample separately. ALL samples need their own report. All samples for this account should be received from Chris Hines.

Sample: L450601-01 Account: ENCANACO Received: 03/23/10 09:00 Due Date: 03/30/10 00:00 RPT Date: 03/29/10 17:19



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EnCana Oil & Gas Inc. - CO  
Chris Hines  
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Quality Assurance Report  
Level II

L450601

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Est. 1970

March 29, 2010

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Specific Conductance	1.30	umhos/cm			WG469181	03/24/10 11:02
Mercury	< .02	mg/kg			WG469156	03/24/10 21:01
pH	4.80	su			WG469173	03/25/10 13:04
Chromium, Hexavalent	< 2	mg/kg			WG469322	03/25/10 15:33
TPH (GC/FID) High Fraction	< 4	ppm			WG469219	03/25/10 14:50
o-Terphenyl		% Rec.	103.1	50-150	WG469219	03/25/10 14:50
Arsenic	< 1	mg/kg			WG469245	03/25/10 20:34
Barium	< .25	mg/kg			WG469245	03/25/10 20:34
Cadmium	< .25	mg/kg			WG469245	03/25/10 20:34
Chromium	< .5	mg/kg			WG469245	03/25/10 20:34
Copper	< 1	mg/kg			WG469245	03/25/10 20:34
Nickel	< 1	mg/kg			WG469245	03/25/10 20:34
Selenium	< 1	mg/kg			WG469245	03/25/10 20:34
Silver	< .5	mg/kg			WG469245	03/25/10 20:34
Zinc	< 1.5	mg/kg			WG469245	03/26/10 09:39
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG469605	03/25/10 21:38
a,a,a-Trifluorotoluene (FID)		% Rec.	96.56	59-128	WG469605	03/25/10 21:38
1-Methylnaphthalene	< .006	mg/kg			WG469200	03/27/10 03:31
2-Chloronaphthalene	< .006	mg/kg			WG469200	03/27/10 03:31
2-Methylnaphthalene	< .006	mg/kg			WG469200	03/27/10 03:31
Acenaphthene	< .006	mg/kg			WG469200	03/27/10 03:31
Acenaphthylene	< .006	mg/kg			WG469200	03/27/10 03:31
Anthracene	< .006	mg/kg			WG469200	03/27/10 03:31
Benzo(a)anthracene	< .006	mg/kg			WG469200	03/27/10 03:31
Benzo(a)pyrene	< .006	mg/kg			WG469200	03/27/10 03:31
Benzo(b)fluoranthene	< .006	mg/kg			WG469200	03/27/10 03:31
Benzo(g,h,i)perylene	< .006	mg/kg			WG469200	03/27/10 03:31
Benzo(k)fluoranthene	< .006	mg/kg			WG469200	03/27/10 03:31
Chrysene	< .006	mg/kg			WG469200	03/27/10 03:31
Dibenz(a,h)anthracene	< .006	mg/kg			WG469200	03/27/10 03:31
Fluoranthene	< .006	mg/kg			WG469200	03/27/10 03:31
Fluorene	< .006	mg/kg			WG469200	03/27/10 03:31
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG469200	03/27/10 03:31
Naphthalene	< .006	mg/kg			WG469200	03/27/10 03:31
Phenanthrene	< .006	mg/kg			WG469200	03/27/10 03:31
Pyrene	< .006	mg/kg			WG469200	03/27/10 03:31
2-Fluorobiphenyl		% Rec.	94.02	21-120	WG469200	03/27/10 03:31
Nitrobenzene-d5		% Rec.	88.68	33-114	WG469200	03/27/10 03:31
p-Terphenyl-d14		% Rec.	112.5	18-142	WG469200	03/27/10 03:31
Lead	< .25	mg/kg			WG469778	03/28/10 11:36
Benzene	< .001	mg/kg			WG469955	03/28/10 22:47
* Performance of this Analyte is outside of established criteria. For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'						





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EnCana Oil & Gas Inc. - CO  
Chris Hines  
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Level II

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March 29, 2010

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Ethylbenzene	< .001	mg/kg			WG469955	03/28/10 22:47
Toluene	< .005	mg/kg			WG469955	03/28/10 22:47
Total Xylenes	< .003	mg/kg			WG469955	03/28/10 22:47
4-Bromofluorobenzene		% Rec.	96.77	59-140	WG469955	03/28/10 22:47
Dibromofluoromethane		% Rec.	107.5	63-139	WG469955	03/28/10 22:47
Toluene-d8		% Rec.	103.1	84-116	WG469955	03/28/10 22:47
a,a,a-Trifluorotoluene		% Rec.	96.68	80-118	WG469955	03/28/10 22:47

Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
Specific Conductance	umhos/cm	2300	2300	0.952	20	L450383-01	WG469181
Mercury	mg/kg	0.0300	0.0280	6.23	20	L450606-02	WG469156
pH	su	7.90	7.80	1.27*	1	L450226-01	WG469173
pH	su	8.30	8.20	1.21*	1	L450601-01	WG469173
Chromium,Hexavalent	mg/kg	31.0	29.0	6.34	20	L449916-02	WG469322
Arsenic	mg/kg	0	0	0	20	L450593-02	WG469245
Barium	mg/kg	26.0	26.4	0.380	20	L450593-02	WG469245
Cadmium	mg/kg	0	0	0	20	L450593-02	WG469245
Chromium	mg/kg	13.0	13.0	0.766	20	L450593-02	WG469245
Copper	mg/kg	4.50	4.40	2.25	20	L450593-02	WG469245
Nickel	mg/kg	6.80	6.50	3.77	20	L450593-02	WG469245
Selenium	mg/kg	0	0	0	20	L450593-02	WG469245
Silver	mg/kg	0	0	0	20	L450593-02	WG469245
Zinc	mg/kg	8.90	8.50	4.26	20	L450593-02	WG469245
Lead	mg/kg	12.0	7.50	48.5*	20	L450590-01	WG469778
ORP	mV	42.0	44.0	4.65	20	L451294-01	WG470018

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Specific Conductance	umhos/cm	406	410.	101.	85-115	WG469181
Mercury	mg/kg	8.77	10.0	114.	71.6-127.7	WG469156
pH	su	6.46	6.50	101.	97.9-100.8	WG469173
Chromium,Hexavalent	mg/kg	100	102.	102.	50-143	WG469322
TPH (GC/FID) High Fraction	ppm	60	50.1	83.4	50-150	WG469219
o-Terphenyl				90.86	50-150	WG469219

\* 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		% Rec	Limit	Batch
		Known Val	Result			
Arsenic	mg/kg	192	186.	96.9	78.6-120.8	WG469245
Barium	mg/kg	420	428.	102.	78.8-121.4	WG469245
Cadmium	mg/kg	70.1	65.7	93.7	78.5-121.5	WG469245
Chromium	mg/kg	168	167.	99.4	80.4-120.2	WG469245
Copper	mg/kg	122	132.	108.	81.6-119.7	WG469245
Nickel	mg/kg	74.1	81.2	110.	78.8-121.2	WG469245
Selenium	mg/kg	176	166.	94.3	75.6-125.0	WG469245
Silver	mg/kg	115	115.	100.	66-133.9	WG469245
Zinc	mg/kg	437	427.	97.7	78.5-121.7	WG469245
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.10	92.8	67-135	WG469605
a,a,a-Trifluorotoluene(FID)				107.1	59-128	WG469605
1-Methylnaphthalene	mg/kg	.033	0.0311	94.1	41-110	WG469200
2-Chloronaphthalene	mg/kg	.033	0.0318	96.2	43-109	WG469200
2-Methylnaphthalene	mg/kg	.033	0.0308	93.2	38-104	WG469200
Acenaphthene	mg/kg	.033	0.0306	92.8	48-103	WG469200
Acenaphthylene	mg/kg	.033	0.0322	97.6	43-106	WG469200
Anthracene	mg/kg	.033	0.0318	96.3	51-110	WG469200
Benzo(a)anthracene	mg/kg	.033	0.0351	106.	38-126	WG469200
Benzo(a)pyrene	mg/kg	.033	0.0359	109.	47-118	WG469200
Benzo(b)fluoranthene	mg/kg	.033	0.0332	101.	47-118	WG469200
Benzo(g,h,i)perylene	mg/kg	.033	0.0355	108.	40-125	WG469200
Benzo(k)fluoranthene	mg/kg	.033	0.0382	116.	45-121	WG469200
Chrysene	mg/kg	.033	0.0354	107.	35-135	WG469200
Dibenz(a,h)anthracene	mg/kg	.033	0.0351	106.	41-124	WG469200
Fluoranthene	mg/kg	.033	0.0329	99.7	50-114	WG469200
Fluorene	mg/kg	.033	0.0326	98.7	49-109	WG469200
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.0347	105.	40-126	WG469200
Naphthalene	mg/kg	.033	0.0293	88.7	36-100	WG469200
Phenanthrene	mg/kg	.033	0.0316	95.7	46-108	WG469200
Pyrene	mg/kg	.033	0.0365	110.	30-136	WG469200
2-Fluorobiphenyl				94.18	21-120	WG469200
Nitrobenzene-d5				90.97	33-114	WG469200
p-Terphenyl-d14				119.3	18-142	WG469200
Lead	mg/kg	113	110.	97.3	77.3-122.1	WG469778
ORP	mV	229	220.	96.1	95.6-104.37	WG470018
Benzene	mg/kg	.025	0.0270	108.	65-128	WG469955
Ethylbenzene	mg/kg	.025	0.0254	102.	74-128	WG469955
Toluene	mg/kg	.025	0.0254	101.	70-120	WG469955
Total Xylenes	mg/kg	.075	0.0758	101.	74-127	WG469955
4-Bromofluorobenzene				97.97	59-140	WG469955
Dibromofluoromethane				104.4	63-139	WG469955
Toluene-d8				99.73	84-116	WG469955
a,a,a-Trifluorotoluene				95.07	80-118	WG469955

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Specific Conductance	umhos/	410.	410.	101.	85-115	0	20	WG469181
* Performance of this Analyte is outside of established criteria.								
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'								



**YOUR LAB OF CHOICE**

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

Quality Assurance Report  
Level II

L450601

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

March 29, 2010

Analyte	Units	Laboratory Control		Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref	%Rec					
pH	su	6.40	6.50	99.0		97.9-100.8	1.55	20	WG469173
Chromium,Hexavalent	mg/kg	101.	102.	101.		50-143	0.985	20	WG469322
TPH (GC/FID) High Fraction o-Terphenyl	ppm	52.9	50.1	88.0 98.79		50-150 50-150	5.44	25	WG469219 WG469219
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	mg/kg	5.09	5.10	92.0 103.7		67-135 59-128	0.324	20	WG469605 WG469605
1-Methylnaphthalene	mg/kg	0.0289	0.0311	88.0		41-110	7.03	24	WG469200
2-Chloronaphthalene	mg/kg	0.0295	0.0318	89.0		43-109	7.27	21	WG469200
2-Methylnaphthalene	mg/kg	0.0278	0.0308	84.0		38-104	10.2	24	WG469200
Acenaphthene	mg/kg	0.0307	0.0306	93.0		48-103	0.308	20	WG469200
Acenaphthylene	mg/kg	0.0328	0.0322	99.0		43-106	1.76	20	WG469200
Anthracene	mg/kg	0.0325	0.0318	98.0		51-110	2.29	22	WG469200
Benzo(a)anthracene	mg/kg	0.0341	0.0351	103.		38-126	2.81	20	WG469200
Benzo(a)pyrene	mg/kg	0.0352	0.0359	107.		47-118	1.86	20	WG469200
Benzo(b)fluoranthene	mg/kg	0.0336	0.0332	102.		47-118	1.17	29	WG469200
Benzo(g,h,i)perylene	mg/kg	0.0354	0.0355	107.		40-125	0.329	20	WG469200
Benzo(k)fluoranthene	mg/kg	0.0369	0.0382	112.		45-121	3.55	31	WG469200
Chrysene	mg/kg	0.0341	0.0354	103.		35-135	3.75	20	WG469200
Dibenz(a,h)anthracene	mg/kg	0.0348	0.0351	106.		41-124	0.685	20	WG469200
Fluoranthene	mg/kg	0.0335	0.0329	102.		50-114	1.89	20	WG469200
Fluorene	mg/kg	0.0324	0.0326	98.0		49-109	0.439	19	WG469200
Indeno(1,2,3-cd)pyrene	mg/kg	0.0341	0.0347	103.		40-126	1.59	20	WG469200
Naphthalene	mg/kg	0.0267	0.0293	81.0		36-100	9.10	24	WG469200
Phenanthrene	mg/kg	0.0326	0.0316	99.0		46-108	3.14	21	WG469200
Pyrene	mg/kg	0.0349	0.0365	106.		30-136	4.42	20	WG469200
2-Fluorobiphenyl				94.02		21-120			WG469200
Nitrobenzene-d5				84.76		33-114			WG469200
p-Terphenyl-d14				112.8		18-142			WG469200
ORP	mV	220.	220.	96.0		95.6-104.37	0	20	WG470018
Benzene	mg/kg	0.0260	0.0270	104.		65-128	3.86	20	WG469955
Ethylbenzene	mg/kg	0.0238	0.0254	95.0		74-128	6.54	20	WG469955
Toluene	mg/kg	0.0244	0.0254	98.0		70-120	3.84	20	WG469955
Total Xylenes	mg/kg	0.0711	0.0758	95.0		74-127	6.38	20	WG469955
4-Bromofluorobenzene				96.20		59-140			WG469955
Dibromofluoromethane				104.9		63-139			WG469955
Toluene-d8				101.0		84-116			WG469955
a,a,a-Trifluorotoluene				95.18		80-118			WG469955

Analyte	Units	Matrix Spike		TV	% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res					
Mercury	mg/kg	0.268	0.0280	.25	96.0	70-130	L450606-02	WG469156
Chromium,Hexavalent	mg/kg	13.2	0	20	66.0	50-150	L450383-01	WG469322

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Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Arsenic	mg/kg	49.6	0	50	99.2	75-125	L450593-02	WG469245
Barium	mg/kg	81.1	26.4	50	109.	75-125	L450593-02	WG469245
Cadmium	mg/kg	51.0	0	50	102.	75-125	L450593-02	WG469245
Chromium	mg/kg	65.7	13.0	50	105.	75-125	L450593-02	WG469245
Copper	mg/kg	60.4	4.40	50	112.	75-125	L450593-02	WG469245
Nickel	mg/kg	60.4	6.50	50	108.	75-125	L450593-02	WG469245
Selenium	mg/kg	46.2	0	50	92.4	75-125	L450593-02	WG469245
Silver	mg/kg	53.0	0	50	106.	75-125	L450593-02	WG469245
Zinc	mg/kg	60.4	8.50	50	104.	75-125	L450593-02	WG469245
TPH (GC/FID) Low Fraction	mg/kg	17.0	0	5.5	61.7	55-109	L450587-01	WG469605
a,a,a-Trifluorotoluene(FID)					102.0	59-128		WG469605
Lead	mg/kg	53.5	7.50	50	92.0	75-125	L450590-01	WG469778
Benzene	mg/kg	0.0872	0	.025	69.8	16-143	L450587-01	WG469955
Ethylbenzene	mg/kg	0.0907	0	.025	72.6	12-137	L450587-01	WG469955
Toluene	mg/kg	0.0891	0	.025	71.3	12-136	L450587-01	WG469955
Total Xylenes	mg/kg	0.274	0	.075	73.2	10-138	L450587-01	WG469955
4-Bromofluorobenzene					94.59	59-140		WG469955
Dibromofluoromethane					106.2	63-139		WG469955
Toluene-d8					100.7	84-116		WG469955
a,a,a-Trifluorotoluene					95.06	80-118		WG469955
1-Methylnaphthalene	mg/kg	0.103	0.120	.033	0*	19-131	L450559-01	WG469200
2-Chloronaphthalene	mg/kg	0.0347	0	.033	105.	38-117	L450559-01	WG469200
2-Methylnaphthalene	mg/kg	0.144	0.210	.033	0*	18-125	L450559-01	WG469200
Acenaphthene	mg/kg	0.0602	0.0460	.033	43.0	31-120	L450559-01	WG469200
Acenaphthylene	mg/kg	0.0276	0	.033	83.8	34-116	L450559-01	WG469200
Anthracene	mg/kg	0.0420	0.0480	.033	0*	32-131	L450559-01	WG469200
Benzo(a)anthracene	mg/kg	0.0359	0	.033	109.	32-131	L450559-01	WG469200
Benzo(a)pyrene	mg/kg	0.0368	0	.033	112.	28-130	L450559-01	WG469200
Benzo(b)fluoranthene	mg/kg	0.0397	0	.033	120.	37-130	L450559-01	WG469200
Benzo(g,h,i)perylene	mg/kg	0.0165	0	.033	49.9	10-134	L450559-01	WG469200
Benzo(k)fluoranthene	mg/kg	0.0389	0	.033	118.	31-129	L450559-01	WG469200
Chrysene	mg/kg	0.0353	0	.033	107.	25-137	L450559-01	WG469200
Dibenz(a,h)anthracene	mg/kg	0.0210	0	.033	63.6	20-134	L450559-01	WG469200
Fluoranthene	mg/kg	0.0426	0.0310	.033	35.1	27-138	L450559-01	WG469200
Fluorene	mg/kg	0.0581	0.0390	.033	57.9	26-136	L450559-01	WG469200
Indeno(1,2,3-cd)pyrene	mg/kg	0.0198	0	.033	60.1	16-135	L450559-01	WG469200
Naphthalene	mg/kg	0.0573	0.0520	.033	16.2*	22-121	L450559-01	WG469200
Phenanthrene	mg/kg	0.0454	0.0200	.033	76.9	27-133	L450559-01	WG469200
Pyrene	mg/kg	0.0463	0.0220	.033	73.7	22-133	L450559-01	WG469200
2-Fluorobiphenyl					96.14	21-120		WG469200
Nitrobenzene-d5					122.6*	33-114		WG469200
p-Terphenyl-d14					116.2	18-142		WG469200

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Mercury	mg/kg	0.273	0.268	98.0	70-130	1.85	20	L450606-02	WG469156
Chromium,Hexavalent	mg/kg	14.0	13.2	70.0	50-150	5.88	20	L450383-01	WG469322
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Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Arsenic	mg/kg	50.0	49.6	100.	75-125	0.803	20	L450593-02	WG469245
Barium	mg/kg	82.0	81.1	111.	75-125	1.10	20	L450593-02	WG469245
Cadmium	mg/kg	51.6	51.0	103.	75-125	1.17	20	L450593-02	WG469245
Chromium	mg/kg	66.8	65.7	108.	75-125	1.66	20	L450593-02	WG469245
Copper	mg/kg	61.6	60.4	114.	75-125	1.97	20	L450593-02	WG469245
Nickel	mg/kg	60.9	60.4	109.	75-125	0.824	20	L450593-02	WG469245
Selenium	mg/kg	46.7	46.2	93.4	75-125	1.08	20	L450593-02	WG469245
Silver	mg/kg	54.0	53.0	108.	75-125	1.87	20	L450593-02	WG469245
Zinc	mg/kg	61.5	60.4	106.	75-125	1.80	20	L450593-02	WG469245
TPH (GC/FID) Low Fraction	mg/kg	17.1	17.0	62.0	55-109	0.488	20	L450587-01	WG469605
a,a,a-Trifluorotoluene(FID)				102.0	59-128				WG469605
Lead	mg/kg	54.1	53.5	93.2	75-125	1.12	20	L450590-01	WG469778
Benzene	mg/kg	0.101	0.0872	80.8	16-143	14.6	31	L450587-01	WG469955
Ethylbenzene	mg/kg	0.101	0.0907	80.8	12-137	10.7	36	L450587-01	WG469955
Toluene	mg/kg	0.0994	0.0891	79.5	12-136	10.9	32	L450587-01	WG469955
Total Xylenes	mg/kg	0.306	0.274	81.7	10-138	11.0	36	L450587-01	WG469955
4-Bromofluorobenzene				94.02	59-140				WG469955
Dibromofluoromethane				108.9	63-139				WG469955
Toluene-d8				99.30	84-116				WG469955
a,a,a-Trifluorotoluene				92.70	80-118				WG469955
1-Methylnaphthalene	mg/kg	0.0884	0.103	0*	19-131	14.8	30	L450559-01	WG469200
2-Chloronaphthalene	mg/kg	0.0321	0.0347	97.3	38-117	7.73	26	L450559-01	WG469200
2-Methylnaphthalene	mg/kg	0.127	0.144	0*	18-125	11.9	29	L450559-01	WG469200
Acenaphthene	mg/kg	0.0539	0.0602	24.1*	31-120	11.0	30	L450559-01	WG469200
Acenaphthylene	mg/kg	0.0295	0.0276	89.4	34-116	6.51	29	L450559-01	WG469200
Anthracene	mg/kg	0.0426	0.0420	0*	32-131	1.47	26	L450559-01	WG469200
Benzo(a)anthracene	mg/kg	0.0337	0.0359	102.	32-131	6.42	31	L450559-01	WG469200
Benzo(a)pyrene	mg/kg	0.0344	0.0368	104.	28-130	6.64	28	L450559-01	WG469200
Benzo(b)fluoranthene	mg/kg	0.0391	0.0397	118.	37-130	1.44	41	L450559-01	WG469200
Benzo(g,h,i)perylene	mg/kg	0.0150	0.0165	45.5	10-134	9.24	26	L450559-01	WG469200
Benzo(k)fluoranthene	mg/kg	0.0361	0.0389	109.	31-129	7.67	42	L450559-01	WG469200
Chrysene	mg/kg	0.0313	0.0353	94.8	25-137	12.1	22	L450559-01	WG469200
Dibenz(a,h)anthracene	mg/kg	0.0191	0.0210	57.9	20-134	9.35	25	L450559-01	WG469200
Fluoranthene	mg/kg	0.0400	0.0426	27.4	27-138	6.12	35	L450559-01	WG469200
Fluorene	mg/kg	0.0538	0.0581	44.7	26-136	7.80	30	L450559-01	WG469200
Indeno(1,2,3-cd)pyrene	mg/kg	0.0182	0.0198	55.2	16-135	8.49	26	L450559-01	WG469200
Naphthalene	mg/kg	0.0526	0.0573	1.83*	22-121	8.60	30	L450559-01	WG469200
Phenanthrene	mg/kg	0.0414	0.0454	64.8	27-133	9.24	36	L450559-01	WG469200
Pyrene	mg/kg	0.0421	0.0463	61.0	22-133	9.48	33	L450559-01	WG469200
2-Fluorobiphenyl				92.79	21-120				WG469200
Nitrobenzene-d5				114.2*	33-114				WG469200
p-Terphenyl-d14				108.2	18-142				WG469200

Batch number /Run number / Sample number cross reference

WG469181: R1155828: L450601-01  
WG469156: R1156468: L450601-01  
WG469173: R1157414: L450601-01  
WG469322: R1157588: L450601-01  
WG469219: R1158268: L450601-01

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WG469245: R1158628: L450601-01  
WG469186: R1158970: L450601-01  
WG469200: R1159388: L450601-01  
WG469605: R1159589: L450601-01  
WG469778: R1160289: L450601-01  
WG470018: R1160439: L450601-01  
WG469955: R1161169: L450601-01

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

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

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

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