



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

Charlie Jensen
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

Report Summary

Wednesday October 05, 2011

Report Number: L536627

Samples Received: 09/16/11

Client Project:

Description: West Divide Creek - 02E

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 - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915, PA - 68-02979

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REPORT OF ANALYSIS

Charlie Jensen
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

October 05, 2011

Date Received : September 16, 2011
Description : West Divide Creek - 02E
Sample ID : MW-1-091511
Collected By : Scotty Mann
Collection Date : 09/15/11 10:45

ESC Sample # : L536627-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	28.	1.0	mg/l	9056	09/21/11	1
Methane	BDL	0.010	mg/l	RSK175	09/22/11	1
Ethane	BDL	0.013	mg/l	RSK175	09/22/11	1
Ethene	BDL	0.013	mg/l	RSK175	09/22/11	1
Sodium	260	0.50	mg/l	6010B	09/20/11	1
Benzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Toluene	BDL	0.0050	mg/l	8260B	09/17/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	09/17/11	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/17/11	1
Surrogate Recovery						
Toluene-d8	100.		% Rec.	8260B	09/17/11	1
Dibromofluoromethane	105.		% Rec.	8260B	09/17/11	1
a,a,a-Trifluorotoluene	101.		% Rec.	8260B	09/17/11	1
4-Bromofluorobenzene	100.		% Rec.	8260B	09/17/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Charlie Jensen
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

October 05, 2011

Date Received : September 16, 2011
Description : West Divide Creek - 02E
Sample ID : MW-2-091511
Collected By : Scotty Mann
Collection Date : 09/15/11 11:00

ESC Sample # : L536627-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	56.	1.0	mg/l	9056	09/21/11	1
Sulfate	BDL	5.0	mg/l	9056	10/04/11	1
Alkalinity, Bicarbonate	340	20.	mg/l	2320B	10/03/11	1
Methane	8.0	0.20	mg/l	RSK175	09/22/11	20
Ethane	2.2	0.26	mg/l	RSK175	09/22/11	20
Ethene	BDL	0.26	mg/l	RSK175	09/22/11	20
Calcium	97.	0.50	mg/l	6010B	09/20/11	1
Magnesium	16.	0.10	mg/l	6010B	09/20/11	1
Potassium	4.3	0.50	mg/l	6010B	09/20/11	1
Sodium	140	0.50	mg/l	6010B	09/20/11	1
Benzene	0.13	0.0010	mg/l	8260B	09/17/11	1
Toluene	BDL	0.0050	mg/l	8260B	09/17/11	1
Ethylbenzene	0.0013	0.0010	mg/l	8260B	09/17/11	1
Total Xylenes	0.035	0.0030	mg/l	8260B	09/17/11	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/17/11	1
Surrogate Recovery						
Toluene-d8	99.9		% Rec.	8260B	09/17/11	1
Dibromofluoromethane	102.		% Rec.	8260B	09/17/11	1
a,a,a-Trifluorotoluene	102.		% Rec.	8260B	09/17/11	1
4-Bromofluorobenzene	102.		% Rec.	8260B	09/17/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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October 05, 2011

Date Received : September 16, 2011
Description : West Divide Creek - 02E
Sample ID : MW-4-091511
Collected By : Scotty Mann
Collection Date : 09/15/11 11:15

ESC Sample # : L536627-03

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	35.	1.0	mg/l	9056	09/22/11	1
Sulfate	BDL	5.0	mg/l	9056	09/28/11	1
Alkalinity, Bicarbonate	360	20.	mg/l	2320B	09/28/11	1
Methane	16.	0.40	mg/l	RSK175	09/22/11	40
Ethane	3.5	0.52	mg/l	RSK175	09/22/11	40
Ethene	BDL	0.52	mg/l	RSK175	09/22/11	40
Calcium	63.	0.50	mg/l	6010B	09/20/11	1
Magnesium	9.7	0.10	mg/l	6010B	09/20/11	1
Potassium	1.6	0.50	mg/l	6010B	09/20/11	1
Sodium	140	0.50	mg/l	6010B	09/20/11	1
Benzene	0.057	0.0010	mg/l	8260B	09/17/11	1
Toluene	BDL	0.0050	mg/l	8260B	09/17/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Total Xylenes	0.020	0.0030	mg/l	8260B	09/17/11	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/17/11	1
Surrogate Recovery						
Toluene-d8	100.		% Rec.	8260B	09/17/11	1
Dibromofluoromethane	103.		% Rec.	8260B	09/17/11	1
a,a,a-Trifluorotoluene	101.		% Rec.	8260B	09/17/11	1
4-Bromofluorobenzene	95.8		% Rec.	8260B	09/17/11	1

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Parachute, CO 81635

October 05, 2011

Date Received : September 16, 2011
Description : West Divide Creek - 02E
Sample ID : MW-6-091511
Collected By : Scotty Mann
Collection Date : 09/15/11 09:00

ESC Sample # : L536627-04

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	37.	1.0	mg/l	9056	09/22/11	1
Methane	BDL	0.010	mg/l	RSK175	09/22/11	1
Ethane	BDL	0.013	mg/l	RSK175	09/22/11	1
Ethene	BDL	0.013	mg/l	RSK175	09/22/11	1
Sodium	170	0.50	mg/l	6010B	09/20/11	1
Benzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Toluene	BDL	0.0050	mg/l	8260B	09/17/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	09/17/11	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/17/11	1
Surrogate Recovery						
Toluene-d8	98.2		% Rec.	8260B	09/17/11	1
Dibromofluoromethane	109.		% Rec.	8260B	09/17/11	1
a,a,a-Trifluorotoluene	101.		% Rec.	8260B	09/17/11	1
4-Bromofluorobenzene	99.4		% Rec.	8260B	09/17/11	1

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2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

October 05, 2011

Date Received : September 16, 2011
Description : West Divide Creek - 02E
Sample ID : MW-7-091511
Collected By : Scotty Mann
Collection Date : 09/15/11 09:30

ESC Sample # : L536627-05

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	38.	1.0	mg/l	9056	09/22/11	1
Methane	BDL	0.010	mg/l	RSK175	09/22/11	1
Ethane	BDL	0.013	mg/l	RSK175	09/22/11	1
Ethene	BDL	0.013	mg/l	RSK175	09/22/11	1
Sodium	240	0.50	mg/l	6010B	09/20/11	1
Benzene	BDL	0.0010	mg/l	8260B	09/19/11	1
Toluene	BDL	0.0050	mg/l	8260B	09/19/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/19/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	09/19/11	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/19/11	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	09/19/11	1
Dibromofluoromethane	90.3		% Rec.	8260B	09/19/11	1
a,a,a-Trifluorotoluene	107.		% Rec.	8260B	09/19/11	1
4-Bromofluorobenzene	100.		% Rec.	8260B	09/19/11	1

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Parachute, CO 81635

October 05, 2011

Date Received : September 16, 2011
Description : West Divide Creek - 02E
Sample ID : MW-8-091511
Collected By : Scotty Mann
Collection Date : 09/15/11 09:45

ESC Sample # : L536627-06

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	36.	1.0	mg/l	9056	09/22/11	1
Methane	BDL	0.010	mg/l	RSK175	09/22/11	1
Ethane	BDL	0.013	mg/l	RSK175	09/22/11	1
Ethene	BDL	0.013	mg/l	RSK175	09/22/11	1
Sodium	210	0.50	mg/l	6010B	09/20/11	1
Benzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Toluene	BDL	0.0050	mg/l	8260B	09/17/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	09/17/11	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/17/11	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	09/17/11	1
Dibromofluoromethane	106.		% Rec.	8260B	09/17/11	1
a,a,a-Trifluorotoluene	107.		% Rec.	8260B	09/17/11	1
4-Bromofluorobenzene	111.		% Rec.	8260B	09/17/11	1

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Charlie Jensen
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

October 05, 2011

Date Received : September 16, 2011
Description : West Divide Creek - 02E
Sample ID : MW-9-091511
Collected By : Scotty Mann
Collection Date : 09/15/11 12:15

ESC Sample # : L536627-07

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	18.	1.0	mg/l	9056	09/22/11	1
Sulfate	14.	5.0	mg/l	9056	09/28/11	1
Alkalinity, Bicarbonate	420	20.	mg/l	2320B	09/28/11	1
Methane	4.9	0.080	mg/l	RSK175	09/22/11	8
Ethane	0.64	0.10	mg/l	RSK175	09/22/11	8
Ethene	BDL	0.10	mg/l	RSK175	09/22/11	8
Calcium	100	0.50	mg/l	6010B	09/20/11	1
Magnesium	36.	0.10	mg/l	6010B	09/20/11	1
Potassium	3.8	0.50	mg/l	6010B	09/20/11	1
Sodium	61.	0.50	mg/l	6010B	09/20/11	1
Benzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Toluene	BDL	0.0050	mg/l	8260B	09/17/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	09/17/11	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/17/11	1
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	09/17/11	1
Dibromofluoromethane	103.		% Rec.	8260B	09/17/11	1
a,a,a-Trifluorotoluene	103.		% Rec.	8260B	09/17/11	1
4-Bromofluorobenzene	107.		% Rec.	8260B	09/17/11	1

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Charlie Jensen
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

October 05, 2011

Date Received : September 16, 2011
Description : West Divide Creek - 02E
Sample ID : MW-11-091511
Collected By : Scotty Mann
Collection Date : 09/15/11 12:00

ESC Sample # : L536627-08

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	13.	1.0	mg/l	9056	09/22/11	1
Methane	0.036	0.010	mg/l	RSK175	09/22/11	1
Ethane	BDL	0.013	mg/l	RSK175	09/22/11	1
Ethene	BDL	0.013	mg/l	RSK175	09/22/11	1
Sodium	40.	0.50	mg/l	6010B	09/20/11	1
Benzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Toluene	BDL	0.0050	mg/l	8260B	09/17/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	09/17/11	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/17/11	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	09/17/11	1
Dibromofluoromethane	106.		% Rec.	8260B	09/17/11	1
a,a,a-Trifluorotoluene	108.		% Rec.	8260B	09/17/11	1
4-Bromofluorobenzene	107.		% Rec.	8260B	09/17/11	1

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REPORT OF ANALYSIS

Charlie Jensen
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

October 05, 2011

Date Received : September 16, 2011
Description : West Divide Creek - 02E
Sample ID : MW-12-091411
Collected By : Scotty Mann
Collection Date : 09/14/11 16:15

ESC Sample # : L536627-09

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	20.	1.0	mg/l	9056	09/22/11	1
Methane	0.31	0.010	mg/l	RSK175	09/22/11	1
Ethane	BDL	0.013	mg/l	RSK175	09/22/11	1
Ethene	BDL	0.013	mg/l	RSK175	09/22/11	1
Sodium	84.	0.50	mg/l	6010B	09/20/11	1
Benzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Toluene	BDL	0.0050	mg/l	8260B	09/17/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	09/17/11	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/17/11	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	09/17/11	1
Dibromofluoromethane	104.		% Rec.	8260B	09/17/11	1
a,a,a-Trifluorotoluene	108.		% Rec.	8260B	09/17/11	1
4-Bromofluorobenzene	106.		% Rec.	8260B	09/17/11	1

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Charlie Jensen
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2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

October 05, 2011

Date Received : September 16, 2011
Description : West Divide Creek - 02E
Sample ID : MW-14-091511
Collected By : Scotty Mann
Collection Date : 09/15/11 12:30

ESC Sample # : L536627-10

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	9.6	1.0	mg/l	9056	09/22/11	1
Methane	3.3	0.10	mg/l	RSK175	09/22/11	10
Ethane	0.28	0.13	mg/l	RSK175	09/22/11	10
Ethene	BDL	0.13	mg/l	RSK175	09/22/11	10
Sodium	51.	0.50	mg/l	6010B	09/20/11	1
Benzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Toluene	BDL	0.0050	mg/l	8260B	09/17/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	09/17/11	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/17/11	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	09/17/11	1
Dibromofluoromethane	106.		% Rec.	8260B	09/17/11	1
a,a,a-Trifluorotoluene	104.		% Rec.	8260B	09/17/11	1
4-Bromofluorobenzene	109.		% Rec.	8260B	09/17/11	1

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REPORT OF ANALYSIS

Charlie Jensen
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

October 05, 2011

Date Received : September 16, 2011
Description : West Divide Creek - 02E
Sample ID : MW-16-091511
Collected By : Scotty Mann
Collection Date : 09/15/11 10:30

ESC Sample # : L536627-11

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	40.	1.0	mg/l	9056	09/23/11	1
Methane	0.062	0.010	mg/l	RSK175	09/22/11	1
Ethane	BDL	0.013	mg/l	RSK175	09/22/11	1
Ethene	BDL	0.013	mg/l	RSK175	09/22/11	1
Sodium	250	0.50	mg/l	6010B	09/20/11	1
Benzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Toluene	BDL	0.0050	mg/l	8260B	09/17/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	09/17/11	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/17/11	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	09/17/11	1
Dibromofluoromethane	108.		% Rec.	8260B	09/17/11	1
a,a,a-Trifluorotoluene	106.		% Rec.	8260B	09/17/11	1
4-Bromofluorobenzene	109.		% Rec.	8260B	09/17/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Charlie Jensen
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

October 05, 2011

Date Received : September 16, 2011
Description : West Divide Creek - 02E
Sample ID : MW-17-091511
Collected By : Scotty Mann
Collection Date : 09/15/11 10:00

ESC Sample # : L536627-12

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	64.	1.0	mg/l	9056	09/22/11	1
Methane	5.4	0.10	mg/l	RSK175	09/22/11	10
Ethane	1.3	0.13	mg/l	RSK175	09/22/11	10
Ethene	BDL	0.13	mg/l	RSK175	09/22/11	10
Sodium	240	0.50	mg/l	6010B	09/20/11	1
Benzene	0.064	0.0010	mg/l	8260B	09/17/11	1
Toluene	BDL	0.0050	mg/l	8260B	09/17/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	09/17/11	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/17/11	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	09/17/11	1
Dibromofluoromethane	102.		% Rec.	8260B	09/17/11	1
a,a,a-Trifluorotoluene	107.		% Rec.	8260B	09/17/11	1
4-Bromofluorobenzene	109.		% Rec.	8260B	09/17/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Charlie Jensen
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

October 05, 2011

Date Received : September 16, 2011
Description : West Divide Creek - 02E
Sample ID : MW-18-091411
Collected By : Scotty Mann
Collection Date : 09/14/11 17:40

ESC Sample # : L536627-13

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	8.5	1.0	mg/l	9056	09/24/11	1
Methane	0.89	0.020	mg/l	RSK175	09/22/11	2
Ethane	BDL	0.026	mg/l	RSK175	09/22/11	2
Ethene	BDL	0.026	mg/l	RSK175	09/22/11	2
Sodium	76.	0.50	mg/l	6010B	09/20/11	1
Benzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Toluene	BDL	0.0050	mg/l	8260B	09/17/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	09/17/11	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/17/11	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	09/17/11	1
Dibromofluoromethane	109.		% Rec.	8260B	09/17/11	1
a,a,a-Trifluorotoluene	106.		% Rec.	8260B	09/17/11	1
4-Bromofluorobenzene	108.		% Rec.	8260B	09/17/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Charlie Jensen
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

October 05, 2011

Date Received : September 16, 2011
Description : West Divide Creek - 02E
Sample ID : MW-20-091511
Collected By : Scotty Mann
Collection Date : 09/15/11 13:30

ESC Sample # : L536627-14

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	44.	1.0	mg/l	9056	09/28/11	1
Methane	BDL	0.010	mg/l	RSK175	09/22/11	1
Ethane	BDL	0.013	mg/l	RSK175	09/22/11	1
Ethene	BDL	0.013	mg/l	RSK175	09/22/11	1
Sodium	150	0.50	mg/l	6010B	09/20/11	1
Benzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Toluene	BDL	0.0050	mg/l	8260B	09/17/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	09/17/11	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/17/11	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	09/17/11	1
Dibromofluoromethane	110.		% Rec.	8260B	09/17/11	1
a,a,a-Trifluorotoluene	108.		% Rec.	8260B	09/17/11	1
4-Bromofluorobenzene	109.		% Rec.	8260B	09/17/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Charlie Jensen
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

October 05, 2011

Date Received : September 16, 2011
Description : West Divide Creek - 02E
Sample ID : MW-21-091511
Collected By : Scotty Mann
Collection Date : 09/15/11 13:45

ESC Sample # : L536627-15

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	21.	1.0	mg/l	9056	09/28/11	1
Methane	BDL	0.010	mg/l	RSK175	09/22/11	1
Ethane	BDL	0.013	mg/l	RSK175	09/22/11	1
Ethene	BDL	0.013	mg/l	RSK175	09/22/11	1
Sodium	370	0.50	mg/l	6010B	09/20/11	1
Benzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Toluene	BDL	0.0050	mg/l	8260B	09/17/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	09/17/11	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/17/11	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	09/17/11	1
Dibromofluoromethane	110.		% Rec.	8260B	09/17/11	1
a,a,a-Trifluorotoluene	108.		% Rec.	8260B	09/17/11	1
4-Bromofluorobenzene	114.		% Rec.	8260B	09/17/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Charlie Jensen
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

October 05, 2011

Date Received : September 16, 2011
Description : West Divide Creek - 02E
Sample ID : MW-22-091511
Collected By : Scotty Mann
Collection Date : 09/15/11 13:15

ESC Sample # : L536627-16

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	56.	1.0	mg/l	9056	09/28/11	1
Methane	BDL	0.010	mg/l	RSK175	09/22/11	1
Ethane	BDL	0.013	mg/l	RSK175	09/22/11	1
Ethene	BDL	0.013	mg/l	RSK175	09/22/11	1
Sodium	240	0.50	mg/l	6010B	09/20/11	1
Benzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Toluene	BDL	0.0050	mg/l	8260B	09/17/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	09/17/11	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/17/11	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	09/17/11	1
Dibromofluoromethane	109.		% Rec.	8260B	09/17/11	1
a,a,a-Trifluorotoluene	108.		% Rec.	8260B	09/17/11	1
4-Bromofluorobenzene	107.		% Rec.	8260B	09/17/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Charlie Jensen
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

October 05, 2011

Date Received : September 16, 2011
Description : West Divide Creek - 02E
Sample ID : MW-23-091511
Collected By : Scotty Mann
Collection Date : 09/15/11 09:50

ESC Sample # : L536627-17

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	55.	1.0	mg/l	9056	09/28/11	1
Methane	BDL	0.010	mg/l	RSK175	09/22/11	1
Ethane	BDL	0.013	mg/l	RSK175	09/22/11	1
Ethene	BDL	0.013	mg/l	RSK175	09/22/11	1
Sodium	440	0.50	mg/l	6010B	09/20/11	1
Benzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Toluene	BDL	0.0050	mg/l	8260B	09/17/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	09/17/11	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/17/11	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	09/17/11	1
Dibromofluoromethane	109.		% Rec.	8260B	09/17/11	1
a,a,a-Trifluorotoluene	107.		% Rec.	8260B	09/17/11	1
4-Bromofluorobenzene	106.		% Rec.	8260B	09/17/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Charlie Jensen
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

October 05, 2011

Date Received : September 16, 2011
Description : West Divide Creek - 02E
Sample ID : MW-24-091411
Collected By : Scotty Mann
Collection Date : 09/14/11 16:30

ESC Sample # : L536627-18

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	4.2	1.0	mg/l	9056	09/28/11	1
Methane	BDL	0.010	mg/l	RSK175	09/22/11	1
Ethane	BDL	0.013	mg/l	RSK175	09/22/11	1
Ethene	BDL	0.013	mg/l	RSK175	09/22/11	1
Sodium	46.	0.50	mg/l	6010B	09/20/11	1
Benzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Toluene	BDL	0.0050	mg/l	8260B	09/17/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	09/17/11	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/17/11	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	09/17/11	1
Dibromofluoromethane	110.		% Rec.	8260B	09/17/11	1
a,a,a-Trifluorotoluene	107.		% Rec.	8260B	09/17/11	1
4-Bromofluorobenzene	104.		% Rec.	8260B	09/17/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Charlie Jensen
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

October 05, 2011

Date Received : September 16, 2011
Description : West Divide Creek - 02E
Sample ID : MW-25-091511
Collected By : Scotty Mann
Collection Date : 09/15/11 11:45

ESC Sample # : L536627-19

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	9.7	1.0	mg/l	9056	09/28/11	1
Methane	BDL	0.010	mg/l	RSK175	09/22/11	1
Ethane	BDL	0.013	mg/l	RSK175	09/22/11	1
Ethene	BDL	0.013	mg/l	RSK175	09/22/11	1
Sodium	38.	0.50	mg/l	6010B	09/20/11	1
Benzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Toluene	BDL	0.0050	mg/l	8260B	09/17/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	09/17/11	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/17/11	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	09/17/11	1
Dibromofluoromethane	113.		% Rec.	8260B	09/17/11	1
a,a,a-Trifluorotoluene	108.		% Rec.	8260B	09/17/11	1
4-Bromofluorobenzene	110.		% Rec.	8260B	09/17/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Charlie Jensen
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

October 05, 2011

Date Received : September 16, 2011
Description : West Divide Creek - 02E
Sample ID : MW-26-091511
Collected By : Scotty Mann
Collection Date : 09/15/11 13:00

ESC Sample # : L536627-20

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	10.	1.0	mg/l	9056	09/28/11	1
Methane	1.9	0.10	mg/l	RSK175	09/22/11	10
Ethane	BDL	0.13	mg/l	RSK175	09/22/11	10
Ethene	BDL	0.13	mg/l	RSK175	09/22/11	10
Sodium	96.	0.50	mg/l	6010B	09/23/11	1
Benzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Toluene	BDL	0.0050	mg/l	8260B	09/17/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	09/17/11	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/17/11	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	09/17/11	1
Dibromofluoromethane	109.		% Rec.	8260B	09/17/11	1
a,a,a-Trifluorotoluene	111.		% Rec.	8260B	09/17/11	1
4-Bromofluorobenzene	107.		% Rec.	8260B	09/17/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Charlie Jensen
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

October 05, 2011

Date Received : September 16, 2011
Description : West Divide Creek - 02E
Sample ID : MW-27-091511
Collected By : Scotty Mann
Collection Date : 09/15/11 09:20

ESC Sample # : L536627-21

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	19.	1.0	mg/l	9056	09/28/11	1
Methane	BDL	0.010	mg/l	RSK175	09/22/11	1
Ethane	BDL	0.013	mg/l	RSK175	09/22/11	1
Ethene	BDL	0.013	mg/l	RSK175	09/22/11	1
Sodium	310	0.50	mg/l	6010B	09/23/11	1
Benzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Toluene	BDL	0.0050	mg/l	8260B	09/17/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	09/17/11	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/17/11	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	09/17/11	1
Dibromofluoromethane	113.		% Rec.	8260B	09/17/11	1
a,a,a-Trifluorotoluene	108.		% Rec.	8260B	09/17/11	1
4-Bromofluorobenzene	107.		% Rec.	8260B	09/17/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Charlie Jensen
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

October 05, 2011

Date Received : September 16, 2011
Description : West Divide Creek - 02E
Sample ID : EICH2-091511
Collected By : Scotty Mann
Collection Date : 09/15/11 10:15

ESC Sample # : L536627-22

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	12.	1.0	mg/l	9056	09/28/11	1
Methane	BDL	0.010	mg/l	RSK175	09/22/11	1
Ethane	BDL	0.013	mg/l	RSK175	09/22/11	1
Ethene	BDL	0.013	mg/l	RSK175	09/22/11	1
Sodium	140	0.50	mg/l	6010B	09/23/11	1
Benzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Toluene	BDL	0.0050	mg/l	8260B	09/17/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	09/17/11	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/17/11	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	09/17/11	1
Dibromofluoromethane	109.		% Rec.	8260B	09/17/11	1
a,a,a-Trifluorotoluene	109.		% Rec.	8260B	09/17/11	1
4-Bromofluorobenzene	108.		% Rec.	8260B	09/17/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 10/05/11 08:39 Printed: 10/05/11 08:40



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Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Charlie Jensen
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

October 05, 2011

Date Received : September 16, 2011
Description : West Divide Creek - 02E
Sample ID : DUP-1-091511
Collected By : Scotty Mann
Collection Date : 09/15/11 00:00

ESC Sample # : L536627-23

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	62.	1.0	mg/l	9056	09/21/11	1
Methane	4.1	0.10	mg/l	RSK175	09/22/11	10
Ethane	0.82	0.13	mg/l	RSK175	09/22/11	10
Ethene	BDL	0.13	mg/l	RSK175	09/22/11	10
Sodium	250	0.50	mg/l	6010B	09/23/11	1
Benzene	0.059	0.0010	mg/l	8260B	09/17/11	1
Toluene	BDL	0.0050	mg/l	8260B	09/17/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/17/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	09/17/11	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/17/11	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	09/17/11	1
Dibromofluoromethane	104.		% Rec.	8260B	09/17/11	1
a,a,a-Trifluorotoluene	106.		% Rec.	8260B	09/17/11	1
4-Bromofluorobenzene	107.		% Rec.	8260B	09/17/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Charlie Jensen
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

October 05, 2011

Date Received : September 16, 2011
Description : West Divide Creek - 02E
Sample ID : DUP-2-091511
Collected By : Scotty Mann
Collection Date : 09/15/11 00:00

ESC Sample # : L536627-24

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	54.	1.0	mg/l	9056	09/21/11	1
Methane	7.6	0.20	mg/l	RSK175	09/22/11	20
Ethane	2.0	0.26	mg/l	RSK175	09/22/11	20
Ethene	BDL	0.26	mg/l	RSK175	09/22/11	20
Sodium	140	0.50	mg/l	6010B	09/23/11	1
Benzene	0.049	0.0010	mg/l	8260B	09/23/11	1
Toluene	BDL	0.0050	mg/l	8260B	09/23/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/23/11	1
Total Xylenes	0.030	0.0030	mg/l	8260B	09/23/11	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/23/11	1
Surrogate Recovery						
Toluene-d8	93.4		% Rec.	8260B	09/23/11	1
Dibromofluoromethane	90.8		% Rec.	8260B	09/23/11	1
a,a,a-Trifluorotoluene	103.		% Rec.	8260B	09/23/11	1
4-Bromofluorobenzene	109.		% Rec.	8260B	09/23/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Charlie Jensen
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

October 05, 2011

Date Received : September 16, 2011
Description : West Divide Creek - 02E
Sample ID : DUP-3-091511
Collected By : Scotty Mann
Collection Date : 09/15/11 00:00

ESC Sample # : L536627-25

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	40.	1.0	mg/l	9056	09/22/11	1
Methane	5.3	0.20	mg/l	RSK175	09/22/11	20
Ethane	1.1	0.26	mg/l	RSK175	09/22/11	20
Ethene	BDL	0.26	mg/l	RSK175	09/22/11	20
Sodium	140	0.50	mg/l	6010B	09/23/11	1
Benzene	0.036	0.0010	mg/l	8260B	09/23/11	1
Toluene	BDL	0.0050	mg/l	8260B	09/23/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/23/11	1
Total Xylenes	0.014	0.0030	mg/l	8260B	09/23/11	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/23/11	1
Surrogate Recovery						
Toluene-d8	92.4		% Rec.	8260B	09/23/11	1
Dibromofluoromethane	90.1		% Rec.	8260B	09/23/11	1
a,a,a-Trifluorotoluene	103.		% Rec.	8260B	09/23/11	1
4-Bromofluorobenzene	105.		% Rec.	8260B	09/23/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Reported: 10/05/11 08:39 Printed: 10/05/11 08:40

Summary of Remarks For Samples Printed
10/05/11 at 08:40:48TSR Signing Reports: 358
R5 - Desired TAT

Be sure the sub lab always uses the CLIENT SAMPLE ID on thier reports intstead of the ESC sample ID.

Sample: L536627-01 Account: ENCRCO Received: 09/16/11 09:00 Due Date: 10/04/11 00:00 RPT Date: 10/05/11 08:39
uni 608096 dor 9/30/11.

Sample: L536627-02 Account: ENCRCO Received: 09/16/11 09:00 Due Date: 10/04/11 00:00 RPT Date: 10/05/11 08:39

Sample: L536627-03 Account: ENCRCO Received: 09/16/11 09:00 Due Date: 10/04/11 00:00 RPT Date: 10/05/11 08:39
Added K, Ca, Mg, ALKBI, and Sulfate per JW. AV 9/23

Sample: L536627-04 Account: ENCRCO Received: 09/16/11 09:00 Due Date: 10/04/11 00:00 RPT Date: 10/05/11 08:39

Sample: L536627-05 Account: ENCRCO Received: 09/16/11 09:00 Due Date: 10/04/11 00:00 RPT Date: 10/05/11 08:39

Sample: L536627-06 Account: ENCRCO Received: 09/16/11 09:00 Due Date: 10/04/11 00:00 RPT Date: 10/05/11 08:39

Sample: L536627-07 Account: ENCRCO Received: 09/16/11 09:00 Due Date: 10/04/11 00:00 RPT Date: 10/05/11 08:39
Added K, Ca, Mg, ALKBI, and Sulfate per JW. AV 9/23

Sample: L536627-08 Account: ENCRCO Received: 09/16/11 09:00 Due Date: 10/04/11 00:00 RPT Date: 10/05/11 08:39

Sample: L536627-09 Account: ENCRCO Received: 09/16/11 09:00 Due Date: 10/04/11 00:00 RPT Date: 10/05/11 08:39

Sample: L536627-10 Account: ENCRCO Received: 09/16/11 09:00 Due Date: 10/04/11 00:00 RPT Date: 10/05/11 08:39

Sample: L536627-11 Account: ENCRCO Received: 09/16/11 09:00 Due Date: 10/04/11 00:00 RPT Date: 10/05/11 08:39

Sample: L536627-12 Account: ENCRCO Received: 09/16/11 09:00 Due Date: 10/04/11 00:00 RPT Date: 10/05/11 08:39

Sample: L536627-13 Account: ENCRCO Received: 09/16/11 09:00 Due Date: 10/04/11 00:00 RPT Date: 10/05/11 08:39

Sample: L536627-14 Account: ENCRCO Received: 09/16/11 09:00 Due Date: 10/04/11 00:00 RPT Date: 10/05/11 08:39

Sample: L536627-15 Account: ENCRCO Received: 09/16/11 09:00 Due Date: 10/04/11 00:00 RPT Date: 10/05/11 08:39

Sample: L536627-16 Account: ENCRCO Received: 09/16/11 09:00 Due Date: 10/04/11 00:00 RPT Date: 10/05/11 08:39

Sample: L536627-17 Account: ENCRCO Received: 09/16/11 09:00 Due Date: 10/04/11 00:00 RPT Date: 10/05/11 08:39

Sample: L536627-18 Account: ENCRCO Received: 09/16/11 09:00 Due Date: 10/04/11 00:00 RPT Date: 10/05/11 08:39

Sample: L536627-19 Account: ENCRCO Received: 09/16/11 09:00 Due Date: 10/04/11 00:00 RPT Date: 10/05/11 08:39

Sample: L536627-20 Account: ENCRCO Received: 09/16/11 09:00 Due Date: 10/04/11 00:00 RPT Date: 10/05/11 08:39

Sample: L536627-21 Account: ENCRCO Received: 09/16/11 09:00 Due Date: 10/04/11 00:00 RPT Date: 10/05/11 08:39

Sample: L536627-22 Account: ENCRCO Received: 09/16/11 09:00 Due Date: 10/04/11 00:00 RPT Date: 10/05/11 08:39

Sample: L536627-23 Account: ENCRCO Received: 09/16/11 09:00 Due Date: 10/04/11 00:00 RPT Date: 10/05/11 08:39

Sample: L536627-24 Account: ENCRCO Received: 09/16/11 09:00 Due Date: 10/04/11 00:00 RPT Date: 10/05/11 08:39

Sample: L536627-25 Account: ENCRCO Received: 09/16/11 09:00 Due Date: 10/04/11 00:00 RPT Date: 10/05/11 08:39



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Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< .001	mg/l			WG555650	09/17/11 07:57
Ethylbenzene	< .001	mg/l			WG555650	09/17/11 07:57
Methyl tert-butyl ether	< .001	mg/l			WG555650	09/17/11 07:57
Toluene	< .005	mg/l			WG555650	09/17/11 07:57
Total Xylenes	< .003	mg/l			WG555650	09/17/11 07:57
4-Bromofluorobenzene		% Rec.	99.29	82-120	WG555650	09/17/11 07:57
Dibromofluoromethane		% Rec.	104.1	82-126	WG555650	09/17/11 07:57
Toluene-d8		% Rec.	99.09	92-112	WG555650	09/17/11 07:57
a,a,a-Trifluorotoluene		% Rec.	102.1	90-116	WG555650	09/17/11 07:57
Chloride	< 1	mg/l			WG556272	09/20/11 21:52
Calcium	< .5	mg/l			WG555969	09/20/11 16:11
Magnesium	< .1	mg/l			WG555969	09/20/11 16:11
Potassium	< .5	mg/l			WG555969	09/20/11 16:11
Sodium	< .5	mg/l			WG555969	09/20/11 16:11
Benzene	< .001	mg/l			WG556058	09/19/11 17:12
Ethylbenzene	< .001	mg/l			WG556058	09/19/11 17:12
Methyl tert-butyl ether	< .001	mg/l			WG556058	09/19/11 17:12
Toluene	< .005	mg/l			WG556058	09/19/11 17:12
Total Xylenes	< .003	mg/l			WG556058	09/19/11 17:12
4-Bromofluorobenzene		% Rec.	96.37	82-120	WG556058	09/19/11 17:12
Dibromofluoromethane		% Rec.	102.1	82-126	WG556058	09/19/11 17:12
Toluene-d8		% Rec.	105.4	92-112	WG556058	09/19/11 17:12
a,a,a-Trifluorotoluene		% Rec.	105.5	90-116	WG556058	09/19/11 17:12
Ethane	< .013	mg/l			WG556655	09/22/11 12:54
Ethene	< .013	mg/l			WG556655	09/22/11 12:54
Methane	< .01	mg/l			WG556655	09/22/11 12:54
Ethane	< .013	mg/l			WG556718	09/22/11 14:53
Ethene	< .013	mg/l			WG556718	09/22/11 14:53
Methane	< .01	mg/l			WG556718	09/22/11 14:53
Benzene	< .001	mg/l			WG555651	09/17/11 08:51
Ethylbenzene	< .001	mg/l			WG555651	09/17/11 08:51
Methyl tert-butyl ether	< .001	mg/l			WG555651	09/17/11 08:51
Toluene	< .005	mg/l			WG555651	09/17/11 08:51
Total Xylenes	< .003	mg/l			WG555651	09/17/11 08:51
4-Bromofluorobenzene		% Rec.	113.8	82-120	WG555651	09/17/11 08:51
Dibromofluoromethane		% Rec.	105.0	82-126	WG555651	09/17/11 08:51
Toluene-d8		% Rec.	102.1	92-112	WG555651	09/17/11 08:51
a,a,a-Trifluorotoluene		% Rec.	106.7	90-116	WG555651	09/17/11 08:51
Chloride	< 1	mg/l			WG556533	09/21/11 19:04
Benzene	< .001	mg/l			WG556788	09/22/11 23:12
Ethylbenzene	< .001	mg/l			WG556788	09/22/11 23:12
Methyl tert-butyl ether	< .001	mg/l			WG556788	09/22/11 23:12
Toluene	< .005	mg/l			WG556788	09/22/11 23:12

* 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	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Total Xylenes	< .003	mg/l			WG556788	09/22/11 23:12
4-Bromofluorobenzene		% Rec.	104.0	82-120	WG556788	09/22/11 23:12
Dibromofluoromethane		% Rec.	98.39	82-126	WG556788	09/22/11 23:12
Toluene-d8		% Rec.	95.37	92-112	WG556788	09/22/11 23:12
a,a,a-Trifluorotoluene		% Rec.	106.1	90-116	WG556788	09/22/11 23:12
Chloride	< 1	mg/l			WG556532	09/22/11 14:32
Chloride	< 1	mg/l			WG556858	09/23/11 07:15
Sodium	< .5	mg/l			WG555996	09/23/11 20:20
Chloride	< 1	mg/l			WG556904	09/24/11 07:44
Sulfate	< 5	mg/l			WG557688	09/28/11 07:08
Chloride	< 1	mg/l			WG557687	09/28/11 07:10
Sulfate	< 5	mg/l			WG557687	09/28/11 07:10
Chloride	< 1	mg/l			WG557685	09/28/11 07:11
Sulfate	< 5	mg/l			WG558758	10/04/11 09:08

Analyte	Units	Result	Duplicate		RPD	Limit	Ref Samp	Batch
			Duplicate					
Chloride	mg/l	650.	650.		0.154	20	L536033-02	WG556272
Calcium	mg/l	66.0	0		NA	20	L536627-19	WG555969
Magnesium	mg/l	30.0	0		NA	20	L536627-19	WG555969
Potassium	mg/l	4.80	0		NA	20	L536627-19	WG555969
Sodium	mg/l	39.0	38.0		2.34	20	L536627-19	WG555969
Chloride	mg/l	62.0	62.0		0	20	L536627-23	WG556533
Chloride	mg/l	36.0	40.0		9.15	20	L536627-25	WG556533
Chloride	mg/l	64.0	64.0		0.627	20	L536627-12	WG556532
Chloride	mg/l	8.40	8.40		0.238	20	L536374-02	WG556532
Chloride	mg/l	39.0	40.0		1.51	20	L536627-11	WG556858
Sodium	mg/l	2400	0		NA	20	L536677-01	WG555996
Sulfate	mg/l	86.0	86.0		0.232	20	L538564-05	WG557688

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Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
			Duplicate				
Chloride	mg/l	90.0	91.0	0.551	20	L538563-01	WG557687
Chloride	mg/l	44.0	44.0	0.228	20	L536627-14	WG557687
Sulfate	mg/l	31.0	31.0	0.972	20	L537839-06	WG558758

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Benzene	mg/l	.025	0.0274	110.	72-119	WG555650
Ethylbenzene	mg/l	.025	0.0290	116.	77-124	WG555650
Methyl tert-butyl ether	mg/l	.025	0.0275	110.	67-127	WG555650
Toluene	mg/l	.025	0.0276	110.	75-114	WG555650
Total Xylenes	mg/l	.075	0.0849	113.	77-123	WG555650
4-Bromofluorobenzene				100.1	82-120	WG555650
Dibromofluoromethane				98.87	82-126	WG555650
Toluene-d8				102.2	92-112	WG555650
a,a,a-Trifluorotoluene				103.2	90-116	WG555650
Chloride	mg/l	40	39.8	99.5	90-110	WG556272
Calcium	mg/l	11.3	11.2	99.1	85-115	WG555969
Magnesium	mg/l	11.3	11.6	103.	85-115	WG555969
Potassium	mg/l	11.3	12.1	107.	85-115	WG555969
Sodium	mg/l	11.3	12.9	114.	85-115	WG555969
Benzene	mg/l	.025	0.0225	89.8	72-119	WG556058
Ethylbenzene	mg/l	.025	0.0236	94.4	77-124	WG556058
Methyl tert-butyl ether	mg/l	.025	0.0242	96.6	67-127	WG556058
Toluene	mg/l	.025	0.0223	89.0	75-114	WG556058
Total Xylenes	mg/l	.075	0.0696	92.8	77-123	WG556058
4-Bromofluorobenzene				98.37	82-120	WG556058
Dibromofluoromethane				100.6	82-126	WG556058
Toluene-d8				104.1	92-112	WG556058
a,a,a-Trifluorotoluene				101.5	90-116	WG556058
Ethane	mg/l	.645	0.647	100.	70-130	WG556655
Ethene	mg/l	.635	0.628	98.9	70-130	WG556655
Methane	mg/l	.339	0.315	92.9	70-130	WG556655
Ethane	mg/l	.645	0.686	106.	70-130	WG556718
Ethene	mg/l	.635	0.667	105.	70-130	WG556718
Methane	mg/l	.339	0.334	98.6	70-130	WG556718
Benzene	mg/l	.025	0.0217	86.7	72-119	WG555651
Ethylbenzene	mg/l	.025	0.0236	94.3	77-124	WG555651
Methyl tert-butyl ether	mg/l	.025	0.0260	104.	67-127	WG555651
Toluene	mg/l	.025	0.0220	87.8	75-114	WG555651
Total Xylenes	mg/l	.075	0.0709	94.5	77-123	WG555651
4-Bromofluorobenzene				109.1	82-120	WG555651
Dibromofluoromethane				107.3	82-126	WG555651
Toluene-d8				105.4	92-112	WG555651

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Analyte	Units	Laboratory Control		Sample	% Rec	Limit	Batch
		Known	Val	Result			
a,a,a-Trifluorotoluene					105.5	90-116	
Chloride	mg/l	40		40.0	100.	90-110	WG556533
Benzene	mg/l	.025		0.0223	89.3	72-119	WG556788
Ethylbenzene	mg/l	.025		0.0264	106.	77-124	WG556788
Methyl tert-butyl ether	mg/l	.025		0.0226	90.3	67-127	WG556788
Toluene	mg/l	.025		0.0239	95.6	75-114	WG556788
Total Xylenes	mg/l	.075		0.0805	107.	77-123	WG556788
4-Bromofluorobenzene					100.2	82-120	WG556788
Dibromofluoromethane					89.11	82-126	WG556788
Toluene-d8					99.76	92-112	WG556788
a,a,a-Trifluorotoluene					108.2	90-116	WG556788
Chloride	mg/l	40		40.1	100.	90-110	WG556532
Chloride	mg/l	40		39.6	99.0	90-110	WG556858
Sodium	mg/l	11.3		12.3	109.	85-115	WG555996
Chloride	mg/l	40		40.3	101.	90-110	WG556904
Sulfate	mg/l	40		39.8	99.5	90-110	WG557688
Chloride	mg/l	40		39.5	98.8	90-110	WG557687
Sulfate	mg/l	40		39.3	98.3	90-110	WG557687
Chloride	mg/l	40		39.5	98.8	90-110	WG557685
Sulfate	mg/l	40		39.7	99.3	90-110	WG558758

Analyte	Units	Laboratory Control		Sample Duplicate	Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Benzene	mg/l	0.0265	0.0274	106.	72-119	3.45	20	WG555650
Ethylbenzene	mg/l	0.0278	0.0290	111.	77-124	4.13	20	WG555650
Methyl tert-butyl ether	mg/l	0.0272	0.0275	109.	67-127	0.790	20	WG555650
Toluene	mg/l	0.0259	0.0276	104.	75-114	6.12	20	WG555650
Total Xylenes	mg/l	0.0820	0.0849	109.	77-123	3.44	20	WG555650
4-Bromofluorobenzene				98.68	82-120			WG555650
Dibromofluoromethane				103.2	82-126			WG555650
Toluene-d8				102.8	92-112			WG555650
a,a,a-Trifluorotoluene				103.3	90-116			WG555650
Chloride	mg/l	39.8	39.8	100.	90-110	0	20	WG556272
Benzene	mg/l	0.0237	0.0225	95.0	72-119	5.38	20	WG556058
Ethylbenzene	mg/l	0.0242	0.0236	97.0	77-124	2.71	20	WG556058
Methyl tert-butyl ether	mg/l	0.0262	0.0242	105.	67-127	8.26	20	WG556058

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Analyte	Laboratory Control Sample Duplicate				Limit	RPD	Limit	Batch
	Units	Result	Ref	%Rec				
Toluene	mg/l	0.0224	0.0223	90.0	75-114	0.550	20	WG556058
Total Xylenes	mg/l	0.0740	0.0696	99.0	77-123	6.10	20	WG556058
4-Bromofluorobenzene				98.31	82-120			WG556058
Dibromofluoromethane				104.1	82-126			WG556058
Toluene-d8				102.2	92-112			WG556058
a,a,a-Trifluorotoluene				104.4	90-116			WG556058
Ethane	mg/l	0.644	0.647	100.	70-130	0.440	25	WG556655
Ethene	mg/l	0.624	0.628	98.0	70-130	0.620	25	WG556655
Methane	mg/l	0.310	0.315	92.0	70-130	1.49	25	WG556655
Ethane	mg/l	0.680	0.686	105.	70-130	0.860	25	WG556718
Ethene	mg/l	0.662	0.667	104.	70-130	0.730	25	WG556718
Methane	mg/l	0.330	0.334	97.0	70-130	1.26	25	WG556718
Benzene	mg/l	0.0226	0.0217	90.0	72-119	4.15	20	WG555651
Ethylbenzene	mg/l	0.0269	0.0236	108.	77-124	13.2	20	WG555651
Methyl tert-butyl ether	mg/l	0.0252	0.0260	101.	67-127	2.88	20	WG555651
Toluene	mg/l	0.0235	0.0220	94.0	75-114	6.87	20	WG555651
Total Xylenes	mg/l	0.0822	0.0709	110.	77-123	14.8	20	WG555651
4-Bromofluorobenzene				111.3	82-120			WG555651
Dibromofluoromethane				102.8	82-126			WG555651
Toluene-d8				105.0	92-112			WG555651
a,a,a-Trifluorotoluene				109.4	90-116			WG555651
Chloride	mg/l	40.0	40.0	100.	90-110	0	20	WG556533
Benzene	mg/l	0.0234	0.0223	94.0	72-119	4.61	20	WG556788
Ethylbenzene	mg/l	0.0275	0.0264	110.	77-124	4.21	20	WG556788
Methyl tert-butyl ether	mg/l	0.0219	0.0226	87.0	67-127	3.29	20	WG556788
Toluene	mg/l	0.0236	0.0239	94.0	75-114	1.28	20	WG556788
Total Xylenes	mg/l	0.0834	0.0805	111.	77-123	3.51	20	WG556788
4-Bromofluorobenzene				100.1	82-120			WG556788
Dibromofluoromethane				90.28	82-126			WG556788
Toluene-d8				98.90	92-112			WG556788
a,a,a-Trifluorotoluene				107.3	90-116			WG556788
Chloride	mg/l	40.1	40.1	100.	90-110	0	20	WG556532
Chloride	mg/l	39.7	39.6	99.0	90-110	0.252	20	WG556858
Chloride	mg/l	40.2	40.3	100.	90-110	0.248	20	WG556904
Sulfate	mg/l	39.9	39.8	100.	90-110	0.251	20	WG557688
Chloride	mg/l	39.6	39.5	99.0	90-110	0.253	20	WG557687
Sulfate	mg/l	39.4	39.3	98.0	90-110	0.254	20	WG557687

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		Result	Ref	%Rec					
Chloride	mg/l	39.5	39.5	99.0		90-110	0	20	WG557685
Sulfate	mg/l	39.8	39.7	100.		90-110	0.252	20	WG558758
Analyte	Units	MS Res	Matrix Spike		TV	% Rec	Limit	Ref Samp	Batch
			Ref	Res					
Benzene	mg/l	0.0319	0		.025	128.	51-134	L536488-04	WG555650
Ethylbenzene	mg/l	0.0323	0		.025	129.	64-135	L536488-04	WG555650
Methyl tert-butyl ether	mg/l	0.206	0.171		.025	140.*	55-136	L536488-04	WG555650
Toluene	mg/l	0.0305	0		.025	122.	61-126	L536488-04	WG555650
Total Xylenes	mg/l	0.0946	0		.075	126.	64-133	L536488-04	WG555650
4-Bromofluorobenzene						104.0	82-120		WG555650
Dibromofluoromethane						104.2	82-126		WG555650
Toluene-d8						102.8	92-112		WG555650
a,a,a-Trifluorotoluene						108.7	90-116		WG555650
Calcium	mg/l	76.9	0		11.3	680.*	75-125	L536627-19	WG555969
Magnesium	mg/l	40.7	0		11.3	360.*	75-125	L536627-19	WG555969
Potassium	mg/l	16.4	0		11.3	145.*	75-125	L536627-19	WG555969
Sodium	mg/l	50.6	38.0		11.3	112.	75-125	L536627-19	WG555969
Benzene	mg/l	0.0273	0		.025	109.	51-134	L536898-01	WG556058
Ethylbenzene	mg/l	0.0257	0		.025	103.	64-135	L536898-01	WG556058
Methyl tert-butyl ether	mg/l	0.0260	0		.025	104.	55-136	L536898-01	WG556058
Toluene	mg/l	0.0254	0		.025	102.	61-126	L536898-01	WG556058
Total Xylenes	mg/l	0.0756	0		.075	101.	64-133	L536898-01	WG556058
4-Bromofluorobenzene						95.00	82-120		WG556058
Dibromofluoromethane						106.3	82-126		WG556058
Toluene-d8						103.2	92-112		WG556058
a,a,a-Trifluorotoluene						105.1	90-116		WG556058
Benzene	mg/l	0.0214	0		.025	85.6	51-134	L536627-06	WG555651
Ethylbenzene	mg/l	0.0238	0		.025	95.2	64-135	L536627-06	WG555651
Methyl tert-butyl ether	mg/l	0.0259	0		.025	104.	55-136	L536627-06	WG555651
Toluene	mg/l	0.0219	0		.025	87.5	61-126	L536627-06	WG555651
Total Xylenes	mg/l	0.0701	0		.075	93.4	64-133	L536627-06	WG555651
4-Bromofluorobenzene						106.5	82-120		WG555651
Dibromofluoromethane						107.6	82-126		WG555651
Toluene-d8						104.4	92-112		WG555651
a,a,a-Trifluorotoluene						105.8	90-116		WG555651
Chloride	mg/l	59.2	9.20	50	100.		80-120	L536784-06	WG556533
Benzene	mg/l	0.0709	0.0490		.025	87.5	51-134	L536627-24	WG556788
Ethylbenzene	mg/l	0.0278	0		.025	111.	64-135	L536627-24	WG556788
Methyl tert-butyl ether	mg/l	0.0247	0		.025	98.6	55-136	L536627-24	WG556788
Toluene	mg/l	0.0238	0		.025	95.1	61-126	L536627-24	WG556788
Total Xylenes	mg/l	0.115	0.0300		.075	113.	64-133	L536627-24	WG556788
4-Bromofluorobenzene						101.6	82-120		WG556788
Dibromofluoromethane						92.58	82-126		WG556788
Toluene-d8						96.68	92-112		WG556788
a,a,a-Trifluorotoluene						104.4	90-116		WG556788

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Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Chloride	mg/l	83.9	35.0	50	97.8	80-120	L536627-03	WG555632
Sodium	mg/l	2560	0	2.26	22600*	75-125	L536677-01	WG555996
Chloride	mg/l	97.3	50.0	50	94.6	80-120	L538563-02	WG557687
Sulfate	mg/l	95.8	48.0	50	95.6	80-120	L538563-02	WG557687
Sulfate	mg/l	62.4	13.0	50	98.8	80-120	L537839-05	WG558758

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Benzene	mg/l	0.0277	0.0319	111.	51-134	14.2	20	L536488-04	WG555650
Ethylbenzene	mg/l	0.0280	0.0323	112.	64-135	14.1	20	L536488-04	WG555650
Methyl tert-butyl ether	mg/l	0.195	0.206	97.0	55-136	5.40	20	L536488-04	WG555650
Toluene	mg/l	0.0267	0.0305	107.	61-126	13.3	20	L536488-04	WG555650
Total Xylenes	mg/l	0.0831	0.0946	111.	64-133	12.9	20	L536488-04	WG555650
4-Bromofluorobenzene				103.3	82-120				WG555650
Dibromofluoromethane				101.9	82-126				WG555650
Toluene-d8				102.0	92-112				WG555650
a,a,a-Trifluorotoluene				102.5	90-116				WG555650
Calcium	mg/l	78.3	76.9	693.*	75-125	1.80	20	L536627-19	WG555969
Magnesium	mg/l	41.6	40.7	368.*	75-125	2.19	20	L536627-19	WG555969
Potassium	mg/l	17.1	16.4	151.*	75-125	4.18	20	L536627-19	WG555969
Sodium	mg/l	50.3	50.6	109.	75-125	0.595	20	L536627-19	WG555969
Benzene	mg/l	0.0273	0.0273	109.	51-134	0.190	20	L536898-01	WG556058
Ethylbenzene	mg/l	0.0254	0.0257	101.	64-135	1.40	20	L536898-01	WG556058
Methyl tert-butyl ether	mg/l	0.0262	0.0260	105.	55-136	0.780	20	L536898-01	WG556058
Toluene	mg/l	0.0254	0.0254	101.	61-126	0.230	20	L536898-01	WG556058
Total Xylenes	mg/l	0.0743	0.0756	99.1	64-133	1.77	20	L536898-01	WG556058
4-Bromofluorobenzene				92.88	82-120				WG556058
Dibromofluoromethane				106.1	82-126				WG556058
Toluene-d8				101.7	92-112				WG556058
a,a,a-Trifluorotoluene				102.1	90-116				WG556058
Benzene	mg/l	0.0207	0.0214	82.7	51-134	3.47	20	L536627-06	WG555651
Ethylbenzene	mg/l	0.0234	0.0238	93.7	64-135	1.64	20	L536627-06	WG555651
Methyl tert-butyl ether	mg/l	0.0242	0.0259	96.6	55-136	7.01	20	L536627-06	WG555651
Toluene	mg/l	0.0209	0.0219	83.8	61-126	4.33	20	L536627-06	WG555651
Total Xylenes	mg/l	0.0706	0.0701	94.1	64-133	0.710	20	L536627-06	WG555651
4-Bromofluorobenzene				108.0	82-120				WG555651
Dibromofluoromethane				105.4	82-126				WG555651
Toluene-d8				104.6	92-112				WG555651
a,a,a-Trifluorotoluene				105.7	90-116				WG555651
Chloride	mg/l	61.0	59.2	104.	80-120	3.00	20	L536784-06	WG555633
Benzene	mg/l	0.0728	0.0709	95.2	51-134	2.66	20	L536627-24	WG556788
Ethylbenzene	mg/l	0.0270	0.0278	108.	64-135	2.88	20	L536627-24	WG556788

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			Ref	%Rec					
Methyl tert-butyl ether	mg/l	0.0232	0.0247	92.8	55-136	6.08	20	L536627-24	WG556788
Toluene	mg/l	0.0231	0.0238	92.4	61-126	2.80	20	L536627-24	WG556788
Total Xylenes	mg/l	0.111	0.115	108.	64-133	2.73	20	L536627-24	WG556788
4-Bromofluorobenzene				98.89	82-120				WG556788
Dibromofluoromethane				91.00	82-126				WG556788
Toluene-d8				94.79	92-112				WG556788
a,a,a-Trifluorotoluene				101.8	90-116				WG556788
Chloride	mg/l	82.8	83.9	95.6	80-120	1.32	20	L536627-03	WG556532
Sodium	mg/l	2460	2560	21800*	75-125	3.98	20	L536677-01	WG555996
Chloride	mg/l	97.6	97.3	95.2	80-120	0.308	20	L538563-02	WG557687
Sulfate	mg/l	96.3	95.8	96.6	80-120	0.521	20	L538563-02	WG557687
Sulfate	mg/l	63.3	62.4	101.	80-120	1.43	20	L537839-05	WG558758

Batch number /Run number / Sample number cross reference

WG555650: R1863532: L536627-01 02 03 04
WG556272: R1866212: L536627-01 02
WG555969: R1866433: L536627-01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19
WG555996: R1866732: L536627-20 21 22 23 24 25
WG556058: R1867854: L536627-05
WG556655: R1868458: L536627-01 02 03 04 05 06 07 08 09 10 11 12 13 14
WG556718: R1868459: L536627-15 16 17 18 19 20 21 22 23 24 25
WG555651: R1868717: L536627-06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
WG556533: R1868934: L536627-23 24 25
WG556788: R1869195: L536627-24 25
WG556532: R1869233: L536627-03 04 05 06 07 08 09 10 12
WG556858: R1869451: L536627-11
WG556904: R1872613: L536627-13
WG557439: R1873852: L536627-03 07
WG557688: R1875592: L536627-03
WG557687: R1875756: L536627-07 14 15 16 17 18 19
WG557685: R1875875: L536627-20 21 22
WG558703: R1882492: L536627-02
WG558758: R1883468: L536627-02

* * 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.