



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

Brett Middleton
Encana
2717 Co. Rd. 215
Parachute, CO 81635

Report Summary

Monday March 22, 2010

Report Number: L448989

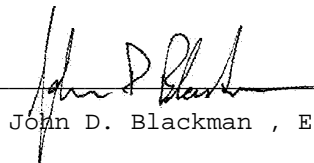
Samples Received: 03/12/10

Client Project:

Description: Moon Quarterly

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:


John D. Blackman , 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

Brett Middleton
Encana
2717 Co. Rd. 215
Parachute, CO 81635

March 22, 2010

Date Received : March 12, 2010
Description : Moon Quarterly

Sample ID : MOONTANK-031110

Collected By : Aaron Stacy
Collection Date : 03/11/10 11:10

ESC Sample # : L448989-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Bromide	2.2	1.0	mg/l	9056	03/12/10	1
Chloride	220	5.0	mg/l	9056	03/17/10	5
Fluoride	5.9	0.10	mg/l	9056	03/12/10	1
Nitrate	BDL	0.10	mg/l	9056	03/12/10	1
Nitrite	BDL	0.10	mg/l	9056	03/12/10	1
Sulfate	200	5.0	mg/l	9056	03/12/10	1
Alkalinity	180	20.	mg/l	2320B	03/16/10	1
Alkalinity,Bicarbonate	190	20.	mg/l	2320B	03/18/10	1
Alkalinity,Carbonate	BDL	20.	mg/l	2320B	03/18/10	1
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	03/18/10	1
pH	8.6		su	9040C	03/13/10	1
Sulfide	BDL	0.050	mg/l	4500-S2 D	03/19/10	1
Specific Conductance	1500		umhos/cm	9050A	03/15/10	1
Dissolved Solids	880	10.	mg/l	2540C	03/18/10	1
Arsenic,Dissolved	BDL	0.020	mg/l	6010B	03/18/10	1
Barium,Dissolved	0.081	0.0050	mg/l	6010B	03/18/10	1
Cadmium,Dissolved	BDL	0.0050	mg/l	6010B	03/18/10	1
Calcium,Dissolved	9.8	0.50	mg/l	6010B	03/18/10	1
Chromium,Dissolved	BDL	0.010	mg/l	6010B	03/18/10	1
Copper,Dissolved	BDL	0.020	mg/l	6010B	03/18/10	1
Iron,Dissolved	BDL	0.10	mg/l	6010B	03/18/10	1
Lead,Dissolved	BDL	0.0050	mg/l	6010B	03/18/10	1
Magnesium,Dissolved	0.28	0.10	mg/l	6010B	03/18/10	1
Manganese,Dissolved	0.014	0.010	mg/l	6010B	03/18/10	1
Potassium,Dissolved	0.74	0.50	mg/l	6010B	03/18/10	1
Selenium,Dissolved	BDL	0.020	mg/l	6010B	03/18/10	1
Silver,Dissolved	BDL	0.010	mg/l	6010B	03/18/10	1
Sodium,Dissolved	300	0.50	mg/l	6010B	03/18/10	1
Benzene	BDL	0.0010	mg/l	8260B	03/14/10	1
Toluene	BDL	0.0050	mg/l	8260B	03/14/10	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	03/14/10	1
Total Xylenes	BDL	0.0030	mg/l	8260B	03/14/10	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	03/14/10	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	03/14/10	1
Dibromofluoromethane	101.		% Rec.	8260B	03/14/10	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L448989-01 (PH) - 8.6@16.6c



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March 22, 2010

Date Received : March 12, 2010
Description : Moon Quarterly
Sample ID : MOONTANK-031110
Collected By : Aaron Stacy
Collection Date : 03/11/10 11:10

ESC Sample # : L448989-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
4-Bromofluorobenzene	96.1		% Rec.	8260B	03/14/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 03/22/10 09:40 Printed: 03/22/10 12:59
L448989-01 (PH) - 8.6@16.6c



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March 22, 2010

Date Received : March 12, 2010
Description : Moon Quarterly
Sample ID : MOONTANK-031110
Collected By : Aaron Stacy
Collection Date : 03/11/10 11:10

ESC Sample # : L448989-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methane	2.5	0.040	mg/l	RSK175	03/12/10	4
Ethane	0.20	0.013	mg/l	RSK175	03/12/10	1
Ethene	BDL	0.013	mg/l	RSK175	03/12/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 03/22/10 09:40 Printed: 03/22/10 12:59



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March 22, 2010

Date Received : March 12, 2010
Description : Moon Quarterly
Sample ID : MOONTANK-031110 D
Collected By : Aaron Stacy
Collection Date : 03/11/10 11:10

ESC Sample # : L448989-03

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methane	2.2	0.040	mg/l	RSK175	03/12/10	4
Ethane	0.20	0.013	mg/l	RSK175	03/12/10	1
Ethene	BDL	0.013	mg/l	RSK175	03/12/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 03/22/10 09:40 Printed: 03/22/10 12:59

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L448989-01	WG467515	SAMP	pH	R1144823	T8
	WG468449	SAMP	Sulfide	R1151448	Q

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
Q	(ESC) Sample held beyond the accepted holding time.
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
03/22/10 at 12:59:50

TSR Signing Reports: 151
R5 - Desired TAT

Sample: L448989-01 Account: ENCRCO Received: 03/12/10 09:00 Due Date: 03/19/10 00:00 RPT Date: 03/22/10 09:40

Sample: L448989-02 Account: ENCRCO Received: 03/12/10 09:00 Due Date: 03/12/10 00:00 RPT Date: 03/22/10 09:40

Sample: L448989-03 Account: ENCRCO Received: 03/12/10 09:00 Due Date: 03/12/10 00:00 RPT Date: 03/22/10 09:40



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Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Ethane	< .013	mg/l			WG467434	03/12/10 14:31
Ethene	< .013	mg/l			WG467434	03/12/10 14:31
Methane	< .01	mg/l			WG467434	03/12/10 14:31
Bromide	< 1	mg/l			WG467488	03/12/10 15:09
Fluoride	< .1	mg/l			WG467488	03/12/10 15:09
Nitrate	< .1	mg/l			WG467488	03/12/10 15:09
Nitrite	< .1	mg/l			WG467488	03/12/10 15:09
Sulfate	< 5	mg/l			WG467488	03/12/10 15:09
pH	5.00	su			WG467515	03/13/10 10:04
Benzene	< .001	mg/l			WG467643	03/14/10 12:35
Ethylbenzene	< .001	mg/l			WG467643	03/14/10 12:35
Methyl tert-butyl ether	< .001	mg/l			WG467643	03/14/10 12:35
Toluene	< .005	mg/l			WG467643	03/14/10 12:35
Total Xylenes	< .003	mg/l			WG467643	03/14/10 12:35
4-Bromofluorobenzene		% Rec.	95.44	75-128	WG467643	03/14/10 12:35
Dibromofluoromethane		% Rec.	104.3	79-125	WG467643	03/14/10 12:35
Toluene-d8		% Rec.	103.4	87-114	WG467643	03/14/10 12:35
Specific Conductance	1.20	umhos/cm			WG467748	03/15/10 17:28
Chloride	< 1	mg/l			WG468112	03/17/10 08:24
Alkalinity	< 20	mg/l			WG467905	03/16/10 15:26
Dissolved Solids	< 10	mg/l			WG467798	03/18/10 13:13
Ammonia Nitrogen	< .1	mg/l			WG468007	03/18/10 11:15
Arsenic, Dissolved	< .02	mg/l			WG468036	03/18/10 11:20
Barium, Dissolved	< .005	mg/l			WG468036	03/18/10 11:20
Cadmium, Dissolved	< .005	mg/l			WG468036	03/18/10 11:20
Calcium, Dissolved	< .5	mg/l			WG468036	03/18/10 11:20
Chromium, Dissolved	< .01	mg/l			WG468036	03/18/10 11:20
Copper, Dissolved	< .02	mg/l			WG468036	03/18/10 11:20
Iron, Dissolved	< .1	mg/l			WG468036	03/18/10 11:20
Lead, Dissolved	< .005	mg/l			WG468036	03/18/10 11:20
Magnesium, Dissolved	< .1	mg/l			WG468036	03/18/10 11:20
Manganese, Dissolved	< .01	mg/l			WG468036	03/18/10 11:20
Potassium, Dissolved	< .5	mg/l			WG468036	03/18/10 11:20
Selenium, Dissolved	< .02	mg/l			WG468036	03/18/10 11:20
Silver, Dissolved	< .01	mg/l			WG468036	03/18/10 11:20
Sodium, Dissolved	< .5	mg/l			WG468036	03/18/10 11:20
Sulfide	< .05	mg/l			WG468449	03/19/10 17:28

* 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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Analyte	Units	Result	Duplicate		RPD	Limit	Ref Samp	Batch
			Duplicate					
pH	su	8.80	8.80		0	1	L448898-01	WG467515
pH	su	7.90	7.90		0	1	L449159-01	WG467515
Specific Conductance	umhos/cm	1500	1500		0.266	20	L448989-01	WG467748
Specific Conductance	umhos/cm	67000	67000		0.149	20	L449287-02	WG467748
Alkalinity	mg/l	340.	330.		2.69	20	L449006-01	WG467905
Alkalinity	mg/l	180.	180.		2.20	20	L448989-01	WG467905
Dissolved Solids	mg/l	70.0	71.0		1.42	5	L448854-08	WG467798
Ammonia Nitrogen	mg/l	0	0		0	20	L448999-01	WG468007
Ammonia Nitrogen	mg/l	16.0	15.0		5.19	20	L448587-01	WG468007
Arsenic,Dissolved	mg/l	0	0		0	20	L448999-01	WG468036
Barium,Dissolved	mg/l	0.0770	0.0750		2.37	20	L448999-01	WG468036
Cadmium,Dissolved	mg/l	0	0		0	20	L448999-01	WG468036
Calcium,Dissolved	mg/l	9.00	8.80		2.36	20	L448999-01	WG468036
Chromium,Dissolved	mg/l	0	0		0	20	L448999-01	WG468036
Copper,Dissolved	mg/l	0.180	0.180		0.554	20	L448999-01	WG468036
Iron,Dissolved	mg/l	0	0		0	20	L448999-01	WG468036
Lead,Dissolved	mg/l	0	0		0	20	L448999-01	WG468036
Magnesium,Dissolved	mg/l	0.200	0.200		0.995	20	L448999-01	WG468036
Manganese,Dissolved	mg/l	0	0		0	20	L448999-01	WG468036
Potassium,Dissolved	mg/l	0.720	0.690		4.53	20	L448999-01	WG468036
Selenium,Dissolved	mg/l	0	0		0	20	L448999-01	WG468036
Silver,Dissolved	mg/l	0	0		0	20	L448999-01	WG468036
Sodium,Dissolved	mg/l	290.	290.		0.345	20	L448999-01	WG468036
Sulfide	mg/l	0	0		0	20	L449902-01	WG468449
Sulfide	mg/l	0	0.0110		NA	20	L449913-04	WG468449

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Ethane	mg/l	.645	0.731	113.	70-130	WG467434
Ethene	mg/l	.635	0.741	117.	70-130	WG467434
Methane	mg/l	.339	0.369	109.	70-130	WG467434
Bromide	mg/l	40	38.1	95.3	90-110	WG467488
Fluoride	mg/l	8	7.90	98.8	90-110	WG467488
Nitrate	mg/l	8	8.18	102.	90-110	WG467488
Nitrite	mg/l	8	7.99	99.9	90-110	WG467488
Sulfate	mg/l	40	38.2	95.5	90-110	WG467488
pH	su	6.46	6.40	99.1	97.9-100.8	WG467515
Benzene	mg/l	.025	0.0217	86.9	67-126	WG467643
Ethylbenzene	mg/l	.025	0.0232	92.7	76-129	WG467643
Methyl tert-butyl ether	mg/l	.025	0.0220	88.2	51-142	WG467643
Toluene	mg/l	.025	0.0210	84.1	72-122	WG467643

* 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			
Total Xylenes	mg/l	.075	0.0681	90.7	75-128	WG467643
4-Bromofluorobenzene				100.8	75-128	WG467643
Dibromofluoromethane				105.5	79-125	WG467643
Toluene-d8				104.0	87-114	WG467643
Specific Conductance	umhos/cm	406	400.	98.5	85-115	WG467748
Chloride	mg/l	40	40.0	100.	90-110	WG468112
Alkalinity	mg/l	40	40.7	102.	85-115	WG467905
Dissolved Solids	mg/l	8800	8840	100.	85-115	WG467798
Ammonia Nitrogen	mg/l	7.5	6.88	91.7	90-110	WG468007
Arsenic, Dissolved	mg/l	1.13	1.10	97.3	85-115	WG468036
Barium, Dissolved	mg/l	1.13	1.14	101.	85-115	WG468036
Cadmium, Dissolved	mg/l	1.13	1.15	102.	85-115	WG468036
Calcium, Dissolved	mg/l	11.3	11.4	101.	85-115	WG468036
Chromium, Dissolved	mg/l	1.13	1.14	101.	85-115	WG468036
Copper, Dissolved	mg/l	1.13	1.14	101.	85-115	WG468036
Iron, Dissolved	mg/l	1.13	1.11	98.2	85-115	WG468036
Lead, Dissolved	mg/l	1.13	1.19	105.	85-115	WG468036
Magnesium, Dissolved	mg/l	11.3	11.8	104.	85-115	WG468036
Manganese, Dissolved	mg/l	1.13	1.12	99.1	85-115	WG468036
Potassium, Dissolved	mg/l	11.3	10.9	96.5	85-115	WG468036
Selenium, Dissolved	mg/l	1.13	1.10	97.3	85-115	WG468036
Silver, Dissolved	mg/l	1.13	1.11	98.2	85-115	WG468036
Sodium, Dissolved	mg/l	11.3	11.2	99.1	85-115	WG468036
Sulfide	mg/l	.5	0.532	106.	85-115	WG468449

Analyte	Units	Laboratory Control	Sample Duplicate	Limit	RPD	Limit	Batch
		Result	Ref				
Ethane	mg/l	0.729	0.731	113.	70-130	0.204	WG467434
Ethene	mg/l	0.738	0.741	116.	70-130	0.373	WG467434
Methane	mg/l	0.369	0.369	109.	70-130	0.156	WG467434
Bromide	mg/l	38.1	38.1	95.0	90-110	0	WG467488
Fluoride	mg/l	7.92	7.90	99.0	90-110	0.253	WG467488
Nitrate	mg/l	8.19	8.18	102.	90-110	0.122	WG467488
Nitrite	mg/l	8.00	7.99	100.	90-110	0.125	WG467488
Sulfate	mg/l	38.2	38.2	96.0	90-110	0	WG467488
pH	su	6.40	6.40	99.0	97.9-100.8	0	WG467515
Benzene	mg/l	0.0216	0.0217	86.0	67-126	0.681	WG467643
Ethylbenzene	mg/l	0.0239	0.0232	96.0	76-129	3.17	WG467643

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Analyte	Units	Laboratory Control		Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref	%Rec					
Methyl tert-butyl ether	mg/l	0.0225	0.0220	90.0		51-142	2.08	20	WG467643
Toluene	mg/l	0.0217	0.0210	87.0		72-122	3.04	20	WG467643
Total Xylenes	mg/l	0.0701	0.0681	93.0		75-128	2.88	20	WG467643
4-Bromofluorobenzene				98.26		75-128			WG467643
Dibromofluoromethane				102.2		79-125			WG467643
Toluene-d8				105.4		87-114			WG467643
Specific Conductance	umhos/	400.	400.	98.0		85-115	0	20	WG467748
Chloride	mg/l	39.7	40.0	99.0		90-110	0.753	20	WG468112
Alkalinity	mg/l	41.9	40.7	105.		85-115	2.91	20	WG467905
Dissolved Solids	mg/l	8870	8840	101.		85-115	0.361	20	WG467798
Ammonia Nitrogen	mg/l	7.37	6.88	98.0		90-110	6.88	20	WG468007
Sulfide	mg/l	0.537	0.532	107.		85-115	0.935	20	WG468449

Analyte	Units	Matrix Spike				% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res	TV					
Bromide	mg/l	49.9	2.00	50		95.8	80-120	L448999-01	WG467488
Fluoride	mg/l	11.0	6.20	5		96.0	80-120	L448999-01	WG467488
Nitrate	mg/l	4.91	0	5		98.2	80-120	L448999-01	WG467488
Nitrite	mg/l	4.77	0	5		95.4	80-120	L448999-01	WG467488
Benzene	mg/l	0.421	0	.025		84.2	16-158	L448652-02	WG467643
Ethylbenzene	mg/l	0.478	0	.025		95.6	29-150	L448652-02	WG467643
Methyl tert-butyl ether	mg/l	0.530	0.0850	.025		88.9	24-167	L448652-02	WG467643
Toluene	mg/l	0.412	0	.025		82.5	22-152	L448652-02	WG467643
Total Xylenes	mg/l	1.39	0	.075		92.8	27-151	L448652-02	WG467643
4-Bromofluorobenzene						103.7	75-128		WG467643
Dibromofluoromethane						104.7	79-125		WG467643
Toluene-d8						104.0	87-114		WG467643
Alkalinity	mg/l	1810	1200	200		61.0*	80-120	L448997-01	WG467905
Chloride	mg/l	55.3	5.20	50		100.	80-120	L448951-01	WG468112
Ammonia Nitrogen	mg/l	6.53	1.60	5		98.6	90-110	L448580-01	WG468007
Arsenic, Dissolved	mg/l	1.16	0	1.13		103.	75-125	L448999-01	WG468036
Barium, Dissolved	mg/l	1.20	0.0750	1.13		99.6	75-125	L448999-01	WG468036
Cadmium, Dissolved	mg/l	1.13	0	1.13		100.	75-125	L448999-01	WG468036
Calcium, Dissolved	mg/l	20.1	8.80	11.3		100.	75-125	L448999-01	WG468036
Chromium, Dissolved	mg/l	1.12	0	1.13		99.1	75-125	L448999-01	WG468036
Copper, Dissolved	mg/l	1.36	0.180	1.13		104.	75-125	L448999-01	WG468036

* Performance of this Analyte is outside of established criteria.

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



Encana
Brett Middleton
2717 Co. Rd. 215

Parachute, CO 81635

Quality Assurance Report
Level II

L448989

12065 Lebanon Rd.
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(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

March 22, 2010

Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Iron,Dissolved	mg/l	1.12	0	1.13	99.1	75-125	L448999-01	WG468036
Lead,Dissolved	mg/l	1.19	0	1.13	105.	75-125	L448999-01	WG468036
Magnesium,Dissolved	mg/l	11.9	0.200	11.3	104.	75-125	L448999-01	WG468036
Manganese,Dissolved	mg/l	1.11	0	1.13	98.2	75-125	L448999-01	WG468036
Potassium,Dissolved	mg/l	11.3	0.690	11.3	93.9	75-125	L448999-01	WG468036
Selenium,Dissolved	mg/l	1.11	0	1.13	98.2	75-125	L448999-01	WG468036
Silver,Dissolved	mg/l	0.272	0	1.13	24.1*	75-125	L448999-01	WG468036
Sodium,Dissolved	mg/l	304.	290.	11.3	124.	75-125	L448999-01	WG468036
Sulfide	mg/l	1.02	0.0140	1	101.	80-120	L449913-03	WG468449

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Bromide	mg/l	50.2	49.9	96.4	80-120	0.599	20	L448999-01	WG467488
Fluoride	mg/l	11.0	11.0	96.0	80-120	0	20	L448999-01	WG467488
Nitrate	mg/l	4.94	4.91	98.8	80-120	0.609	20	L448999-01	WG467488
Nitrite	mg/l	4.80	4.77	96.0	80-120	0.627	20	L448999-01	WG467488
Benzene	mg/l	0.420	0.421	83.9	16-158	0.373	21	L448652-02	WG467643
Ethylbenzene	mg/l	0.454	0.478	90.7	29-150	5.20	24	L448652-02	WG467643
Methyl tert-butyl ether	mg/l	0.538	0.530	90.6	24-167	1.58	22	L448652-02	WG467643
Toluene	mg/l	0.405	0.412	81.0	22-152	1.82	22	L448652-02	WG467643
Total Xylenes	mg/l	1.37	1.39	91.4	27-151	1.55	23	L448652-02	WG467643
4-Bromofluorobenzene				102.4	75-128				WG467643
Dibromofluoromethane				103.7	79-125				WG467643
Toluene-d8				103.7	87-114				WG467643
Alkalinity	mg/l	1780	1810	58.0*	80-120	1.67	20	L448997-01	WG467905
Chloride	mg/l	54.0	55.3	97.6	80-120	2.38	20	L448951-01	WG468112
Ammonia Nitrogen	mg/l	6.82	6.53	104.	90-110	4.34	20	L448580-01	WG468007
Arsenic,Dissolved	mg/l	1.11	1.16	98.2	75-125	4.41	20	L448999-01	WG468036
Barium,Dissolved	mg/l	1.18	1.20	97.8	75-125	1.68	20	L448999-01	WG468036
Cadmium,Dissolved	mg/l	1.12	1.13	99.1	75-125	0.889	20	L448999-01	WG468036
Calcium,Dissolved	mg/l	19.9	20.1	98.2	75-125	1.00	20	L448999-01	WG468036
Chromium,Dissolved	mg/l	1.11	1.12	98.2	75-125	0.897	20	L448999-01	WG468036
Copper,Dissolved	mg/l	1.35	1.36	104.	75-125	0.738	20	L448999-01	WG468036
Iron,Dissolved	mg/l	1.15	1.12	102.	75-125	2.64	20	L448999-01	WG468036
Lead,Dissolved	mg/l	1.14	1.19	101.	75-125	4.29	20	L448999-01	WG468036
Magnesium,Dissolved	mg/l	11.8	11.9	103.	75-125	0.844	20	L448999-01	WG468036
Manganese,Dissolved	mg/l	1.10	1.11	97.3	75-125	0.905	20	L448999-01	WG468036
Potassium,Dissolved	mg/l	11.4	11.3	94.8	75-125	0.881	20	L448999-01	WG468036
Selenium,Dissolved	mg/l	1.07	1.11	94.7	75-125	3.67	20	L448999-01	WG468036
Silver,Dissolved	mg/l	0.255	0.272	22.6*	75-125	6.45	20	L448999-01	WG468036
Sodium,Dissolved	mg/l	299.	304.	79.6	75-125	1.66	20	L448999-01	WG468036
Sulfide	mg/l	1.08	1.02	107.	80-120	5.71	20	L449913-03	WG468449

* Performance of this Analyte is outside of established criteria.
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Encana
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Parachute, CO 81635

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Level II

L448989

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

Tax I.D. 62-0814289

Est. 1970

March 22, 2010

Batch number /Run number / Sample number cross reference

WG467434: R1143588: L448989-02 03
WG467488: R1144228: L448989-01
WG467515: R1144823: L448989-01
WG467643: R1145088: L448989-01
WG467748: R1146054: L448989-01
WG468112: R1147890: L448989-01
WG467905: R1147968: L448989-01
WG467798: R1149630: L448989-01
WG468007: R1149668: L448989-01
WG468036: R1149811: L448989-01
WG468322: R1150208: L448989-01
WG468449: R1151448: L448989-01

* * 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.

Encana 2717 Co. Rd. 215 Parachute, CO 81635			Billing information: Brett Middleton 2717 Co. Rd 215 Ste 100 Parachute, CO 81635			Analysis/Container/Preservative <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Alk, AlkBi, AlkCa 500mlHDPE-NoPres</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Anions 500mlHDPE-NoPres</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Dissolved Metals 500mlHDPE-NoPres</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Methan - RSK175 40mlAmb-NoPres</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Methane: RSK175 40mlAmb-NoPres</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">NH3 250mlHDPE-H2SO4</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">SPCON, TDS, PH 500mlHDPE-NoPres</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">SULFIDE 500mlHDPE-NaOH+ZnAc</td> </tr> </table>							Alk, AlkBi, AlkCa 500mlHDPE-NoPres	Anions 500mlHDPE-NoPres	Dissolved Metals 500mlHDPE-NoPres	Methan - RSK175 40mlAmb-NoPres	Methane: RSK175 40mlAmb-NoPres	NH3 250mlHDPE-H2SO4	SPCON, TDS, PH 500mlHDPE-NoPres	SULFIDE 500mlHDPE-NaOH+ZnAc	Chain of Custody Page <u>1</u> of <u>2</u> ESC L-A-B S-C-I-E-N-C-E-S 12065 Lebanon Road Mt. Juliet, TN 37122 Phone: (800) 767-5859 Phone: (615) 758-5858 Fax: (615) 758-5859 A127	
Alk, AlkBi, AlkCa 500mlHDPE-NoPres	Anions 500mlHDPE-NoPres	Dissolved Metals 500mlHDPE-NoPres	Methan - RSK175 40mlAmb-NoPres	Methane: RSK175 40mlAmb-NoPres	NH3 250mlHDPE-H2SO4	SPCON, TDS, PH 500mlHDPE-NoPres	SULFIDE 500mlHDPE-NaOH+ZnAc															
Report to: Brett Middleton			Email: brett.middleton@encana.com																			
Project Description: <u>Moon Quarterly</u>			City/State Collected																			
Phone: (970) 285-2739 FAX: (970) 625-4636			Client Project #:			Lab Project # ENCRCO-BM																
Collected by (print): <u>Aaron Stacy</u>			Site/Facility ID#:			P.O.#:																
Collected by (signature): <u>[Signature]</u> Immediately Packed on Ice N <u> </u> Y <u> </u> ✓			Rush? (Lab MUST Be Notified) ___ Same Day 200% ___ Next Day 100% ___ Two Day 50% ___ Three Day 25%			Date Results Needed <u>Standard</u> Email? ___ No <u> </u> X Yes FAX? ___ No <u> </u> Yes			No. of Cntrs													
Sample ID			Comp/Grab	Matrix*	Depth	Date	Time															
<u>moontank-031110</u>			<u>Grab</u>	<u>GW</u>	<u>-</u>	<u>03/11/10</u>	<u>1110</u>	<u>10</u>	<u>X</u>	<u>X</u>	<u>X</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>			
<u>moontank-031110</u>			<u>Grab</u>	<u>GW</u>	<u>-</u>	<u>03/11/10</u>	<u>1110</u>	<u>2</u>				<u>X</u>										

*Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other _____

pH _____ Temp _____

Flow _____ Other _____

Relinquished by: (Signature) <u>[Signature]</u>	Date: <u>03/11/10</u>	Time: <u>1730</u>	Received by: (Signature) <u>[Signature]</u>	Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/>	Condition: (lab use only)
Relinquished by: (Signature) <u>[Signature]</u>	Date: _____	Time: _____	Received by: (Signature) _____	Temp: <u>67.0</u>	Bottles Received: <u>124TB</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date: _____	Time: _____	Received for lab by: (Signature) <u>[Signature]</u>	Date: <u>3/22/10</u>	Time: <u>0900</u>
				COC Seal Intact: <u> </u> Y <u> </u> N <u> </u> NA	
				pH Checked: <u>C2 212</u>	NCF: <u> </u>

4355 7296 6009

h

ENVIRONMENTAL SCIENCE CORP.

SAMPLE NON-CONFORMANCE FORM

Sample No. : L448989

Date: 03/12/10

Evaluated by: Phillip Duckett

Client: ENCRCO

Non-Conformance (check applicable items)

<input type="checkbox"/>	Chain of Custody is missing	<input checked="" type="checkbox"/>	Login Clarification Needed
<input type="checkbox"/>	Improper container type	<input type="checkbox"/>	Improper preservation
<input type="checkbox"/>	Chain of custody is incomplete	<input type="checkbox"/>	Container lid not intact
<input type="checkbox"/>	Parameter(s) past holding time	<input type="checkbox"/>	Improper temperature
<input type="checkbox"/>	Broken container(s) see below	<input type="checkbox"/>	Broken container: sufficient sample volume remains for analysis requested
<input type="checkbox"/>	Insufficient packing material around container		
<input type="checkbox"/>	Insufficient packing material inside cooler		
<input type="checkbox"/>	Improper handling by carrier (FedEx / UPS / Courier)		
<input type="checkbox"/>	Sample was frozen		

Comments: Client requesting RSK175 on both lines. Both IDs are the same with same time and date. Are these the same sample?

Login Instructions:

TSR Initials: JB

Client informed by call / email / fax / voice mail date: 3/12/10 time: 1242

Client contact:

No, please log seperately.