

ANALYTICAL REPORT

Job Number: 280-13610-1

Job Description: Burkhart # 200300876

For:
Colorado Oil&Gas Conservation Commision
1120 Lincoln St.
Suite 801
Denver, CO 80203
Attention: John Axelson



Approved for release.
Lori A Parsons
Project Manager I
3/30/2011 2:56 PM

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03/30/2011

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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CASE NARRATIVE

Client: Colorado Oil&Gas Conservation Commission

Project: Burkhart # 200300876

Report Number: 280-13610-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 03/17/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.1 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples BURKHART WW (280-13610-1) and TRIP BLANK (280-13610-2) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 03/26/2011.

No difficulties were encountered during the volatiles analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED GASES

Sample BURKHART WW (280-13610-1) was analyzed for dissolved gases in accordance with RSK_175. The samples were analyzed on 03/25/2011.

No difficulties were encountered during the dissolved gases analysis.

All quality control parameters were within the acceptance limits.

GAS RANGE ORGANICS

Sample BURKHART WW (280-13610-1) was analyzed for gas range organics in accordance with EPA SW-846 Method 8015B - GRO. The samples were analyzed on 03/25/2011.

No difficulties were encountered during the GRO analysis.

All quality control parameters were within the acceptance limits.

DIESEL RANGE ORGANICS

Sample BURKHART WW (280-13610-1) was analyzed for Diesel Range Organics in accordance with EPA SW-846 Method 8015B - DRO. The samples were prepared on 03/17/2011 and analyzed on 03/23/2011.

No difficulties were encountered during the DRO analysis.

All quality control parameters were within the acceptance limits.

TOTAL METALS

Sample BURKHART WW (280-13610-1) was analyzed for total metals in accordance with EPA SW-846 Method 6010B. The samples were prepared on 03/18/2011 and analyzed on 03/21/2011.

The Continuing Calibration Verification (CCV) associated with analytical batch 58699 exhibited a percent difference above the control limits for sodium. The only sample associated to this CCV was the Method Blank and this sample was non-detect for sodium; therefore the data has been qualified and reported.

The serial dilution associated with analytical batch 58699 was outside the control limits for sodium and magnesium.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

TOTAL METALS - URANIUM

Sample BURKHART WW (280-13610-1) was analyzed for total metals in accordance with EPA SW-846 Method 6020. The samples were prepared on 03/22/2011 and analyzed on 03/24/2011.

The Continuing Calibration Verification (CCV) associated with analytical batch 59261 exhibited a percent difference above the control limits for uranium. The associated samples were non-detect for uranium therefore the data was qualified and reported.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

SODIUM ABSORPTION RATIO

Sample BURKHART WW (280-13610-1) was analyzed for Sodium Absorption Ratio in accordance with USDA Handbook 60 - 20B. The samples were analyzed on 03/24/2011.

No difficulties were encountered during the SAR analysis.

All quality control parameters were within the acceptance limits.

ANIONS

Sample BURKHART WW (280-13610-1) was analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 03/21/2011.

Sample BURKHART WW (280-13610-1)[5X] required dilution prior to analysis for sulfate. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the anions analysis.

All quality control parameters were within the acceptance limits.

NITRATE-NITRITE AS NITROGEN

Sample BURKHART WW (280-13610-1) was analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 03/23/2011.

No difficulties were encountered during the nitrate-nitrite analysis.

All quality control parameters were within the acceptance limits.

ALKALINITY

Sample BURKHART WW (280-13610-1) was analyzed for Alkalinity in accordance with SM20 2320B. The samples were analyzed on 03/18/2011.

No difficulties were encountered during the alkalinity analysis.

All quality control parameters were within the acceptance limits.

SPECIFIC CONDUCTIVITY

Sample BURKHART WW (280-13610-1) was analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 03/22/2011.

No difficulties were encountered during the conductivity analysis.

All quality control parameters were within the acceptance limits.

TOTAL DISSOLVED SOLIDS

Sample BURKHART WW (280-13610-1) was analyzed for total dissolved solids in accordance with SM20 2540C. The samples were analyzed on 03/22/2011.

No difficulties were encountered during the TDS analysis.

All quality control parameters were within the acceptance limits.

CATION ANION BALANCE

Sample BURKHART WW (280-13610-1) was analyzed for Cation Anion Balance in accordance with Cation Anion Balance. The samples

were analyzed on 03/28/2011.

No other difficulties were encountered during the Cation Anion Balance analysis.

All other quality control parameters were within the acceptance limits.

CORROSIVITY (PH)

Sample BURKHART WW (280-13610-1) was analyzed for corrosivity (pH) in accordance with SM20 4500 H+ B. The samples were analyzed on 03/17/2011.

No other difficulties were encountered during the pH analysis.

All other quality control parameters were within the acceptance limits.

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-13610-1

SDG No.: _____

Instrument ID: GCV_L Analysis Batch Number: 52512Lab Sample ID: IC 280-52512/3 Client Sample ID: _____Date Analyzed: 01/25/11 12:20 Lab File ID: 127F0301.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.15	Baseline Event	mooret	02/09/11 13:57
Gasoline Range Organics (GRO) -C6-C10	13.71	Baseline Event	mooret	02/09/11 13:57
C5-C12	14.30	Baseline Event	mooret	02/09/11 13:57
C6-C12	15.04	Baseline Event	mooret	02/09/11 13:57
1-Chloro-4-fluorobenzene	16.77	Baseline Event	mooret	02/09/11 13:57
Chlorobenzene	17.07	Baseline Event	mooret	02/09/11 13:57

Lab Sample ID: IC 280-52512/4 Client Sample ID: _____Date Analyzed: 01/25/11 12:59 Lab File ID: 128F0401.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.15	Baseline Event	mooret	02/09/11 13:58
Gasoline Range Organics (GRO) -C6-C10	13.71	Baseline Event	mooret	02/09/11 13:58
C5-C12	14.30	Baseline Event	mooret	02/09/11 13:58
C6-C12	15.04	Baseline Event	mooret	02/09/11 13:58
1-Chloro-4-fluorobenzene	16.77	Baseline Event	mooret	02/09/11 13:58
Chlorobenzene	17.07	Baseline Event	mooret	02/09/11 13:58

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-13610-1

SDG No.: _____

Instrument ID: GCV_L Analysis Batch Number: 52512Lab Sample ID: ICRT 280-52512/5 Client Sample ID: _____Date Analyzed: 01/25/11 13:37 Lab File ID: 129F0501.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.15	Baseline Event	mooret	02/09/11 13:55
Gasoline Range Organics (GRO) -C6-C10	13.71	Baseline Event	mooret	02/09/11 13:55
C5-C12	14.30	Baseline Event	mooret	02/09/11 13:55
C6-C12	15.04	Baseline Event	mooret	02/09/11 13:55
1-Chloro-4-fluorobenzene	16.78	Baseline Event	mooret	02/09/11 13:55
Chlorobenzene	17.08	Baseline Event	mooret	02/09/11 13:55

Lab Sample ID: IC 280-52512/6 Client Sample ID: _____Date Analyzed: 01/25/11 14:15 Lab File ID: 130F0601.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.15	Baseline Event	mooret	02/09/11 13:59
Gasoline Range Organics (GRO) -C6-C10	13.71	Baseline Event	mooret	02/09/11 13:59
C5-C12	14.30	Baseline Event	mooret	02/09/11 13:59
C6-C12	15.04	Baseline Event	mooret	02/09/11 13:59
1-Chloro-4-fluorobenzene	16.78	Baseline Event	mooret	02/09/11 13:59
Chlorobenzene	17.07	Baseline Event	mooret	02/09/11 13:59

Lab Sample ID: IC 280-52512/7 Client Sample ID: _____Date Analyzed: 01/25/11 14:53 Lab File ID: 131F0701.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.16	Baseline Event	mooret	02/09/11 14:00
1-Chloro-4-fluorobenzene	16.77	Baseline Event	mooret	02/09/11 14:00
Chlorobenzene	17.07	Baseline Event	mooret	02/09/11 14:00

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-13610-1

SDG No.: _____

Instrument ID: GCV_L Analysis Batch Number: 52512Lab Sample ID: IC 280-52512/8 Client Sample ID: _____Date Analyzed: 01/25/11 15:31 Lab File ID: 132F0801.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.16	Baseline Event	mooret	02/09/11 14:00
1-Chloro-4-fluorobenzene	16.77	Baseline Event	mooret	02/09/11 14:00
Chlorobenzene	17.07	Baseline Event	mooret	02/09/11 14:00

Lab Sample ID: ICV 280-52512/9 Client Sample ID: _____Date Analyzed: 01/25/11 17:10 Lab File ID: 202F1001.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.15	Baseline Event	mooret	02/09/11 14:02
Chlorobenzene	17.08	Baseline Event	mooret	02/09/11 14:02

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-13610-1

SDG No.: _____

Instrument ID: GCV_L Analysis Batch Number: 59592Lab Sample ID: CCVRT 280-59592/2 Client Sample ID: _____Date Analyzed: 03/25/11 11:16 Lab File ID: 102F0201.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.12	Baseline Event	target	03/25/11 11:49
Chlorobenzene	17.04	Baseline Event	target	03/25/11 11:49

Lab Sample ID: LCS 280-59592/3 Client Sample ID: _____Date Analyzed: 03/25/11 12:09 Lab File ID: 103F0301.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.13	Baseline Event	gaskilld	03/25/11 12:49

Lab Sample ID: LCSD 280-59592/4 Client Sample ID: _____Date Analyzed: 03/25/11 12:47 Lab File ID: 104F0401.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.12	Baseline Event	gaskilld	03/25/11 14:11

Lab Sample ID: 280-13778-Z-1 MS Client Sample ID: _____Date Analyzed: 03/25/11 14:53 Lab File ID: 107F0701.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.13	Baseline Event	gaskilld	03/28/11 08:57

Lab Sample ID: 280-13778-Z-1 MSD Client Sample ID: _____Date Analyzed: 03/25/11 15:31 Lab File ID: 108F0801.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.12	Baseline Event	gaskilld	03/28/11 08:55

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-13610-1

SDG No.: _____

Instrument ID: GCV_L Analysis Batch Number: 59592Lab Sample ID: CCV 280-59592/15 Client Sample ID: _____Date Analyzed: 03/25/11 19:55 Lab File ID: 115F1501.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.11	Baseline Event	gaskilld	03/28/11 08:55
Chlorobenzene	17.03	Baseline Event	gaskilld	03/28/11 08:55

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-13610-1

SDG No.: _____

Instrument ID: GCV_J Analysis Batch Number: 59408Lab Sample ID: 280-13610-1 Client Sample ID: BURKHART WWDate Analyzed: 03/25/11 11:21 Lab File ID: 013F1301.D GC Column: RT-VPLOT ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	1.22	Baseline Event	SmithM	03/25/11 11:40

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-13610-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 57207Lab Sample ID: IC 280-57207/2 Client Sample ID: _____Date Analyzed: 03/11/11 13:50 Lab File ID: 004B0401.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	3.55	Baseline Event	birdsellm	03/12/11 14:49
C10-C24	3.78	Baseline Event	birdsellm	03/12/11 14:49
C10-C25	3.89	Baseline Event	birdsellm	03/12/11 14:49
Diesel Range Organics [C10-C28]	4.19	Baseline Event	birdsellm	03/12/11 14:49
C8-C34	4.43	Baseline Event	birdsellm	03/12/11 00:00
C10-C32	4.55	Baseline Event	birdsellm	03/12/11 14:49
C10-C36	4.88	Baseline Event	birdsellm	03/12/11 14:49

Lab Sample ID: IC 280-57207/3 Client Sample ID: _____Date Analyzed: 03/11/11 14:18 Lab File ID: 005B0501.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	3.55	Baseline Event	birdsellm	03/12/11 14:49
C10-C24	3.78	Baseline Event	birdsellm	03/12/11 14:49
C10-C25	3.89	Baseline Event	birdsellm	03/12/11 14:49
Diesel Range Organics [C10-C28]	4.19	Baseline Event	birdsellm	03/12/11 14:49
C8-C34	4.43	Baseline Event	birdsellm	03/12/11 14:49
C10-C32	4.55	Baseline Event	birdsellm	03/12/11 14:49
C10-C36	4.88	Baseline Event	birdsellm	03/12/11 14:49
o-Terphenyl	5.30	Baseline Event	birdsellm	03/12/11 14:49
n-Octacosane	7.53	Baseline Event	birdsellm	03/12/11 14:49

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-13610-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 57207Lab Sample ID: IC 280-57207/4 Client Sample ID: _____Date Analyzed: 03/11/11 14:46 Lab File ID: 006B0601.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	3.55	Baseline Event	birdsellm	03/12/11 14:50
C10-C24	3.78	Baseline Event	birdsellm	03/12/11 14:50
C10-C25	3.89	Baseline Event	birdsellm	03/12/11 14:50
Diesel Range Organics [C10-C28]	4.19	Baseline Event	birdsellm	03/12/11 14:50
C8-C34	4.43	Baseline Event	birdsellm	03/12/11 14:50
C10-C32	4.55	Baseline Event	birdsellm	03/12/11 14:50
C10-C36	4.88	Baseline Event	birdsellm	03/12/11 14:50
o-Terphenyl	5.29	Baseline Event	birdsellm	03/12/11 14:50
n-Octacosane	7.53	Baseline Event	birdsellm	03/12/11 14:50

Lab Sample ID: ICRT 280-57207/5 Client Sample ID: _____Date Analyzed: 03/11/11 15:14 Lab File ID: 007B0701.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	3.55	Baseline Event	birdsellm	03/12/11 14:47
C10-C24	3.78	Baseline Event	birdsellm	03/12/11 14:47
C10-C25	3.89	Baseline Event	birdsellm	03/12/11 14:47
Diesel Range Organics [C10-C28]	4.19	Baseline Event	birdsellm	03/12/11 14:47
C10-C32	4.55	Baseline Event	birdsellm	03/12/11 14:47
C10-C36	4.88	Baseline Event	birdsellm	03/12/11 14:47
o-Terphenyl	5.29	Baseline Event	birdsellm	03/12/11 14:47
n-Octacosane	7.53	Baseline Event	birdsellm	03/12/11 14:47

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-13610-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 57207Lab Sample ID: IC 280-57207/6 Client Sample ID: _____Date Analyzed: 03/11/11 15:42 Lab File ID: 008B0801.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	3.55	Baseline Event	birdsellm	03/12/11 14:50
C10-C24	3.78	Baseline Event	birdsellm	03/12/11 14:50
C10-C25	3.89	Baseline Event	birdsellm	03/12/11 14:50
Diesel Range Organics [C10-C28]	4.19	Baseline Event	birdsellm	03/12/11 14:50
C8-C34	4.43	Baseline Event	birdsellm	03/12/11 14:50
C10-C32	4.55	Baseline Event	birdsellm	03/12/11 14:50
C10-C36	4.88	Baseline Event	birdsellm	03/12/11 14:50
o-Terphenyl	5.29	Baseline Event	birdsellm	03/12/11 14:50
n-Octacosane	7.57	Baseline Event	birdsellm	03/12/11 14:50

Lab Sample ID: IC 280-57207/7 Client Sample ID: _____Date Analyzed: 03/11/11 16:10 Lab File ID: 009B0901.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	3.55	Baseline Event	birdsellm	03/12/11 14:56
C10-C24	3.78	Baseline Event	birdsellm	03/12/11 14:56
C10-C25	3.89	Baseline Event	birdsellm	03/12/11 14:56
Diesel Range Organics [C10-C28]	4.19	Baseline Event	birdsellm	03/12/11 14:56
C10-C32	4.55	Baseline Event	birdsellm	03/12/11 14:56
C10-C36	4.88	Baseline Event	birdsellm	03/12/11 14:56
o-Terphenyl	5.29	Baseline Event	birdsellm	03/12/11 14:56
n-Octacosane	7.47	Baseline Event	birdsellm	03/12/11 14:50

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-13610-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 57207Lab Sample ID: IC 280-57207/8 Client Sample ID: _____Date Analyzed: 03/11/11 16:38 Lab File ID: 010B1001.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	3.55	Baseline Event	birdsellm	03/12/11 00:00
C10-C24	3.78	Baseline Event	birdsellm	03/12/11 00:00
C10-C25	3.89	Baseline Event	birdsellm	03/12/11 00:00
Diesel Range Organics [C10-C28]	4.19	Baseline Event	birdsellm	03/12/11 00:00
C8-C34	4.43	Baseline Event	birdsellm	03/12/11 00:00
C10-C32	4.55	Baseline Event	birdsellm	03/12/11 00:00
C10-C36	4.88	Baseline Event	birdsellm	03/12/11 00:00
o-Terphenyl	5.30	Baseline Event	birdsellm	03/12/11 14:58
n-Octacosane	7.64	Baseline Event	birdsellm	03/12/11 14:57

Lab Sample ID: ICV 280-57207/9 Client Sample ID: _____Date Analyzed: 03/11/11 17:06 Lab File ID: 011B1101.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.29	Split Peak	birdsellm	03/12/11 15:00

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-13610-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 59410Lab Sample ID: CCVRT 280-59410/2 Client Sample ID: _____Date Analyzed: 03/23/11 09:44 Lab File ID: 004B0401.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C24	3.78	Baseline Event	birdsellm	03/23/11 14:42
Diesel Range Organics [C10-C28]	4.17	Baseline Event	birdsellm	03/23/11 14:42
C10-C36	4.85	Baseline Event	birdsellm	03/23/11 14:42
o-Terphenyl	5.28	Baseline Event	birdsellm	03/23/11 14:42
n-Octacosane	7.54	Baseline Event	birdsellm	03/23/11 14:42
Over C24-C36	7.86	Baseline Event	birdsellm	03/23/11 14:42

Lab Sample ID: CCV 280-59410/3 Client Sample ID: _____Date Analyzed: 03/23/11 12:07 Lab File ID: 009B0901.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C24	3.78	Baseline Event	birdsellm	03/23/11 14:44
Diesel Range Organics [C10-C28]	4.17	Baseline Event	birdsellm	03/23/11 14:44
C10-C36	4.85	Baseline Event	birdsellm	03/23/11 14:44
o-Terphenyl	5.28	Baseline Event	birdsellm	03/23/11 14:44
n-Octacosane	7.54	Baseline Event	birdsellm	03/23/11 14:43
Over C24-C36	7.86	Baseline Event	birdsellm	03/23/11 14:44

Lab Sample ID: LCS 280-58157/2-A Client Sample ID: _____Date Analyzed: 03/23/11 14:00 Lab File ID: 013B1301.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C36	4.85	Baseline Event	birdsellm	03/25/11 15:22
o-Terphenyl	5.28	Baseline Event	birdsellm	03/25/11 15:22

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-13610-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 59410Lab Sample ID: 280-13606-B-3-A MS Client Sample ID: _____Date Analyzed: 03/23/11 16:21 Lab File ID: 018B1801.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C36	4.85	Baseline Event	birdsellm	03/25/11 15:24
o-Terphenyl	5.28	Baseline Event	birdsellm	03/25/11 15:24

Lab Sample ID: 280-13606-D-3-A MSD Client Sample ID: _____Date Analyzed: 03/23/11 16:49 Lab File ID: 019B1901.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C36	4.85	Baseline Event	birdsellm	03/25/11 15:25
o-Terphenyl	5.28	Baseline Event	birdsellm	03/25/11 15:25

Lab Sample ID: CCV 280-59410/11 Client Sample ID: _____Date Analyzed: 03/23/11 17:16 Lab File ID: 020B2001.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C28]	4.17	Baseline Event	birdsellm	03/24/11 14:16
C10-C36	4.85	Baseline Event	birdsellm	03/24/11 14:16
o-Terphenyl	5.28	Baseline Event	birdsellm	03/24/11 14:16
n-Octacosane	7.55	Baseline Event	birdsellm	03/24/11 14:16

Methods 8260/624/8270/625

No Manual Integrations Performed

A handwritten mark, possibly a signature or initials, consisting of a stylized 'L' followed by a checkmark-like stroke.

SAMPLE SUMMARY

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-13610-1	BURKHART WW	Water	03/16/2011 1045	03/17/2011 0923
280-13610-2TB	TRIP BLANK	Water	03/16/2011 0000	03/17/2011 0923

EXECUTIVE SUMMARY - Detections

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
280-13610-1	BURKHART WW				
Sodium Adsorption Ratio		1.8	0.40	No Unit	20B
Barium		33	10	ug/L	6010B
Calcium		68000	200	ug/L	6010B
Iron		810	100	ug/L	6010B
Magnesium		20000	200	ug/L	6010B
Manganese		52	10	ug/L	6010B
Potassium		6700	3000	ug/L	6010B
Sodium		68000	1000	ug/L	6010B
Chloride		11	3.0	mg/L	300.0
Fluoride		0.81	0.50	mg/L	300.0
Sulfate		140	25	mg/L	300.0
Total Anions		8.5		meq/L	SM 1030F
Total Cations		8.2		meq/L	SM 1030F
Percent Difference		-1.5		%	SM 1030F
Anion/Cation Balance		-1.5		%	SM 1030F
Total Alkalinity		260	5.0	mg/L	SM 2320B
Bicarbonate Alkalinity as CaCO3		260	5.0	mg/L	SM 2320B
Specific Conductance		780	2.0	umhos/cm	SM 2510B
Total Dissolved Solids		450	10	mg/L	SM 2540C
pH		7.11	HF 0.100	SU	SM 4500 H+ B

METHOD SUMMARY

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Purge and Trap	TAL DEN		SW846 5030B
Gasoline Range Organics - (GC)	TAL DEN	SW846 8015B	
Purge and Trap	TAL DEN		SW846 5030B
Dissolved Gases in Water	TAL DEN	RSK RSK-175	
Diesel Range Organics (DRO) (GC)	TAL DEN	SW846 8015B	
Liquid-Liquid Extraction (Separatory Funnel)	TAL DEN		SW846 3510C
Sodium Adsorption Ratio	TAL DEN	USDA 20B	
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Total Metals	TAL DEN		SW846 3010A
Metals (ICP/MS)	TAL DEN	SW846 6020	
Preparation, Total Metals	TAL DEN		SW846 3020A
Anions, Ion Chromatography	TAL DEN	MCAWW 300.0	
Nitrogen, Nitrate-Nitrite	TAL DEN	MCAWW 353.2	
Cation Anion Balance	TAL DEN	SM SM 1030F	
Alkalinity	TAL DEN	SM SM 2320B	
Conductivity, Specific Conductance	TAL DEN	SM SM 2510B	
Solids, Total Dissolved (TDS)	TAL DEN	SM SM 2540C	
pH	TAL DEN	SM SM 4500 H+ B	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

USDA = "USDA Agriculture Handbook 60, section 20B".

METHOD / ANALYST SUMMARY

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Method	Analyst	Analyst ID
SW846 8260B	Dobransky, Michael E	MD
SW846 8015B	Gaskill, Daniel B	DBG
RSK RSK-175	Smith, Matthew P	MPS
SW846 8015B	Birdsell, Matthew R	MRB
USDA 20B	Harre, John K	JKH
SW846 6010B	Trudell, Lynn-Anne	LT
SW846 6020	Diaz, Luis R	LRD
MCAWW 300.0	Phan, Thu L	TLP
MCAWW 353.2	Stosak, Lara E	LES
SM SM 1030F	Sullivan, Roxanne	RS
SM SM 2320B	Scott, Samantha J	SJS
SM SM 2510B	Plumb, Paul M	PMP
SM SM 2540C	Domnick, Brandon J	BJD
SM SM 4500 H+ B	Taylor, Juli M	JMT

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Client Sample ID: BURKHART WW

Lab Sample ID: 280-13610-1

Date Sampled: 03/16/2011 1045

Client Matrix: Water

Date Received: 03/17/2011 0923

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-59559	Instrument ID:	MSV_G2
Preparation:	5030B		Lab File ID:	G2_2464.D
Dilution:	1.0		Initial Weight/Volume:	20 mL
Date Analyzed:	03/26/2011 1729		Final Weight/Volume:	20 mL
Date Prepared:	03/26/2011 1729			

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		1.0
Ethylbenzene	ND		1.0
Toluene	ND		1.0
m-Xylene & p-Xylene	ND		2.0
o-Xylene	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 127
Toluene-d8 (Surr)	98		80 - 125
4-Bromofluorobenzene (Surr)	99		78 - 120
Dibromofluoromethane (Surr)	94		77 - 120

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 280-13610-2TB

Date Sampled: 03/16/2011 0000

Client Matrix: Water

Date Received: 03/17/2011 0923

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-59559	Instrument ID:	MSV_G2
Preparation:	5030B		Lab File ID:	G2_2465.D
Dilution:	1.0		Initial Weight/Volume:	20 mL
Date Analyzed:	03/26/2011 1748		Final Weight/Volume:	20 mL
Date Prepared:	03/26/2011 1748			

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		1.0
Ethylbenzene	ND		1.0
Toluene	ND		1.0
m-Xylene & p-Xylene	ND		2.0
o-Xylene	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 127
Toluene-d8 (Surr)	100		80 - 125
4-Bromofluorobenzene (Surr)	101		78 - 120
Dibromofluoromethane (Surr)	96		77 - 120

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Client Sample ID: BURKHART WW

Lab Sample ID: 280-13610-1

Date Sampled: 03/16/2011 1045

Client Matrix: Water

Date Received: 03/17/2011 0923

8015B Gasoline Range Organics - (GC)

Method:	8015B	Analysis Batch: 280-59592	Instrument ID:	GCV_L
Preparation:	5030B		Initial Weight/Volume:	5 mL
Dilution:	1.0		Final Weight/Volume:	5 mL
Date Analyzed:	03/25/2011 1840		Injection Volume:	5 mL
Date Prepared:	03/25/2011 1840		Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Gasoline Range Organics (GRO)-C6-C10	ND		25

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	93		82 - 110

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Client Sample ID: BURKHART WW

Lab Sample ID: 280-13610-1

Date Sampled: 03/16/2011 1045

Client Matrix: Water

Date Received: 03/17/2011 0923

RSK-175 Dissolved Gases in Water

Method: RSK-175

Analysis Batch: 280-59408

Instrument ID: GCV_J

Preparation: N/A

Initial Weight/Volume: 18 mL

Dilution: 1.0

Final Weight/Volume: 18 mL

Date Analyzed: 03/25/2011 1121

Injection Volume:

Date Prepared:

Result Type: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Methane	ND		5.0

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Client Sample ID: **BURKHART WW**

Lab Sample ID: 280-13610-1

Date Sampled: 03/16/2011 1045

Client Matrix: Water

Date Received: 03/17/2011 0923

RSK-175 Dissolved Gases in Water

Method:	RSK-175	Analysis Batch: 280-59408	Instrument ID:	GCV_J
Preparation:	N/A		Initial Weight/Volume:	18 mL
Dilution:	1.0		Final Weight/Volume:	18 mL
Date Analyzed:	03/25/2011 1122		Injection Volume:	1 mL
Date Prepared:			Result Type:	SECONDARY

Analyte	Result (ug/L)	Qualifier	RL
Methane	ND		5.0

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Client Sample ID: BURKHART WW

Lab Sample ID: 280-13610-1

Date Sampled: 03/16/2011 1045

Client Matrix: Water

Date Received: 03/17/2011 0923

8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 280-59410	Instrument ID:	GCS_U
Preparation:	3510C	Prep Batch: 280-58157	Initial Weight/Volume:	1045.1 mL
Dilution:	1.0		Final Weight/Volume:	1000 uL
Date Analyzed:	03/23/2011 1428		Injection Volume:	1 uL
Date Prepared:	03/17/2011 1915		Result Type:	PRIMARY

Analyte	Result (mg/L)	Qualifier	RL
C10-C36	ND		0.48

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	79		50 - 115

Analytical Data

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-13610-1

Client Sample ID: BURKHART WW

Lab Sample ID: 280-13610-1

Date Sampled: 03/16/2011 1045

Client Matrix: Water

Date Received: 03/17/2011 0923

20B Sodium Adsorption Ratio

Method:	20B	Analysis Batch: 280-59087	Instrument ID:	MT_025
Preparation:	N/A		Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	
Date Analyzed:	03/24/2011 0841		Final Weight/Volume:	1.0 mL
Date Prepared:				

Analyte	Result (No Unit)	Qualifier	RL
Sodium Adsorption Ratio	1.8		0.40

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 280-58699	Instrument ID:	MT_025
Preparation:	3010A	Prep Batch: 280-58158	Lab File ID:	25D032111.asc
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	03/21/2011 2040		Final Weight/Volume:	50 mL
Date Prepared:	03/18/2011 1700			

Analyte	Result (ug/L)	Qualifier	RL
Arsenic	ND		15
Barium	33		10
Cadmium	ND		5.0
Calcium	68000		200
Chromium	ND		10
Iron	810		100
Lead	ND		9.0
Magnesium	20000		200
Manganese	52		10
Potassium	6700		3000
Selenium	ND		15
Silver	ND		10
Sodium	68000		1000

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 280-59261	Instrument ID:	MT_024
Preparation:	3020A	Prep Batch: 280-58159	Lab File ID:	262AREF.D
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	03/24/2011 0632		Final Weight/Volume:	50 mL
Date Prepared:	03/22/2011 0800			

Analyte	Result (ug/L)	Qualifier	RL
Uranium	ND	^	1.0

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

General Chemistry**Client Sample ID: BURKHART WW**

Lab Sample ID: 280-13610-1

Date Sampled: 03/16/2011 1045

Client Matrix: Water

Date Received: 03/17/2011 0923

Analyte	Result	Qual	Units	RL	Dil	Method
Bromide	ND		mg/L	0.20	1.0	300.0
	Analysis Batch: 280-58764	Date Analyzed: 03/21/2011 1955				
Chloride	11		mg/L	3.0	1.0	300.0
	Analysis Batch: 280-58764	Date Analyzed: 03/21/2011 1955				
Fluoride	0.81		mg/L	0.50	1.0	300.0
	Analysis Batch: 280-58764	Date Analyzed: 03/21/2011 1955				
Sulfate	140		mg/L	25	5.0	300.0
	Analysis Batch: 280-58764	Date Analyzed: 03/21/2011 2217				
Nitrate Nitrite as N	ND		mg/L	0.10	1.0	353.2
	Analysis Batch: 280-59044	Date Analyzed: 03/23/2011 1220				
Total Alkalinity	260		mg/L	5.0	1.0	SM 2320B
	Analysis Batch: 280-58401	Date Analyzed: 03/18/2011 2041				
Bicarbonate Alkalinity as CaCO3	260		mg/L	5.0	1.0	SM 2320B
	Analysis Batch: 280-58401	Date Analyzed: 03/18/2011 2041				
Carbonate Alkalinity as CaCO3	ND		mg/L	5.0	1.0	SM 2320B
	Analysis Batch: 280-58401	Date Analyzed: 03/18/2011 2041				
Hydroxide Alkalinity	ND		mg/L	5.0	1.0	SM 2320B
	Analysis Batch: 280-58401	Date Analyzed: 03/18/2011 2041				
Total Dissolved Solids	450		mg/L	10	1.0	SM 2540C
	Analysis Batch: 280-58660	Date Analyzed: 03/22/2011 0749				
Analyte	Result	Qual	Units		Dil	Method
Total Anions	8.5		meq/L		1.0	SM 1030F
	Analysis Batch: 280-59644	Date Analyzed: 03/28/2011 1118				
Total Cations	8.2		meq/L		1.0	SM 1030F
	Analysis Batch: 280-59644	Date Analyzed: 03/28/2011 1118				
Percent Difference	-1.5		%		1.0	SM 1030F
	Analysis Batch: 280-59644	Date Analyzed: 03/28/2011 1118				
Anion/Cation Balance	-1.5		%		1.0	SM 1030F
	Analysis Batch: 280-59644	Date Analyzed: 03/28/2011 1118				
Analyte	Result	Qual	Units	RL	Dil	Method
Specific Conductance	780		umhos/cm	2.0	1.0	SM 2510B
	Analysis Batch: 280-58765	Date Analyzed: 03/22/2011 1509				
pH	7.11	HF	SU	0.100	1.0	SM 4500 H+ B
	Analysis Batch: 280-58139	Date Analyzed: 03/17/2011 1423				

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
280-13610-1	BURKHART WW	94	91	98	99
280-13610-2	TRIP BLANK	96	93	100	101
MB 280-59559/6		96	92	105	100
LCS 280-59559/4		99	89	108	103
LCSD 280-59559/5		94	83	98	96
280-13539-G-6 MS		95	86	100	98
280-13628-E-2 MS		95	90	95	99
280-13539-G-6 MSD		97	88	102	100
280-13628-E-2 MSD		105	99	105	109

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	77-120
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
TOL = Toluene-d8 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	78-120

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Surrogate Recovery Report

8015B Gasoline Range Organics - (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	TFT1 %Rec
280-13610-1	BURKHART WW	93
MB 280-59592/5		91
LCS 280-59592/3		104
LCSD 280-59592/4		101
280-13778-Z-1 MS		103
280-13778-Z-1 MSD		102

Surrogate	Acceptance Limits
TFT = a,a,a-Trifluorotoluene	82-110

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Surrogate Recovery Report

8015B Diesel Range Organics (DRO) (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	OTPH1 %Rec
280-13610-1	BURKHART WW	79
MB 280-58157/1-A		86
LCS 280-58157/2-A		72
280-13606-B-3-A MS		88
280-13606-D-3-A MSD		75

Surrogate	Acceptance Limits
OTPH = o-Terphenyl	50-115

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Method Blank - Batch: 280-59559

Lab Sample ID: MB 280-59559/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2011 0906
Date Prepared: 03/26/2011 0906

Analysis Batch: 280-59559
Prep Batch: N/A
Units: ug/L

Method: 8260B Preparation: 5030B

Instrument ID: MSV_G2
Lab File ID: G2_2438.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result	Qual	RL
Benzene	ND		1.0
Ethylbenzene	ND		1.0
Toluene	ND		1.0
m-Xylene & p-Xylene	ND		2.0
o-Xylene	ND		1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92	70 - 127
Toluene-d8 (Surr)	105	80 - 125
4-Bromofluorobenzene (Surr)	100	78 - 120
Dibromofluoromethane (Surr)	96	77 - 120

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-13610-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-59559**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 280-59559/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2011 0828
Date Prepared: 03/26/2011 0828

Analysis Batch: 280-59559
Prep Batch: N/A
Units: ug/L

Instrument ID: MSV_G2
Lab File ID: G2_2436.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

LCSD Lab Sample ID: LCSD 280-59559/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2011 0847
Date Prepared: 03/26/2011 0847

Analysis Batch: 280-59559
Prep Batch: N/A
Units: ug/L

Instrument ID: MSV_G2
Lab File ID: G2_2437.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	101	96	77 - 120	4	20		
Ethylbenzene	104	98	78 - 120	5	26		
Toluene	103	98	73 - 120	4	20		
m-Xylene & p-Xylene	103	98	78 - 120	5	20		
o-Xylene	100	95	77 - 120	5	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	89	83	70 - 127
Toluene-d8 (Surr)	108	98	80 - 125
4-Bromofluorobenzene (Surr)	103	96	78 - 120
Dibromofluoromethane (Surr)	99	94	77 - 120

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-59559**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 280-59559/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2011 0828
Date Prepared: 03/26/2011 0828

Units: ug/L

LCSD Lab Sample ID: LCSD 280-59559/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2011 0847
Date Prepared: 03/26/2011 0847

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Benzene	5.00	5.00	5.03	4.82
Ethylbenzene	5.00	5.00	5.18	4.92
Toluene	5.00	5.00	5.13	4.92
m-Xylene & p-Xylene	10.0	10.0	10.3	9.79
o-Xylene	5.00	5.00	5.00	4.77

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-13610-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-59559

Method: 8260B

Preparation: 5030B

MS Lab Sample ID: 280-13539-G-6 MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2011 1220
Date Prepared: 03/26/2011 1220

Analysis Batch: 280-59559
Prep Batch: N/A

Instrument ID: MSV_G2
Lab File ID: G2_2448.D
Initial Weight/Volume: 1 mL
Final Weight/Volume: 20 mL

MSD Lab Sample ID: 280-13539-G-6 MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2011 1239
Date Prepared: 03/26/2011 1239

Analysis Batch: 280-59559
Prep Batch: N/A

Instrument ID: MSV_G2
Lab File ID: G2_2449.D
Initial Weight/Volume: 1 mL
Final Weight/Volume: 20 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	95	88	77 - 120	7	20		
Ethylbenzene	95	86	78 - 120	10	26		
Toluene	95	88	73 - 120	8	20		
m-Xylene & p-Xylene	96	87	78 - 120	10	20		
o-Xylene	93	88	77 - 120	7	20		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
1,2-Dichloroethane-d4 (Surr)	86		88	70 - 127			
Toluene-d8 (Surr)	100		102	80 - 125			
4-Bromofluorobenzene (Surr)	98		100	78 - 120			
Dibromofluoromethane (Surr)	95		97	77 - 120			

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-59559

Method: 8260B

Preparation: 5030B

MS Lab Sample ID: 280-13628-E-2 MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2011 1258
Date Prepared: 03/26/2011 1258

Analysis Batch: 280-59559
Prep Batch: N/A

Instrument ID: MSV_G2
Lab File ID: G2_2450.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

MSD Lab Sample ID: 280-13628-E-2 MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2011 1318
Date Prepared: 03/26/2011 1318

Analysis Batch: 280-59559
Prep Batch: N/A

Instrument ID: MSV_G2
Lab File ID: G2_2451.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	90	99	77 - 120	10	20		
Ethylbenzene	87	95	78 - 120	9	26		
Toluene	90	99	73 - 120	9	20		
m-Xylene & p-Xylene	87	95	78 - 120	8	20		
o-Xylene	87	93	77 - 120	7	20		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
1,2-Dichloroethane-d4 (Surr)	90		99	70 - 127			
Toluene-d8 (Surr)	95		105	80 - 125			
4-Bromofluorobenzene (Surr)	99		109	78 - 120			
Dibromofluoromethane (Surr)	95		105	77 - 120			

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-13610-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-59559

Method: 8260B

Preparation: 5030B

MS Lab Sample ID: 280-13539-G-6 MS Units: ug/L
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2011 1220
Date Prepared: 03/26/2011 1220

MSD Lab Sample ID: 280-13539-G-6 MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2011 1239
Date Prepared: 03/26/2011 1239

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Benzene	ND	100	100	94.5	88.1
Ethylbenzene	ND	100	100	95.1	86.2
Toluene	ND	100	100	95.2	88.1
m-Xylene & p-Xylene	ND	200	200	192	173
o-Xylene	ND	100	100	93.5	87.5

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-59559

Method: 8260B

Preparation: 5030B

MS Lab Sample ID: 280-13628-E-2 MS Units: ug/L
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2011 1258
Date Prepared: 03/26/2011 1258

MSD Lab Sample ID: 280-13628-E-2 MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2011 1318
Date Prepared: 03/26/2011 1318

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Benzene	ND	5.00	5.00	4.48	4.94
Ethylbenzene	ND	5.00	5.00	4.34	4.74
Toluene	ND	5.00	5.00	4.52	4.94
m-Xylene & p-Xylene	ND	10.0	10.0	8.73	9.47
o-Xylene	ND	5.00	5.00	4.33	4.64

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Method Blank - Batch: 280-59592

Lab Sample ID: MB 280-59592/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2011 1325
Date Prepared: 03/25/2011 1325

Analysis Batch: 280-59592
Prep Batch: N/A
Units: ug/L

Method: 8015B Preparation: 5030B

Instrument ID: GCV_L
Lab File ID: 105F0501.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume: 5 mL
Column ID: PRIMARY

Analyte	Result	Qual	RL
Gasoline Range Organics (GRO)-C6-C10	ND		25

Surrogate	% Rec	Acceptance Limits
a,a,a-Trifluorotoluene	91	82 - 110

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-59592

Method: 8015B Preparation: 5030B

LCS Lab Sample ID: LCS 280-59592/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2011 1209
Date Prepared: 03/25/2011 1209

Analysis Batch: 280-59592
Prep Batch: N/A
Units: ug/L

Instrument ID: GCV_L
Lab File ID: 103F0301.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume: 5 mL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 280-59592/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2011 1247
Date Prepared: 03/25/2011 1247

Analysis Batch: 280-59592
Prep Batch: N/A
Units: ug/L

Instrument ID: GCV_L
Lab File ID: 104F0401.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume: 5 mL
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C6-C10	112	107	79 - 149	4	27		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
a,a,a-Trifluorotoluene	104		101		82 - 110		

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-13610-1

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-59592

Method: 8015B
Preparation: 5030B

LCS Lab Sample ID: LCS 280-59592/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2011 1209
Date Prepared: 03/25/2011 1209

LCSD Lab Sample ID: LCSD 280-59592/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2011 1247
Date Prepared: 03/25/2011 1247

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Gasoline Range Organics (GRO)-C6-C10	101	101	113	108

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-59592

Method: 8015B
Preparation: 5030B

MS Lab Sample ID: 280-13778-Z-1 MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2011 1453
Date Prepared: 03/25/2011 1453

Analysis Batch: 280-59592
Prep Batch: N/A

Instrument ID: GCV_L
Lab File ID: 107F0701.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume: 5 mL
Column ID: PRIMARY

MSD Lab Sample ID: 280-13778-Z-1 MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2011 1531
Date Prepared: 03/25/2011 1531

Analysis Batch: 280-59592
Prep Batch: N/A

Instrument ID: GCV_L
Lab File ID: 108F0801.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume: 5 mL
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Gasoline Range Organics (GRO)-C6-C10	106	111	79 - 149	5	27		
Surrogate		MS % Rec	MSD % Rec			Acceptance Limits	
a,a,a-Trifluorotoluene		103	102			82 - 110	

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-59592

Method: 8015B

Preparation: 5030B

MS Lab Sample ID: 280-13778-Z-1 MS

Units: ug/L

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 03/25/2011 1453

Date Prepared: 03/25/2011 1453

MSD Lab Sample ID: 280-13778-Z-1 MSD

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 03/25/2011 1531

Date Prepared: 03/25/2011 1531

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Gasoline Range Organics (GRO)-C6-C10	ND	101	101	107	112

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Method Blank - Batch: 280-59408

Lab Sample ID: MB 280-59408/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2011 1029
Date Prepared: N/A

Analysis Batch: 280-59408
Prep Batch: N/A
Units: ug/L

Method: RSK-175 Preparation: N/A

Instrument ID: GCV_J
Lab File ID: 006F0601.D
Initial Weight/Volume: 18 mL
Final Weight/Volume: 18 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Methane	ND		5.0

Method Blank - Batch: 280-59408

Lab Sample ID: MB 280-59408/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2011 1029
Date Prepared: N/A

Analysis Batch: 280-59408
Prep Batch: N/A
Units: ug/L

Method: RSK-175 Preparation: N/A

Instrument ID: GCV_J
Lab File ID: 006F0601.D
Initial Weight/Volume: 18 mL
Final Weight/Volume: 18 mL
Injection Volume:
Column ID: SECONDARY

Analyte	Result	Qual	RL
Methane	ND		5.0

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-59408**

**Method: RSK-175
Preparation: N/A**

LCS Lab Sample ID: LCS 280-59408/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2011 1020
Date Prepared: N/A

Analysis Batch: 280-59408
Prep Batch: N/A
Units: ug/L

Instrument ID: GCV_J
Lab File ID: 004F0401.D
Initial Weight/Volume: 18 mL
Final Weight/Volume: 18 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 280-59408/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2011 1025
Date Prepared: N/A

Analysis Batch: 280-59408
Prep Batch: N/A
Units: ug/L

Instrument ID: GCV_J
Lab File ID: 005F0501.D
Initial Weight/Volume: 18 mL
Final Weight/Volume: 18 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methane	98	100	75 - 125	2	20		

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-59408**

**Method: RSK-175
Preparation: N/A**

LCS Lab Sample ID: LCS 280-59408/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2011 1020
Date Prepared: N/A

Analysis Batch: 280-59408
Prep Batch: N/A
Units: ug/L

Instrument ID: GCV_J
Lab File ID: 004F0401.D
Initial Weight/Volume: 18 mL
Final Weight/Volume: 18 mL
Injection Volume:
Column ID: SECONDARY

LCSD Lab Sample ID: LCSD 280-59408/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2011 1025
Date Prepared: N/A

Analysis Batch: 280-59408
Prep Batch: N/A
Units: ug/L

Instrument ID: GCV_J
Lab File ID: 005F0501.D
Initial Weight/Volume: 18 mL
Final Weight/Volume: 18 mL
Injection Volume:
Column ID: SECONDARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methane	104	107	75 - 125	3	20		

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-59408**

**Method: RSK-175
Preparation: N/A**

LCS Lab Sample ID: LCS 280-59408/2 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2011 1020
Date Prepared: N/A

LCSD Lab Sample ID: LCSD 280-59408/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2011 1025
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Methane	73.2	73.2	71.7	73.5

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-59408**

**Method: RSK-175
Preparation: N/A**

LCS Lab Sample ID: LCS 280-59408/2 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2011 1020
Date Prepared: N/A

LCSD Lab Sample ID: LCSD 280-59408/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2011 1025
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Methane	73.2	73.2	76.3	78.3

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-59408

Method: RSK-175

Preparation: N/A

MS Lab Sample ID: 500-31792-A-7 MS
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 03/25/2011 1145
 Date Prepared: N/A

Analysis Batch: 280-59408
 Prep Batch: N/A

Instrument ID: GCV_J
 Lab File ID: 016F1601.D
 Initial Weight/Volume: 18 mL
 Final Weight/Volume: 18 mL
 Injection Volume:
 Column ID: PRIMARY

MSD Lab Sample ID: 500-31792-C-7 MSD
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 03/25/2011 1149
 Date Prepared: N/A

Analysis Batch: 280-59408
 Prep Batch: N/A

Instrument ID: GCV_J
 Lab File ID: 017F1701.D
 Initial Weight/Volume: 18 mL
 Final Weight/Volume: 18 mL
 Injection Volume:
 Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Methane	103	113	52 - 145	10	20		

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-59408

Method: RSK-175

Preparation: N/A

MS Lab Sample ID: 500-31792-A-7 MS
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 03/25/2011 1145
 Date Prepared: N/A

Analysis Batch: 280-59408
 Prep Batch: N/A

Instrument ID: GCV_J
 Lab File ID: 016F1601.D
 Initial Weight/Volume: 18 mL
 Final Weight/Volume: 18 mL
 Injection Volume:
 Column ID: SECONDARY

MSD Lab Sample ID: 500-31792-C-7 MSD
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 03/25/2011 1149
 Date Prepared: N/A

Analysis Batch: 280-59408
 Prep Batch: N/A

Instrument ID: GCV_J
 Lab File ID: 017F1701.D
 Initial Weight/Volume: 18 mL
 Final Weight/Volume: 18 mL
 Injection Volume:
 Column ID: SECONDARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Methane	111	121	52 - 145	8	20		

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-59408

Method: RSK-175

Preparation: N/A

MS Lab Sample ID: 500-31792-A-7 MS Units: ug/L
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2011 1145
Date Prepared: N/A

MSD Lab Sample ID: 500-31792-C-7 MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2011 1149
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Methane	ND	73.2	73.2	75.5	83.2

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-59408

Method: RSK-175

Preparation: N/A

MS Lab Sample ID: 500-31792-A-7 MS Units: ug/L
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2011 1145
Date Prepared: N/A

MSD Lab Sample ID: 500-31792-C-7 MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2011 1149
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Methane	ND	73.2	73.2	81.5	88.3

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Method Blank - Batch: 280-58157

Lab Sample ID: MB 280-58157/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2011 1331
Date Prepared: 03/17/2011 1915

Analysis Batch: 280-59410
Prep Batch: 280-58157
Units: mg/L

Method: 8015B Preparation: 3510C

Instrument ID: GCS_U
Lab File ID: 012B1201.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	RL
C10-C36	ND		0.50

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	86	50 - 115

Lab Control Sample - Batch: 280-58157

Lab Sample ID: LCS 280-58157/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2011 1400
Date Prepared: 03/17/2011 1915

Analysis Batch: 280-59410
Prep Batch: 280-58157
Units: mg/L

Method: 8015B Preparation: 3510C

Instrument ID: GCS_U
Lab File ID: 013B1301.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
C10-C36	2.00	1.58	79	57 - 115	

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	72	50 - 115

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-58157

Method: 8015B

Preparation: 3510C

MS Lab Sample ID: 280-13606-B-3-A MS
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 03/23/2011 1621
 Date Prepared: 03/17/2011 1915

Analysis Batch: 280-59410
 Prep Batch: 280-58157

Instrument ID: GCS_U
 Lab File ID: 018B1801.D
 Initial Weight/Volume: 939.7 mL
 Final Weight/Volume: 1000 uL
 Injection Volume: 1 uL
 Column ID: PRIMARY

MSD Lab Sample ID: 280-13606-D-3-A MSD
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 03/23/2011 1649
 Date Prepared: 03/17/2011 1915

Analysis Batch: 280-59410
 Prep Batch: 280-58157

Instrument ID: GCS_U
 Lab File ID: 019B1901.D
 Initial Weight/Volume: 903.5 mL
 Final Weight/Volume: 1000 uL
 Injection Volume: 1 uL
 Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
C10-C36	71	63	50 - 115	7	31		
Surrogate		MS % Rec	MSD % Rec			Acceptance Limits	
o-Terphenyl		88	75			50 - 115	

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-58157

Method: 8015B

Preparation: 3510C

MS Lab Sample ID: 280-13606-B-3-A MS
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 03/23/2011 1621
 Date Prepared: 03/17/2011 1915

Units: mg/L

MSD Lab Sample ID: 280-13606-D-3-A MSD
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 03/23/2011 1649
 Date Prepared: 03/17/2011 1915

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
C10-C36	ND	2.13	2.21	1.67	1.56

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Method Blank - Batch: 280-59087

Lab Sample ID: MB 280-59087/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2011 0841
Date Prepared: N/A

Analysis Batch: 280-59087
Prep Batch: N/A
Units: No Unit

Method: 20B Preparation: N/A

Instrument ID: MT_025
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL
Sodium Adsorption Ratio	ND		0.40

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-13610-1

Method Blank - Batch: 280-58158

Lab Sample ID: MB 280-58158/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2011 1948
Date Prepared: 03/18/2011 1700

Analysis Batch: 280-58699
Prep Batch: 280-58158
Units: ug/L

Method: 6010B Preparation: 3010A

Instrument ID: MT_025
Lab File ID: 25D032111.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Arsenic	ND		15
Barium	ND		10
Cadmium	ND		5.0
Calcium	ND		200
Chromium	ND		10
Iron	ND		100
Lead	ND		9.0
Magnesium	ND		200
Manganese	ND		10
Potassium	ND		3000
Selenium	ND		15
Silver	ND		10
Sodium	ND	^	1000

Lab Control Sample - Batch: 280-58158

Lab Sample ID: LCS 280-58158/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2011 1951
Date Prepared: 03/18/2011 1700

Analysis Batch: 280-58699
Prep Batch: 280-58158
Units: ug/L

Method: 6010B Preparation: 3010A

Instrument ID: MT_025
Lab File ID: 25D032111.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	1000	973	97	88 - 110	
Barium	2000	2000	100	90 - 112	
Cadmium	100	101	101	88 - 111	
Calcium	50000	47400	95	90 - 111	
Chromium	200	200	100	90 - 113	
Iron	1000	956	96	89 - 115	
Lead	500	493	99	89 - 110	
Magnesium	50000	49300	99	90 - 113	
Manganese	500	496	99	90 - 110	
Potassium	50000	49500	99	89 - 114	
Selenium	2000	2040	102	85 - 112	
Silver	50.0	50.4	101	86 - 115	
Sodium	50000	51000	102	90 - 115	

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-58158

Method: 6010B

Preparation: 3010A

MS Lab Sample ID: 280-13610-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2011 2044
Date Prepared: 03/18/2011 1700

Analysis Batch: 280-58699
Prep Batch: 280-58158

Instrument ID: MT_025
Lab File ID: 25D032111.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 280-13610-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2011 2047
Date Prepared: 03/18/2011 1700

Analysis Batch: 280-58699
Prep Batch: 280-58158

Instrument ID: MT_025
Lab File ID: 25D032111.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Arsenic	104	102	84 - 124	2	25		
Barium	105	103	85 - 120	2	25		
Cadmium	106	105	82 - 119	1	25		
Calcium	99	94	48 - 153	2	25		
Chromium	103	101	73 - 135	2	25		
Iron	97	93	52 - 155	2	25		
Lead	100	98	89 - 121	2	25		
Magnesium	101	98	62 - 146	2	25		
Manganese	101	99	79 - 121	2	25		
Potassium	102	100	76 - 132	2	25		
Selenium	107	106	71 - 140	1	25		
Silver	105	102	75 - 141	3	25		
Sodium	105	102	70 - 203	2	40		

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-13610-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-58158

Method: 6010B

Preparation: 3010A

MS Lab Sample ID: 280-13610-1 Units: ug/L
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 03/21/2011 2044
 Date Prepared: 03/18/2011 1700

MSD Lab Sample ID: 280-13610-1
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 03/21/2011 2047
 Date Prepared: 03/18/2011 1700

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Arsenic	ND	1000	1000	1040	1020
Barium	33	2000	2000	2120	2090
Cadmium	ND	100	100	106	105
Calcium	68000	50000	50000	118000	115000
Chromium	ND	200	200	206	203
Iron	810	1000	1000	1780	1740
Lead	ND	500	500	498	490
Magnesium	20000	50000	50000	70800	69100
Manganese	52	500	500	558	546
Potassium	6700	50000	50000	57900	56700
Selenium	ND	2000	2000	2140	2110
Silver	ND	50.0	50.0	52.7	51.0
Sodium	68000	50000	50000	121000	119000

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Serial Dilution - Batch: 280-58158

Method: 6010B

Preparation: 3010A

Lab Sample ID: 280-13610-1
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 03/21/2011 2042
Date Prepared: 03/18/2011 1700

Analysis Batch: 280-58699
Prep Batch: 280-58158
Units: ug/L

Instrument ID: MT_025
Lab File ID: 25D032111.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Arsenic	ND	ND	NC	10	
Barium	33	ND	8.6	10	
Cadmium	ND	ND	NC	10	
Calcium	68000	73300	7.4	10	
Chromium	ND	ND	NC	10	
Iron	810	869	NC	10	
Lead	ND	ND	NC	10	
Magnesium	20000	22500	11	10	V
Manganese	52	56.7	8.7	10	
Potassium	6700	ND	NC	10	
Selenium	ND	ND	NC	10	
Silver	ND	ND	NC	10	
Sodium	68000	76500	12	10	V

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-13610-1

Method Blank - Batch: 280-58159

Lab Sample ID: MB 280-58159/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2011 0626
Date Prepared: 03/22/2011 0800

Analysis Batch: 280-59261
Prep Batch: 280-58159
Units: ug/L

Method: 6020
Preparation: 3020A

Instrument ID: MT_024
Lab File ID: 260_BLK.D
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Uranium	ND	^	1.0

Lab Control Sample - Batch: 280-58159

Lab Sample ID: LCS 280-58159/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2011 0629
Date Prepared: 03/22/2011 0800

Analysis Batch: 280-59261
Prep Batch: 280-58159
Units: ug/L

Method: 6020
Preparation: 3020A

Instrument ID: MT_024
Lab File ID: 261_LCS.D
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Uranium	40.0	42.4	106	85 - 119	^

Post Digestion Spike - Batch: 280-58159

Lab Sample ID: 280-13610-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2011 0637
Date Prepared: 03/22/2011 0800

Analysis Batch: 280-59261
Prep Batch: 280-58159
Units: ug/L

Method: 6020
Preparation: 3020A

Instrument ID: MT_024
Lab File ID: 264PDS.D
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Uranium	ND	200	208	104	75 - 125	^

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-58159

Method: 6020

Preparation: 3020A

MS Lab Sample ID: 280-13610-1
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 03/24/2011 0640
 Date Prepared: 03/22/2011 0800

Analysis Batch: 280-59261
 Prep Batch: 280-58159

Instrument ID: MT_024
 Lab File ID: 265_MS.D
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

MSD Lab Sample ID: 280-13610-1
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 03/24/2011 0643
 Date Prepared: 03/22/2011 0800

Analysis Batch: 280-59261
 Prep Batch: 280-58159

Instrument ID: MT_024
 Lab File ID: 266_MSD.D
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Uranium	109	107	85 - 119	1	20	^	^

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-58159

Method: 6020

Preparation: 3020A

MS Lab Sample ID: 280-13610-1
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 03/24/2011 0640
 Date Prepared: 03/22/2011 0800

Units: ug/L

MSD Lab Sample ID: 280-13610-1
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 03/24/2011 0643
 Date Prepared: 03/22/2011 0800

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Uranium	ND	40.0	40.0	43.8 ^	43.3 ^

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Serial Dilution - Batch: 280-58159

Lab Sample ID: 280-13610-1
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 03/24/2011 0634
Date Prepared: 03/22/2011 0800

Analysis Batch: 280-59261
Prep Batch: 280-58159
Units: ug/L

Method: 6020 Preparation: 3020A

Instrument ID: MT_024
Lab File ID: 263SDIL.D
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Uranium	ND	ND	NC	10	^

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Method Blank - Batch: 280-58764

Method: 300.0

Preparation: N/A

Lab Sample ID: MB 280-58764/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2011 1019
Date Prepared: N/A

Analysis Batch: 280-58764
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_IC7
Lab File ID: 115.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL
Bromide	ND		0.20
Chloride	ND		3.0
Fluoride	ND		0.50
Sulfate	ND		5.0

Method Reporting Limit Check - Batch: 280-58764

Method: 300.0

Preparation: N/A

Lab Sample ID: MRL 280-58764/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2011 0931
Date Prepared: N/A

Analysis Batch: 280-58764
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_IC7
Lab File ID: 112.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Bromide	0.200	ND	94	50 - 150	
Chloride	1.00	ND	98	50 - 150	
Fluoride	0.200	ND	92	50 - 150	
Sulfate	1.00	ND	94	50 - 150	

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-58764**

**Method: 300.0
Preparation: N/A**

LCS Lab Sample ID: LCS 280-58764/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2011 0947
Date Prepared: N/A

Analysis Batch: 280-58764
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_IC7
Lab File ID: 113.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

LCSD Lab Sample ID: LCSD 280-58764/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2011 1003
Date Prepared: N/A

Analysis Batch: 280-58764
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_IC7
Lab File ID: 114.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Bromide	100	96	90 - 110	4	10		
Chloride	97	94	90 - 110	3	10		
Fluoride	96	93	90 - 110	4	10		
Sulfate	95	91	90 - 110	4	10		

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-58764**

**Method: 300.0
Preparation: N/A**

LCS Lab Sample ID: LCS 280-58764/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2011 0947
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 280-58764/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2011 1003
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Bromide	5.00	5.00	5.01	4.81
Chloride	25.0	25.0	24.2	23.4
Fluoride	5.00	5.00	4.80	4.63
Sulfate	25.0	25.0	23.7	22.8

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-13610-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-58764**

**Method: 300.0
Preparation: N/A**

MS Lab Sample ID: 280-13576-A-3 MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2011 1923
Date Prepared: N/A

Analysis Batch: 280-58764
Prep Batch: N/A

Instrument ID: WC_IC7
Lab File ID: 144.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 5 mL

MSD Lab Sample ID: 280-13576-A-3 MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2011 1939
Date Prepared: N/A

Analysis Batch: 280-58764
Prep Batch: N/A

Instrument ID: WC_IC7
Lab File ID: 145.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Bromide	111	112	80 - 120	1	20		
Chloride	106	106	80 - 120	1	20		
Fluoride	98	99	80 - 120	1	20		
Sulfate	105	106	80 - 120	1	20		

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-58764**

**Method: 300.0
Preparation: N/A**

MS Lab Sample ID: 280-13576-A-3 MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2011 1923
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 280-13576-A-3 MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2011 1939
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Bromide	ND	5.00	5.00	5.55	5.59
Chloride	ND	25.0	25.0	28.4	28.6
Fluoride	ND	5.00	5.00	4.89	4.94
Sulfate	ND	25.0	25.0	28.5	28.8

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Duplicate - Batch: 280-58764

Method: 300.0

Preparation: N/A

Lab Sample ID: 280-13576-A-3 DU

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 03/21/2011 1907

Date Prepared: N/A

Analysis Batch: 280-58764

Prep Batch: N/A

Units: mg/L

Instrument ID: WC_IC7

Lab File ID: 143.TXT

Initial Weight/Volume: 1.0 mL

Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Bromide	ND	ND	NC	15	
Chloride	ND	ND	NC	15	
Fluoride	ND	ND	NC	15	
Sulfate	ND	ND	NC	15	

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-13610-1

Method Blank - Batch: 280-59044

Lab Sample ID: MB 280-59044/19
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2011 1155
Date Prepared: N/A

Analysis Batch: 280-59044
Prep Batch: N/A
Units: mg/L

Method: 353.2
Preparation: N/A

Instrument ID: WC_Alph 2
Lab File ID: C:\FLOW_4\0323NXN.RST
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL
Nitrate Nitrite as N	ND		0.10

Method Reporting Limit Check - Batch: 280-59044

Lab Sample ID: MRL 280-59044/17
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2011 1152
Date Prepared: N/A

Analysis Batch: 280-59044
Prep Batch: N/A
Units: mg/L

Method: 353.2
Preparation: N/A

Instrument ID: WC_Alph 2
Lab File ID: C:\FLOW_4\0323NXN.RST
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N	0.100	ND	90	50 - 150	

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-59044

Method: 353.2
Preparation: N/A

LCS Lab Sample ID: LCS 280-59044/20
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2011 1157
Date Prepared: N/A

Analysis Batch: 280-59044
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_Alph 2
Lab File ID: C:\FLOW_4\0323NXN.RST
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

LCSD Lab Sample ID: LCSD 280-59044/21
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2011 1158
Date Prepared: N/A

Analysis Batch: 280-59044
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_Alph 2
Lab File ID: C:\FLOW_4\0323NXN.RST
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Nitrate Nitrite as N	102	101	90 - 110	1	10		

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-59044

Method: 353.2
Preparation: N/A

LCS Lab Sample ID: LCS 280-59044/20 Units: mg/L
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2011 1157
Date Prepared: N/A

LCSD Lab Sample ID: LCSD 280-59044/21
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2011 1158
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Nitrate Nitrite as N	5.00	5.00	5.10	5.03

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-59044

Method: 353.2
Preparation: N/A

MS Lab Sample ID: 280-13021-D-1 MS Analysis Batch: 280-59044
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0
Date Analyzed: 03/23/2011 1201
Date Prepared: N/A

Instrument ID: WC_Alpi 2
Lab File ID: C:\FLOW_4\0323NXN.RST
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

MSD Lab Sample ID: 280-13021-D-1 MSD Analysis Batch: 280-59044
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0
Date Analyzed: 03/23/2011 1203
Date Prepared: N/A

Instrument ID: WC_Alpi 2
Lab File ID: C:\FLOW_4\0323NXN.RST
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Nitrate Nitrite as N	90	89	72 - 113	1	17		

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-59044

Method: 353.2

Preparation: N/A

MS Lab Sample ID: 280-13021-D-1 MS Units: mg/L
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2011 1201
Date Prepared: N/A

MSD Lab Sample ID: 280-13021-D-1 MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2011 1203
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Nitrate Nitrite as N	0.34	4.00	4.00	3.94	3.91

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Method Blank - Batch: 280-59644

Method: SM 1030F
Preparation: N/A

Lab Sample ID: MB 280-59644/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/28/2011 1118
Date Prepared: N/A

Analysis Batch: 280-59644
Prep Batch: N/A
Units: %

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	NONE
Percent Difference	NC		
Anion/Cation Balance	NC		

Method Blank - Batch: 280-59644

Method: SM 1030F
Preparation: N/A

Lab Sample ID: MB 280-59644/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/28/2011 1118
Date Prepared: N/A

Analysis Batch: 280-59644
Prep Batch: N/A
Units: meq/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	NONE
Total Anions	0.000		
Total Cations	0.000		

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-13610-1

Method Blank - Batch: 280-58401

Lab Sample ID: MB 280-58401/33
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/18/2011 1809
Date Prepared: N/A

Analysis Batch: 280-58401
Prep Batch: N/A
Units: mg/L

Method: SM 2320B
Preparation: N/A

Instrument ID: WC_AT2
Lab File ID: 031811.txt
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL
Total Alkalinity	ND		5.0
Bicarbonate Alkalinity as CaCO ₃	ND		5.0
Carbonate Alkalinity as CaCO ₃	ND		5.0
Hydroxide Alkalinity	ND		5.0

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-58401

LCS Lab Sample ID: LCS 280-58401/31
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/18/2011 1752
Date Prepared: N/A

Analysis Batch: 280-58401
Prep Batch: N/A
Units: mg/L

Method: SM 2320B
Preparation: N/A

Instrument ID: WC_AT2
Lab File ID: 031811.txt
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

LCSD Lab Sample ID: LCSD 280-58401/32
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/18/2011 1802
Date Prepared: N/A

Analysis Batch: 280-58401
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_AT2
Lab File ID: 031811.txt
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Total Alkalinity	102	102	90 - 110	0	10		

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-58401

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID: LCS 280-58401/31 Units: mg/L
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/18/2011 1752
Date Prepared: N/A

LCSD Lab Sample ID: LCSD 280-58401/32
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/18/2011 1802
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Alkalinity	200	200	205	205

Duplicate - Batch: 280-58401

Method: SM 2320B
Preparation: N/A

Lab Sample ID: 280-13613-A-6 DU Analysis Batch: 280-58401
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: mg/L
Date Analyzed: 03/18/2011 1839
Date Prepared: N/A

Instrument ID: WC_AT2
Lab File ID: 031811.txt
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Alkalinity	350	354	0.3	10	

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-13610-1

Method Blank - Batch: 280-58765

Lab Sample ID: MB 280-58765/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/22/2011 1509
Date Prepared: N/A

Analysis Batch: 280-58765
Prep Batch: N/A
Units: umhos/cm

Method: SM 2510B
Preparation: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL
Specific Conductance	ND		2.0

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 280-58765

LCS Lab Sample ID: LCS 280-58765/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/22/2011 1509
Date Prepared: N/A

Analysis Batch: 280-58765
Prep Batch: N/A
Units: umhos/cm

Method: SM 2510B
Preparation: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

LCSD Lab Sample ID: LCSD 280-58765/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/22/2011 1509
Date Prepared: N/A

Analysis Batch: 280-58765
Prep Batch: N/A
Units: umhos/cm

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Specific Conductance	103	103	90 - 110	0	10		

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-58765

Method: SM 2510B
Preparation: N/A

LCS Lab Sample ID: LCS 280-58765/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/22/2011 1509
Date Prepared: N/A

Units: umhos/cm

LCSD Lab Sample ID: LCSD 280-58765/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/22/2011 1509
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Specific Conductance	1410	1410	1460	1450

Duplicate - Batch: 280-58765

Method: SM 2510B
Preparation: N/A

Lab Sample ID: 280-13610-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/22/2011 1509
Date Prepared: N/A

Analysis Batch: 280-58765
Prep Batch: N/A
Units: umhos/cm

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Specific Conductance	780	775	1	10	

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Method Blank - Batch: 280-58660

Method: SM 2540C

Preparation: N/A

Lab Sample ID: MB 280-58660/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/22/2011 0749
Date Prepared: N/A

Analysis Batch: 280-58660
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Result	Qual	RL
Total Dissolved Solids	ND		10

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-58660

Method: SM 2540C

Preparation: N/A

LCS Lab Sample ID: LCS 280-58660/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/22/2011 0749
Date Prepared: N/A

Analysis Batch: 280-58660
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

LCSD Lab Sample ID: LCSD 280-58660/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/22/2011 0749
Date Prepared: N/A

Analysis Batch: 280-58660
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Total Dissolved Solids	93	93	86 - 110	0	20		

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-58660

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID: LCS 280-58660/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/22/2011 0749
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 280-58660/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/22/2011 0749
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids	500	500	466	464

Duplicate - Batch: 280-58660

Method: SM 2540C
Preparation: N/A

Lab Sample ID: 280-13627-B-6 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/22/2011 0749
Date Prepared: N/A

Analysis Batch: 280-58660
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 100 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids	1400	1320	2	10	

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-58139**

**Method: SM 4500 H+ B
Preparation: N/A**

LCS Lab Sample ID: LCS 280-58139/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/17/2011 0952
Date Prepared: N/A

Analysis Batch: 280-58139
Prep Batch: N/A
Units: SU

Instrument ID: WC_pH Probe
Lab File ID: 031711.txt
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

LCSD Lab Sample ID: LCSD 280-58139/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/17/2011 0953
Date Prepared: N/A

Analysis Batch: 280-58139
Prep Batch: N/A
Units: SU

Instrument ID: WC_pH Probe
Lab File ID: 031711.txt
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
pH	101	101	99 - 101	0	5		

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-58139**

**Method: SM 4500 H+ B
Preparation: N/A**

LCS Lab Sample ID: LCS 280-58139/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/17/2011 0952
Date Prepared: N/A

Units: SU

LCSD Lab Sample ID: LCSD 280-58139/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/17/2011 0953
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
pH	7.00	7.00	7.050	7.050

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Duplicate - Batch: 280-58139

Method: SM 4500 H+ B

Preparation: N/A

Lab Sample ID: 280-13604-C-1 DU

Analysis Batch: 280-58139

Instrument ID: WC_pH Probe

Client Matrix: Water

Prep Batch: N/A

Lab File ID: 031711.txt

Dilution: 1.0

Units: SU

Initial Weight/Volume:

Date Analyzed: 03/17/2011 1344

Final Weight/Volume: 1.0 mL

Date Prepared: N/A

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	7.03	7.040	0.1	5	HF

DATA REPORTING QUALIFIERS

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Lab Section	Qualifier	Description
Metals		
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
	V	Serial Dilution exceeds the control limits
General Chemistry		
	HF	Field parameter with a holding time of 15 minutes

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-59559					
LCS 280-59559/4	Lab Control Sample	T	Water	8260B	
LCSD 280-59559/5	Lab Control Sample Duplicate	T	Water	8260B	
MB 280-59559/6	Method Blank	T	Water	8260B	
280-13539-G-6 MS	Matrix Spike	T	Water	8260B	
280-13539-G-6 MSD	Matrix Spike Duplicate	T	Water	8260B	
280-13610-1	BURKHART WW	T	Water	8260B	
280-13610-2TB	TRIP BLANK	T	Water	8260B	
280-13628-E-2 MS	Matrix Spike	T	Water	8260B	
280-13628-E-2 MSD	Matrix Spike Duplicate	T	Water	8260B	

Report Basis

T = Total

GC VOA

Analysis Batch:280-59408					
LCS 280-59408/2	Lab Control Sample	T	Water	RSK-175	
LCSD 280-59408/3	Lab Control Sample Duplicate	T	Water	RSK-175	
MB 280-59408/4	Method Blank	T	Water	RSK-175	
280-13610-1	BURKHART WW	T	Water	RSK-175	
500-31792-A-7 MS	Matrix Spike	T	Water	RSK-175	
500-31792-C-7 MSD	Matrix Spike Duplicate	T	Water	RSK-175	
Analysis Batch:280-59592					
LCS 280-59592/3	Lab Control Sample	T	Water	8015B	
LCSD 280-59592/4	Lab Control Sample Duplicate	T	Water	8015B	
MB 280-59592/5	Method Blank	T	Water	8015B	
280-13610-1	BURKHART WW	T	Water	8015B	
280-13778-Z-1 MS	Matrix Spike	T	Water	8015B	
280-13778-Z-1 MSD	Matrix Spike Duplicate	T	Water	8015B	

Report Basis

T = Total

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-13610-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-58157					
LCS 280-58157/2-A	Lab Control Sample	T	Water	3510C	
MB 280-58157/1-A	Method Blank	T	Water	3510C	
280-13606-B-3-A MS	Matrix Spike	T	Water	3510C	
280-13606-D-3-A MSD	Matrix Spike Duplicate	T	Water	3510C	
280-13610-1	BURKHART WW	T	Water	3510C	
Analysis Batch:280-59410					
LCS 280-58157/2-A	Lab Control Sample	T	Water	8015B	280-58157
MB 280-58157/1-A	Method Blank	T	Water	8015B	280-58157
280-13606-B-3-A MS	Matrix Spike	T	Water	8015B	280-58157
280-13606-D-3-A MSD	Matrix Spike Duplicate	T	Water	8015B	280-58157
280-13610-1	BURKHART WW	T	Water	8015B	280-58157

Report Basis

T = Total

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-58158					
LCS 280-58158/2-A	Lab Control Sample	T	Water	3010A	
MB 280-58158/1-A	Method Blank	T	Water	3010A	
280-13610-1	BURKHART WW	T	Water	3010A	
280-13610-1MS	Matrix Spike	T	Water	3010A	
280-13610-1MSD	Matrix Spike Duplicate	T	Water	3010A	
Prep Batch: 280-58159					
LCS 280-58159/2-A	Lab Control Sample	T	Water	3020A	
MB 280-58159/1-A	Method Blank	T	Water	3020A	
280-13610-1	BURKHART WW	T	Water	3020A	
280-13610-1MS	Matrix Spike	T	Water	3020A	
280-13610-1MSD	Matrix Spike Duplicate	T	Water	3020A	
Analysis Batch:280-58699					
LCS 280-58158/2-A	Lab Control Sample	T	Water	6010B	280-58158
MB 280-58158/1-A	Method Blank	T	Water	6010B	280-58158
280-13610-1	BURKHART WW	T	Water	6010B	280-58158
280-13610-1MS	Matrix Spike	T	Water	6010B	280-58158
280-13610-1MSD	Matrix Spike Duplicate	T	Water	6010B	280-58158
Analysis Batch:280-59087					
MB 280-59087/1	Method Blank	T	Water	20B	
280-13610-1	BURKHART WW	T	Water	20B	
Analysis Batch:280-59261					
LCS 280-58159/2-A	Lab Control Sample	T	Water	6020	280-58159
MB 280-58159/1-A	Method Blank	T	Water	6020	280-58159
280-13610-1	BURKHART WW	T	Water	6020	280-58159
280-13610-1MS	Matrix Spike	T	Water	6020	280-58159
280-13610-1MSD	Matrix Spike Duplicate	T	Water	6020	280-58159

Report Basis

T = Total

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-13610-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-58139					
LCS 280-58139/4	Lab Control Sample	T	Water	SM 4500 H+ B	
LCSD 280-58139/5	Lab Control Sample Duplicate	T	Water	SM 4500 H+ B	
280-13604-C-1 DU	Duplicate	T	Water	SM 4500 H+ B	
280-13610-1	BURKHART WW	T	Water	SM 4500 H+ B	
Analysis Batch:280-58401					
LCS 280-58401/31	Lab Control Sample	T	Water	SM 2320B	
LCSD 280-58401/32	Lab Control Sample Duplicate	T	Water	SM 2320B	
MB 280-58401/33	Method Blank	T	Water	SM 2320B	
280-13610-1	BURKHART WW	T	Water	SM 2320B	
280-13613-A-6 DU	Duplicate	T	Water	SM 2320B	
Analysis Batch:280-58660					
LCS 280-58660/2	Lab Control Sample	T	Water	SM 2540C	
LCSD 280-58660/3	Lab Control Sample Duplicate	T	Water	SM 2540C	
MB 280-58660/1	Method Blank	T	Water	SM 2540C	
280-13610-1	BURKHART WW	T	Water	SM 2540C	
280-13627-B-6 DU	Duplicate	T	Water	SM 2540C	
Analysis Batch:280-58764					
LCS 280-58764/4	Lab Control Sample	T	Water	300.0	
LCSD 280-58764/5	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-58764/6	Method Blank	T	Water	300.0	
280-13576-A-3 DU	Duplicate	T	Water	300.0	
280-13576-A-3 MS	Matrix Spike	T	Water	300.0	
280-13576-A-3 MSD	Matrix Spike Duplicate	T	Water	300.0	
280-13610-1	BURKHART WW	T	Water	300.0	
Analysis Batch:280-58765					
LCS 280-58765/3	Lab Control Sample	T	Water	SM 2510B	
LCSD 280-58765/4	Lab Control Sample Duplicate	T	Water	SM 2510B	
MB 280-58765/5	Method Blank	T	Water	SM 2510B	
280-13610-1	BURKHART WW	T	Water	SM 2510B	
280-13610-1DU	Duplicate	T	Water	SM 2510B	
Analysis Batch:280-59044					
LCS 280-59044/20	Lab Control Sample	T	Water	353.2	
LCSD 280-59044/21	Lab Control Sample Duplicate	T	Water	353.2	
MB 280-59044/19	Method Blank	T	Water	353.2	
280-13021-D-1 MS	Matrix Spike	T	Water	353.2	
280-13021-D-1 MSD	Matrix Spike Duplicate	T	Water	353.2	
280-13610-1	BURKHART WW	T	Water	353.2	

TestAmerica Denver

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-59644					
MB 280-59644/1	Method Blank	T	Water	SM 1030F	
280-13610-1	BURKHART WW	T	Water	SM 1030F	

Report Basis

T = Total

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Laboratory Chronicle

Lab ID: 280-13610-1

Client ID: BURKHART WW

Sample Date/Time: 03/16/2011 10:45

Received Date/Time: 03/17/2011 09:23

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-13610-M-1		280-59559		03/26/2011 17:29	1	TAL DEN	MD
A:8260B	280-13610-M-1		280-59559		03/26/2011 17:29	1	TAL DEN	MD
P:5030B	280-13610-J-1		280-59592		03/25/2011 18:40	1	TAL DEN	DBG
A:8015B	280-13610-J-1		280-59592		03/25/2011 18:40	1	TAL DEN	DBG
A:RSK-175	280-13610-H-1		280-59408		03/25/2011 11:21	1	TAL DEN	MPS
A:RSK-175	280-13610-H-1		280-59408		03/25/2011 11:22	1	TAL DEN	MPS
P:3510C	280-13610-B-1-A		280-59410	280-58157	03/17/2011 19:15	1	TAL DEN	JJW
A:8015B	280-13610-B-1-A		280-59410	280-58157	03/23/2011 14:28	1	TAL DEN	MRB
A:20B	280-13610-F-1		280-59087		03/24/2011 08:41	1	TAL DEN	JKH
P:3010A	280-13610-F-1-A		280-58699	280-58158	03/18/2011 17:00	1	TAL DEN	KMN
A:6010B	280-13610-F-1-A		280-58699	280-58158	03/21/2011 20:40	1	TAL DEN	LT
P:3020A	280-13610-F-1-D		280-59261	280-58159	03/22/2011 08:00	1	TAL DEN	JRH
A:6020	280-13610-F-1-D		280-59261	280-58159	03/24/2011 06:32	1	TAL DEN	LRD
A:300.0	280-13610-C-1		280-58764		03/21/2011 19:55	1	TAL DEN	TLP
A:300.0	280-13610-C-1		280-58764		03/21/2011 22:17	5	TAL DEN	TLP
A:353.2	280-13610-E-1		280-59044		03/23/2011 12:20	1	TAL DEN	LES
A:SM 1030F	280-13610-A-1		280-59644		03/28/2011 11:18	1	TAL DEN	RS
A:SM 2320B	280-13610-D-1		280-58401		03/18/2011 20:41	1	TAL DEN	SJS
A:SM 2510B	280-13610-C-1		280-58765		03/22/2011 15:09	1	TAL DEN	PMP
A:SM 2540C	280-13610-C-1		280-58660		03/22/2011 07:49	1	TAL DEN	BJD
A:SM 4500 H+ B	280-13610-C-1		280-58139		03/17/2011 14:23	1	TAL DEN	JMT

Lab ID: 280-13610-1 MS

Client ID: BURKHART WW

Sample Date/Time: 03/16/2011 10:45

Received Date/Time: 03/17/2011 09:23

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	280-13610-F-1-B MS		280-58699	280-58158	03/18/2011 17:00	1	TAL DEN	KMN
A:6010B	280-13610-F-1-B MS		280-58699	280-58158	03/21/2011 20:44	1	TAL DEN	LT
P:3020A	280-13610-F-1-E MS		280-59261	280-58159	03/22/2011 08:00	1	TAL DEN	JRH
A:6020	280-13610-F-1-E MS		280-59261	280-58159	03/24/2011 06:40	1	TAL DEN	LRD

Lab ID: 280-13610-1 MSD

Client ID: BURKHART WW

Sample Date/Time: 03/16/2011 10:45

Received Date/Time: 03/17/2011 09:23

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	280-13610-F-1-C MSD		280-58699	280-58158	03/18/2011 17:00	1	TAL DEN	KMN
A:6010B	280-13610-F-1-C MSD		280-58699	280-58158	03/21/2011 20:47	1	TAL DEN	LT
P:3020A	280-13610-F-1-F MSD		280-59261	280-58159	03/22/2011 08:00	1	TAL DEN	JRH
A:6020	280-13610-F-1-F MSD		280-59261	280-58159	03/24/2011 06:43	1	TAL DEN	LRD

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Laboratory Chronicle

Lab ID: 280-13610-1 DU

Client ID: BURKHART WW

Sample Date/Time: 03/16/2011 10:45

Received Date/Time: 03/17/2011 09:23

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 2510B	280-13610-C-1 DU		280-58765		03/22/2011 15:09	1	TAL DEN	PMP

Lab ID: 280-13610-1 SD

Client ID: BURKHART WW

Sample Date/Time: 03/16/2011 10:45

Received Date/Time: 03/17/2011 09:23

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	280-13610-F-1-A SD		280-58699	280-58158	03/18/2011 17:00	5	TAL DEN	KMN
A:6010B	280-13610-F-1-A SD		280-58699	280-58158	03/21/2011 20:42	5	TAL DEN	LT
P:3020A	280-13610-F-1-D SD		280-59261	280-58159	03/22/2011 08:00	5	TAL DEN	JRH
A:6020	280-13610-F-1-D SD		280-59261	280-58159	03/24/2011 06:34	5	TAL DEN	LRD
P:3020A	280-13610-F-1-D PDS		280-59261	280-58159	03/22/2011 08:00	1	TAL DEN	JRH
A:6020	280-13610-F-1-D PDS		280-59261	280-58159	03/24/2011 06:37	1	TAL DEN	LRD

Lab ID: 280-13610-2

Client ID: TRIP BLANK

Sample Date/Time: 03/16/2011 00:00

Received Date/Time: 03/17/2011 09:23

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-13610-A-2		280-59559		03/26/2011 17:48	1	TAL DEN	MD
A:8260B	280-13610-A-2		280-59559		03/26/2011 17:48	1	TAL DEN	MD

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Laboratory Chronicle

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 280-59559/6		280-59559		03/26/2011 09:06	1	TAL DEN	MD
A:8260B	MB 280-59559/6		280-59559		03/26/2011 09:06	1	TAL DEN	MD
P:5030B	MB 280-59592/5		280-59592		03/25/2011 13:25	1	TAL DEN	DBG
A:8015B	MB 280-59592/5		280-59592		03/25/2011 13:25	1	TAL DEN	DBG
A:RSK-175	MB 280-59408/4		280-59408		03/25/2011 10:29	1	TAL DEN	MPS
P:3510C	MB 280-58157/1-A		280-59410	280-58157	03/17/2011 19:15	1	TAL DEN	JJW
A:8015B	MB 280-58157/1-A		280-59410	280-58157	03/23/2011 13:31	1	TAL DEN	MRB
A:20B	MB 280-59087/1		280-59087		03/24/2011 08:41	1	TAL DEN	JKH
P:3010A	MB 280-58158/1-A		280-58699	280-58158	03/18/2011 17:00	1	TAL DEN	KMN
A:6010B	MB 280-58158/1-A		280-58699	280-58158	03/21/2011 19:48	1	TAL DEN	LT
P:3020A	MB 280-58159/1-A		280-59261	280-58159	03/22/2011 08:00	1	TAL DEN	JRH
A:6020	MB 280-58159/1-A		280-59261	280-58159	03/24/2011 06:26	1	TAL DEN	LRD
A:300.0	MB 280-58764/6		280-58764		03/21/2011 10:19	1	TAL DEN	TLP
A:353.2	MB 280-59044/19		280-59044		03/23/2011 11:55	1	TAL DEN	LES
A:SM 1030F	MB 280-59644/1		280-59644		03/28/2011 11:18	1	TAL DEN	RS
A:SM 2320B	MB 280-58401/33		280-58401		03/18/2011 18:09	1	TAL DEN	SJS
A:SM 2510B	MB 280-58765/5		280-58765		03/22/2011 15:09	1	TAL DEN	PMP
A:SM 2540C	MB 280-58660/1		280-58660		03/22/2011 07:49	1	TAL DEN	BJD

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 280-59559/4		280-59559		03/26/2011 08:28	1	TAL DEN	MD
A:8260B	LCS 280-59559/4		280-59559		03/26/2011 08:28	1	TAL DEN	MD
P:5030B	LCS 280-59592/3		280-59592		03/25/2011 12:09	1	TAL DEN	DBG
A:8015B	LCS 280-59592/3		280-59592		03/25/2011 12:09	1	TAL DEN	DBG
A:RSK-175	LCS 280-59408/2		280-59408		03/25/2011 10:20	1	TAL DEN	MPS
P:3510C	LCS 280-58157/2-A		280-59410	280-58157	03/17/2011 19:15	1	TAL DEN	JJW
A:8015B	LCS 280-58157/2-A		280-59410	280-58157	03/23/2011 14:00	1	TAL DEN	MRB
P:3010A	LCS 280-58158/2-A		280-58699	280-58158	03/18/2011 17:00	1	TAL DEN	KMN
A:6010B	LCS 280-58158/2-A		280-58699	280-58158	03/21/2011 19:51	1	TAL DEN	LT
P:3020A	LCS 280-58159/2-A		280-59261	280-58159	03/22/2011 08:00	1	TAL DEN	JRH
A:6020	LCS 280-58159/2-A		280-59261	280-58159	03/24/2011 06:29	1	TAL DEN	LRD
A:300.0	LCS 280-58764/4		280-58764		03/21/2011 09:47	1	TAL DEN	TLP
A:353.2	LCS 280-59044/20		280-59044		03/23/2011 11:57	1	TAL DEN	LES
A:SM 2320B	LCS 280-58401/31		280-58401		03/18/2011 17:52	1	TAL DEN	SJS
A:SM 2510B	LCS 280-58765/3		280-58765		03/22/2011 15:09	1	TAL DEN	PMP
A:SM 2540C	LCS 280-58660/2		280-58660		03/22/2011 07:49	1	TAL DEN	BJD
A:SM 4500 H+ B	LCS 280-58139/4		280-58139		03/17/2011 09:52	1	TAL DEN	JMT

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Laboratory Chronicle

Lab ID: LCSD

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 280-59559/5		280-59559		03/26/2011 08:47	1	TAL DEN	MD
A:8260B	LCSD 280-59559/5		280-59559		03/26/2011 08:47	1	TAL DEN	MD
P:5030B	LCSD 280-59592/4		280-59592		03/25/2011 12:47	1	TAL DEN	DBG
A:8015B	LCSD 280-59592/4		280-59592		03/25/2011 12:47	1	TAL DEN	DBG
A:RSK-175	LCSD 280-59408/3		280-59408		03/25/2011 10:25	1	TAL DEN	MPS
A:300.0	LCSD 280-58764/5		280-58764		03/21/2011 10:03	1	TAL DEN	TLP
A:353.2	LCSD 280-59044/21		280-59044		03/23/2011 11:58	1	TAL DEN	LES
A:SM 2320B	LCSD 280-58401/32		280-58401		03/18/2011 18:02	1	TAL DEN	SJS
A:SM 2510B	LCSD 280-58765/4		280-58765		03/22/2011 15:09	1	TAL DEN	PMP
A:SM 2540C	LCSD 280-58660/3		280-58660		03/22/2011 07:49	1	TAL DEN	BJD
A:SM 4500 H+ B	LCSD 280-58139/5		280-58139		03/17/2011 09:53	1	TAL DEN	JMT

Lab ID: MRL

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	MRL 280-58764/3		280-58764		03/21/2011 09:31	1	TAL DEN	TLP
A:353.2	MRL 280-59044/17		280-59044		03/23/2011 11:52	1	TAL DEN	LES

Lab ID: MS

Client ID: N/A

Sample Date/Time: 03/15/2011 14:00

Received Date/Time: 03/15/2011 16:28

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-13539-G-6 MS		280-59559		03/26/2011 12:20	1	TAL DEN	MD
A:8260B	280-13539-G-6 MS		280-59559		03/26/2011 12:20	1	TAL DEN	MD
P:5030B	280-13628-E-2 MS		280-59559		03/26/2011 12:58	1	TAL DEN	MD
A:8260B	280-13628-E-2 MS		280-59559		03/26/2011 12:58	1	TAL DEN	MD
P:5030B	280-13778-Z-1 MS		280-59592		03/25/2011 14:53	1	TAL DEN	DBG
A:8015B	280-13778-Z-1 MS		280-59592		03/25/2011 14:53	1	TAL DEN	DBG
A:RSK-175	500-31792-A-7 MS		280-59408		03/25/2011 11:45	1	TAL DEN	MPS
P:3510C	280-13606-B-3-A MS		280-59410	280-58157	03/17/2011 19:15	1	TAL DEN	JJW
A:8015B	280-13606-B-3-A MS		280-59410	280-58157	03/23/2011 16:21	1	TAL DEN	MRB
A:300.0	280-13576-A-3 MS		280-58764		03/21/2011 19:23	1	TAL DEN	TLP
A:353.2	280-13021-D-1 MS		280-59044		03/23/2011 12:01	1	TAL DEN	LES

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Laboratory Chronicle

Lab ID: MSD

Client ID: N/A

Sample Date/Time: 03/15/2011 14:00

Received Date/Time: 03/15/2011 16:28

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-13539-G-6 MSD		280-59559		03/26/2011 12:39	1	TAL DEN	MD
A:8260B	280-13539-G-6 MSD		280-59559		03/26/2011 12:39	1	TAL DEN	MD
P:5030B	280-13628-E-2 MSD		280-59559		03/26/2011 13:18	1	TAL DEN	MD
A:8260B	280-13628-E-2 MSD		280-59559		03/26/2011 13:18	1	TAL DEN	MD
P:5030B	280-13778-Z-1 MSD		280-59592		03/25/2011 15:31	1	TAL DEN	DBG
A:8015B	280-13778-Z-1 MSD		280-59592		03/25/2011 15:31	1	TAL DEN	DBG
A:RSK-175	500-31792-C-7 MSD		280-59408		03/25/2011 11:49	1	TAL DEN	MPS
P:3510C	280-13606-D-3-A MSD		280-59410	280-58157	03/17/2011 19:15	1	TAL DEN	JJW
A:8015B	280-13606-D-3-A MSD		280-59410	280-58157	03/23/2011 16:49	1	TAL DEN	MRB
A:300.0	280-13576-A-3 MSD		280-58764		03/21/2011 19:39	1	TAL DEN	TLP
A:353.2	280-13021-D-1 MSD		280-59044		03/23/2011 12:03	1	TAL DEN	LES

Lab ID: DU

Client ID: N/A

Sample Date/Time: 03/14/2011 13:20

Received Date/Time: 03/16/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-13576-A-3 DU		280-58764		03/21/2011 19:07	1	TAL DEN	TLP
A:SM 2320B	280-13613-A-6 DU		280-58401		03/18/2011 18:39	1	TAL DEN	SJS
A:SM 2540C	280-13627-B-6 DU		280-58660		03/22/2011 07:49	1	TAL DEN	BJD
A:SM 4500 H+ B	280-13604-C-1 DU		280-58139		03/17/2011 13:44	1	TAL DEN	JMT

Lab References:

TAL DEN = TestAmerica Denver

Method 8260B

Volatile Organic Compounds (GC/MS)
by Method 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-13610-1
 SDG No.: _____
 Client Sample ID: BURKHART WW Lab Sample ID: 280-13610-1
 Matrix: Water Lab File ID: G2_2464.D
 Analysis Method: 8260B Date Collected: 03/16/2011 10:45
 Sample wt/vol: 20 (mL) Date Analyzed: 03/26/2011 17:29
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 59559 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.16
100-41-4	Ethylbenzene	ND		1.0	0.16
108-88-3	Toluene	ND		1.0	0.17
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.34
95-47-6	o-Xylene	ND		1.0	0.19

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		70-127
2037-26-5	Toluene-d8 (Surr)	98		80-125
460-00-4	4-Bromofluorobenzene (Surr)	99		78-120
1868-53-7	Dibromofluoromethane (Surr)	94		77-120

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\032611.b\G2_2464.D
 Lab Smp Id: 280-13610-M-1 Client Smp ID: BURKHART WW
 Inj Date : 26-MAR-2011 17:29
 Operator : DOBRANSKYM Inst ID: GCMS2.i
 Smp Info : 280-13610-m-1,,PH<2
 Misc Info : 280-13610-M-1
 Comment :
 Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\032611.b\8260B-H2O.m
 Meth Date : 26-Mar-2011 13:18 dobranskym Quant Type: ISTD
 Cal Date : 18-MAR-2011 00:23 Cal File: G2_2062.D
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: TALS.sub
 Target Version: 4.14
 Processing Host: DENPC364

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
* 59 Fluorobenzene	96	7.845	7.845 (1.000)		2609519	12.5000	
* 85 Chlorobenzene-d5	119	10.105	10.104 (1.000)		524748	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	11.971	11.971 (1.000)		682804	12.5000	(Q)
\$ 49 Dibromofluoromethane (Surr)	111	7.280	7.287 (0.928)		464660	11.7861	11.7861
\$ 55 1,2-Dichloroethane-d4	65	7.581	7.580 (0.966)		421303	11.3716	11.3716
\$ 73 Toluene-d8	98	9.018	9.025 (0.892)		2409676	12.2847	12.2847
\$ 96 4-Bromofluorobenzene (Surr)	95	10.984	10.984 (1.087)		744447	12.4158	12.4158
M 1 1,2-Dichloroethene (total)	96	Compound Not Detected.					
M 2 Xylene (total)	106	Compound Not Detected.					
M 3 1,3-Dichloropropene (total)	100	Compound Not Detected.					
M 4 Trihalomethanes (total)	100	Compound Not Detected.					
5 dichlorodifluoromethane	85	Compound Not Detected.					
6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
7 Chloromethane	50	Compound Not Detected.					
8 Vinyl Chloride	62	Compound Not Detected.					
9 Ethylene Oxide	43	Compound Not Detected.					
10 Bromomethane	94	Compound Not Detected.					
11 Chloroethane	64	Compound Not Detected.					
12 Dichlorofluoromethane	67	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
14 Ethanol	45	Compound Not Detected.					
17 Ethyl Ether	59	Compound Not Detected.					

Compounds	QUANT SIG						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/L)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====		=====	=====
19 Acrolein	56				Compound Not Detected.			
20 Acetone	43				Compound Not Detected.			
21 Trichlorotrifluoroethane	151				Compound Not Detected.			
22 2-propanol	45				Compound Not Detected.			
23 1,1-Dichloroethene	96				Compound Not Detected.			
24 Iodomethane	142				Compound Not Detected.			
25 Acetonitrile	41				Compound Not Detected.			
26 Methyl Acetate	43				Compound Not Detected.			
28 Carbon Disulfide	76				Compound Not Detected.			
27 Allyl Chloride	41				Compound Not Detected.			
29 tert-Butyl alcohol	59				Compound Not Detected.			
30 Methylene Chloride	84				Compound Not Detected.			
31 Acrylonitrile	53				Compound Not Detected.			
32 Methyl t-butyl ether	73				Compound Not Detected.			
33 trans-1,2-Dichloroethene	96				Compound Not Detected.			
34 Hexane	57				Compound Not Detected.			
35 Vinyl acetate	43				Compound Not Detected.			
36 Isopropyl ether	87				Compound Not Detected.			
37 1,1-Dichloroethane	63				Compound Not Detected.			
38 Chloroprene	53				Compound Not Detected.			
39 ETBE	59				Compound Not Detected.			
41 2-Butanone	43				Compound Not Detected.			
40 Ethyl Acetate	43				Compound Not Detected.			
43 cis-1,2-Dichloroethene	96				Compound Not Detected.			
42 Propionitrile	54				Compound Not Detected.			
44 2,2-Dichloropropane	77				Compound Not Detected.			
45 Methacrylonitrile	41				Compound Not Detected.			
46 Bromochloromethane	128				Compound Not Detected.			
47 Chloroform	83				Compound Not Detected.			
48 Tetrahydrofuran	42				Compound Not Detected.			
51 1,1,1-Trichloroethane	97				Compound Not Detected.			
50 Isobutanol	41				Compound Not Detected.			
52 Cyclohexane	56				Compound Not Detected.			
53 1,1-Dichloropropene	75				Compound Not Detected.			
54 Carbon Tetrachloride	117				Compound Not Detected.			
56 1,2-Dichloroethane	62				Compound Not Detected.			
58 Benzene	78				Compound Not Detected.			
57 TAME	73				Compound Not Detected.			
60 n-Butanol	56				Compound Not Detected.			
61 Trichloroethene	130				Compound Not Detected.			
62 2-Pentanone	43				Compound Not Detected.			
63 Methyl Methacrylate	100				Compound Not Detected.			
64 1,2-Dichloropropane	63				Compound Not Detected.			
65 Methyl Cyclohexane	55				Compound Not Detected.			
66 1,4-Dioxane	88				Compound Not Detected.			
67 Dibromomethane	93				Compound Not Detected.			
68 Bromodichloromethane	83				Compound Not Detected.			
69 2-nitropropane	41				Compound Not Detected.			
70 2-Chloroethyl vinyl ether	63				Compound Not Detected.			
71 cis-1,3-Dichloropropene	75				Compound Not Detected.			
72 4-Methyl-2-pentanone	43				Compound Not Detected.			
74 Toluene	91				Compound Not Detected.			
76 trans-1,3-Dichloropropene	75				Compound Not Detected.			
75 Ethyl methacrylate	69				Compound Not Detected.			

Compounds	QUANT SIG						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/L)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====		=====	=====
77 1,1,2-Trichloroethane	97				Compound Not Detected.			
78 2-Hexanone	43				Compound Not Detected.			
79 1,3-Dichloropropane	76				Compound Not Detected.			
80 Tetrachloroethene	164				Compound Not Detected.			
81 Dibromochloromethane	129				Compound Not Detected.			
82 Tetrahydrothiophene	60				Compound Not Detected.			
83 1,2-Dibromoethane	107				Compound Not Detected.			
84 1-Chlorohexane	91				Compound Not Detected.			
86 Chlorobenzene	112				Compound Not Detected.			
87 1,1,1,2-Tetrachloroethane	131				Compound Not Detected.			
88 Ethylbenzene	106				Compound Not Detected.			
89 m and p-Xylene	106				Compound Not Detected.			
91 o-Xylene	106				Compound Not Detected.			
90 Styrene	104				Compound Not Detected.			
92 Bromoform	173				Compound Not Detected.			
93 isopropyl benzene	105				Compound Not Detected.			
94 cis-1,4-dichloro-2-butene	53				Compound Not Detected.			
95 Cyclohexanone	55				Compound Not Detected.			
97 1,1,2,2-Tetrachloroethane	83				Compound Not Detected.			
98 t-1,4-Dichloro-2-butene	53				Compound Not Detected.			
99 1,2,3-Trichloropropane	110				Compound Not Detected.			
101 Bromobenzene	156				Compound Not Detected.			
100 n-Propylbenzene	120				Compound Not Detected.			
103 2-Chlorotoluene	126				Compound Not Detected.			
102 1,3,5-Trimethylbenzene	105				Compound Not Detected.			
104 4-Chlorotoluene	126				Compound Not Detected.			
105 tert-Butylbenzene	119				Compound Not Detected.			
106 1,2,4-Trimethylbenzene	105				Compound Not Detected.			
107 sec-Butylbenzene	134				Compound Not Detected.			
108 4-Isopropyltoluene	119				Compound Not Detected.			
109 1,3-Dichlorobenzene	146				Compound Not Detected.			
112 1,4-dichlorobenzene	146				Compound Not Detected.			
111 1,2,3-Trimethylbenzene	105				Compound Not Detected.			
113 n-Butylbenzene	91				Compound Not Detected.			
114 1,2-Dichlorobenzene	146				Compound Not Detected.			
115 1,2-Dibromo-3-chloropropane	157				Compound Not Detected.			
116 1,2,4-Trichlorobenzene	180				Compound Not Detected.			
117 Hexachlorobutadiene	225				Compound Not Detected.			
118 Naphthalene	128				Compound Not Detected.			
119 1,2,3-Trichlorobenzene	180				Compound Not Detected.			
131 Dichloroacetonitrile tic	74				Compound Not Detected.			
132 2,3-Dichloro-1-propene tic	75				Compound Not Detected.			

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: G2_2464.D

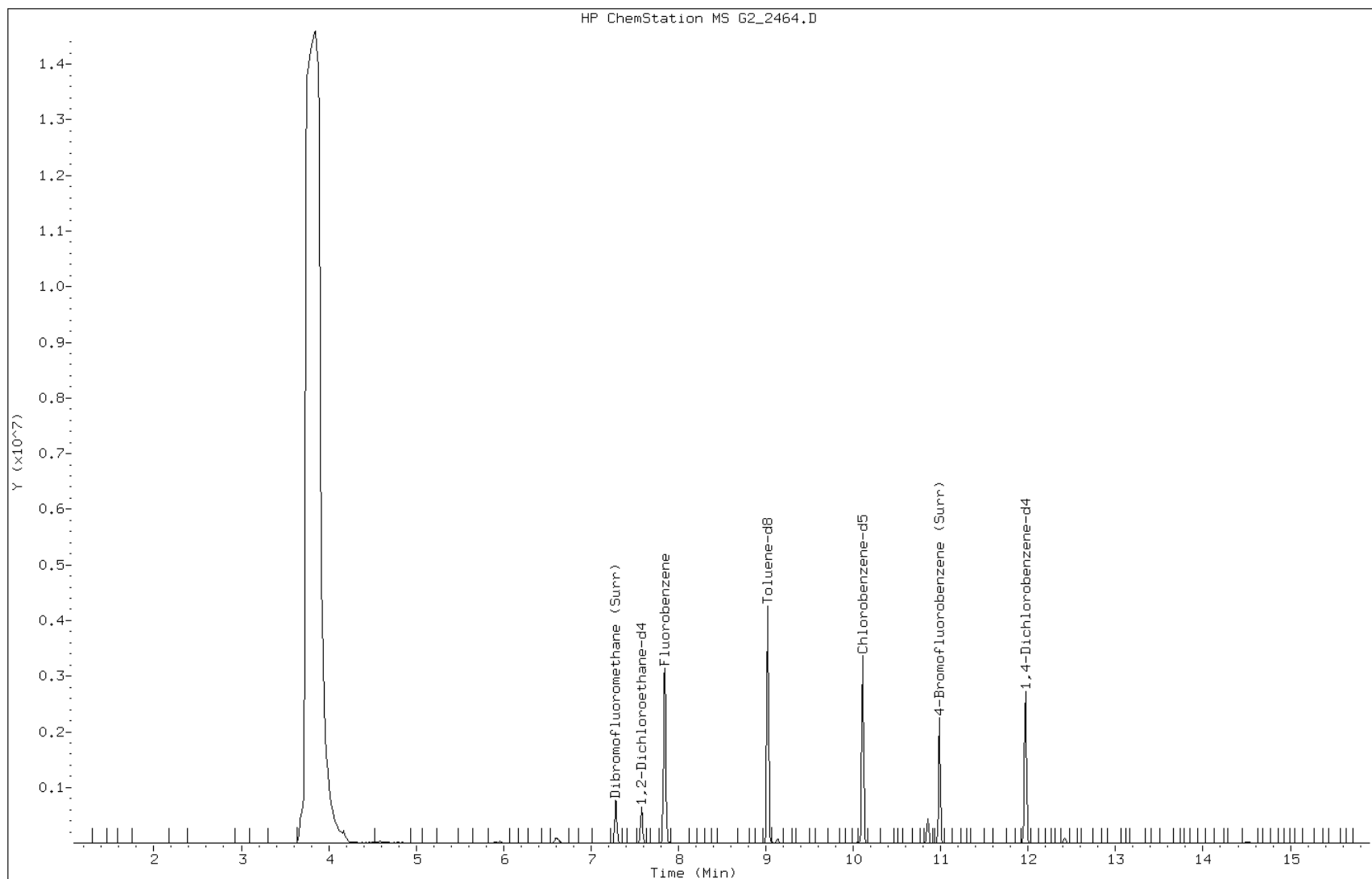
Date: 26-MAR-2011 17:29

Client ID: BURKHART WW

Instrument: GCMS2.i

Sample Info: 280-13610-m-1,,PH<2

Operator: DOBRANSKYM



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-13610-1
 SDG No.: _____
 Client Sample ID: TRIP BLANK Lab Sample ID: 280-13610-2
 Matrix: Water Lab File ID: G2_2465.D
 Analysis Method: 8260B Date Collected: 03/16/2011 00:00
 Sample wt/vol: 20 (mL) Date Analyzed: 03/26/2011 17:48
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 59559 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.16
100-41-4	Ethylbenzene	ND		1.0	0.16
108-88-3	Toluene	ND		1.0	0.17
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.34
95-47-6	o-Xylene	ND		1.0	0.19

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		70-127
2037-26-5	Toluene-d8 (Surr)	100		80-125
460-00-4	4-Bromofluorobenzene (Surr)	101		78-120
1868-53-7	Dibromofluoromethane (Surr)	96		77-120

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\032611.b\G2_2465.D
 Lab Smp Id: 280-13610-A-2 Client Smp ID: TRIP BLANK
 Inj Date : 26-MAR-2011 17:48
 Operator : DOBRANSKYM Inst ID: GCMS2.i
 Smp Info : 280-13610-a-2,,PH<2
 Misc Info : 280-13610-A-2
 Comment :
 Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\032611.b\8260B-H2O.m
 Meth Date : 26-Mar-2011 13:18 dobranskym Quant Type: ISTD
 Cal Date : 18-MAR-2011 00:23 Cal File: G2_2062.D
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: TALS.sub
 Target Version: 4.14
 Processing Host: DENPC364

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
* 59 Fluorobenzene	96	7.845	7.845 (1.000)		2522796	12.5000	
* 85 Chlorobenzene-d5	119	10.105	10.104 (1.000)		506631	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	11.971	11.971 (1.000)		660156	12.5000	(Q)
\$ 49 Dibromofluoromethane (Surr)	111	7.287	7.287 (0.929)		455913	11.9618	11.9618
\$ 55 1,2-Dichloroethane-d4	65	7.580	7.580 (0.966)		415841	11.6100	11.6100
\$ 73 Toluene-d8	98	9.025	9.025 (0.893)		2360574	12.4647	12.4647
\$ 96 4-Bromofluorobenzene (Surr)	95	10.984	10.984 (1.087)		728322	12.5813	12.5813
M 1 1,2-Dichloroethene (total)	96	Compound Not Detected.					
M 2 Xylene (total)	106	Compound Not Detected.					
M 3 1,3-Dichloropropene (total)	100	Compound Not Detected.					
M 4 Trihalomethanes (total)	100	Compound Not Detected.					
5 dichlorodifluoromethane	85	Compound Not Detected.					
6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
7 Chloromethane	50	Compound Not Detected.					
8 Vinyl Chloride	62	Compound Not Detected.					
9 Ethylene Oxide	43	Compound Not Detected.					
10 Bromomethane	94	Compound Not Detected.					
11 Chloroethane	64	Compound Not Detected.					
12 Dichlorofluoromethane	67	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
14 Ethanol	45	Compound Not Detected.					
17 Ethyl Ether	59	Compound Not Detected.					

Compounds	QUANT SIG						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/L)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====		=====	=====
19 Acrolein	56				Compound Not Detected.			
20 Acetone	43				Compound Not Detected.			
21 Trichlorotrifluoroethane	151				Compound Not Detected.			
22 2-propanol	45				Compound Not Detected.			
23 1,1-Dichloroethene	96				Compound Not Detected.			
24 Iodomethane	142				Compound Not Detected.			
25 Acetonitrile	41				Compound Not Detected.			
26 Methyl Acetate	43				Compound Not Detected.			
28 Carbon Disulfide	76				Compound Not Detected.			
27 Allyl Chloride	41				Compound Not Detected.			
29 tert-Butyl alcohol	59				Compound Not Detected.			
30 Methylene Chloride	84				Compound Not Detected.			
31 Acrylonitrile	53				Compound Not Detected.			
32 Methyl t-butyl ether	73				Compound Not Detected.			
33 trans-1,2-Dichloroethene	96				Compound Not Detected.			
34 Hexane	57				Compound Not Detected.			
35 Vinyl acetate	43				Compound Not Detected.			
36 Isopropyl ether	87				Compound Not Detected.			
37 1,1-Dichloroethane	63				Compound Not Detected.			
38 Chloroprene	53				Compound Not Detected.			
39 ETBE	59				Compound Not Detected.			
41 2-Butanone	43				Compound Not Detected.			
40 Ethyl Acetate	43				Compound Not Detected.			
43 cis-1,2-Dichloroethene	96				Compound Not Detected.			
42 Propionitrile	54				Compound Not Detected.			
44 2,2-Dichloropropane	77				Compound Not Detected.			
45 Methacrylonitrile	41				Compound Not Detected.			
46 Bromochloromethane	128				Compound Not Detected.			
47 Chloroform	83				Compound Not Detected.			
48 Tetrahydrofuran	42				Compound Not Detected.			
51 1,1,1-Trichloroethane	97				Compound Not Detected.			
50 Isobutanol	41				Compound Not Detected.			
52 Cyclohexane	56				Compound Not Detected.			
53 1,1-Dichloropropene	75				Compound Not Detected.			
54 Carbon Tetrachloride	117				Compound Not Detected.			
56 1,2-Dichloroethane	62				Compound Not Detected.			
58 Benzene	78				Compound Not Detected.			
57 TAME	73				Compound Not Detected.			
60 n-Butanol	56				Compound Not Detected.			
61 Trichloroethene	130				Compound Not Detected.			
62 2-Pentanone	43				Compound Not Detected.			
63 Methyl Methacrylate	100				Compound Not Detected.			
64 1,2-Dichloropropane	63				Compound Not Detected.			
65 Methyl Cyclohexane	55				Compound Not Detected.			
66 1,4-Dioxane	88				Compound Not Detected.			
67 Dibromomethane	93				Compound Not Detected.			
68 Bromodichloromethane	83				Compound Not Detected.			
69 2-nitropropane	41				Compound Not Detected.			
70 2-Chloroethyl vinyl ether	63				Compound Not Detected.			
71 cis-1,3-Dichloropropene	75				Compound Not Detected.			
72 4-Methyl-2-pentanone	43				Compound Not Detected.			
74 Toluene	91				Compound Not Detected.			
76 trans-1,3-Dichloropropene	75				Compound Not Detected.			
75 Ethyl methacrylate	69				Compound Not Detected.			

Compounds	QUANT SIG						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/L)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====		=====	=====
77 1,1,2-Trichloroethane	97				Compound Not Detected.			
78 2-Hexanone	43				Compound Not Detected.			
79 1,3-Dichloropropane	76				Compound Not Detected.			
80 Tetrachloroethene	164				Compound Not Detected.			
81 Dibromochloromethane	129				Compound Not Detected.			
82 Tetrahydrothiophene	60				Compound Not Detected.			
83 1,2-Dibromoethane	107				Compound Not Detected.			
84 1-Chlorohexane	91				Compound Not Detected.			
86 Chlorobenzene	112				Compound Not Detected.			
87 1,1,1,2-Tetrachloroethane	131				Compound Not Detected.			
88 Ethylbenzene	106				Compound Not Detected.			
89 m and p-Xylene	106				Compound Not Detected.			
91 o-Xylene	106				Compound Not Detected.			
90 Styrene	104				Compound Not Detected.			
92 Bromoform	173				Compound Not Detected.			
93 isopropyl benzene	105				Compound Not Detected.			
94 cis-1,4-dichloro-2-butene	53				Compound Not Detected.			
95 Cyclohexanone	55				Compound Not Detected.			
97 1,1,2,2-Tetrachloroethane	83				Compound Not Detected.			
98 t-1,4-Dichloro-2-butene	53				Compound Not Detected.			
99 1,2,3-Trichloropropane	110				Compound Not Detected.			
101 Bromobenzene	156				Compound Not Detected.			
100 n-Propylbenzene	120				Compound Not Detected.			
103 2-Chlorotoluene	126				Compound Not Detected.			
102 1,3,5-Trimethylbenzene	105				Compound Not Detected.			
104 4-Chlorotoluene	126				Compound Not Detected.			
105 tert-Butylbenzene	119				Compound Not Detected.			
106 1,2,4-Trimethylbenzene	105				Compound Not Detected.			
107 sec-Butylbenzene	134				Compound Not Detected.			
108 4-Isopropyltoluene	119				Compound Not Detected.			
109 1,3-Dichlorobenzene	146				Compound Not Detected.			
112 1,4-dichlorobenzene	146				Compound Not Detected.			
111 1,2,3-Trimethylbenzene	105				Compound Not Detected.			
113 n-Butylbenzene	91				Compound Not Detected.			
114 1,2-Dichlorobenzene	146				Compound Not Detected.			
115 1,2-Dibromo-3-chloropropane	157				Compound Not Detected.			
116 1,2,4-Trichlorobenzene	180				Compound Not Detected.			
117 Hexachlorobutadiene	225				Compound Not Detected.			
118 Naphthalene	128				Compound Not Detected.			
119 1,2,3-Trichlorobenzene	180				Compound Not Detected.			
131 Dichloroacetonitrile tic	74				Compound Not Detected.			
132 2,3-Dichloro-1-propene tic	75				Compound Not Detected.			

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Method 8015B – GRO

Gasoline Range Organics (GC) by
Method 8015B

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-13610-1
SDG No.: _____
Client Sample ID: BURKHART WW Lab Sample ID: 280-13610-1
Matrix: Water Lab File ID: 113F1301.D
Analysis Method: 8015B Date Collected: 03/16/2011 10:45
Sample wt/vol: 5(mL) Date Analyzed: 03/25/2011 18:40
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RTX 502.2 (105) ID: 0.53(mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 59592 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND		25	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	93		82-110

TestAmerica

VOLATILE REPORT SOW 3/90

Data file : \\DenSvr03\Public\chem\GCV\GC_L.i\0325111.B\113F1301.D
 Lab Smp Id: 280-13610-J-1 Client Smp ID: BURKHART WW
 Inj Date : 25-MAR-2011 18:40
 Operator : DG Inst ID: GC_L.i
 Smp Info : 280-13610-j-1
 Misc Info : 280-13610-J-1
 Comment : REV. OLMO1.1.1
 Method : \\DenSvr03\Public\chem\GCV\GC_L.i\0325111.B\8015.m
 Meth Date : 25-Mar-2011 11:49 target Quant Type: ESTD
 Cal Date : 25-JAN-2011 13:37 Cal File: 129F0501.D
 Als bottle: 113
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: GRO.A.01.sub
 Target Version: 4.14
 Processing Host: DENPC025

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	5.000	final purge volume (ml)
Vs	5.000	vlm of sample added to purge vessel (ml)
Cpnd Variable		Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
\$ 2 Trifluorotoluene	12.123	12.120	0.003	218212	28.0002	28.0002(R)
S 3 GRO - C6 to C10	7.067-20.293			45198	6.54078	6.54078(a)
4 1-Chloro-4-Fluorobenzene	16.743	16.746	-0.003	221951	28.1000	28.1000
\$ 1 Chlorobenzene	17.040	17.043	-0.003	258210	26.3074	26.3074(R)

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

Data File: 113F1301.D

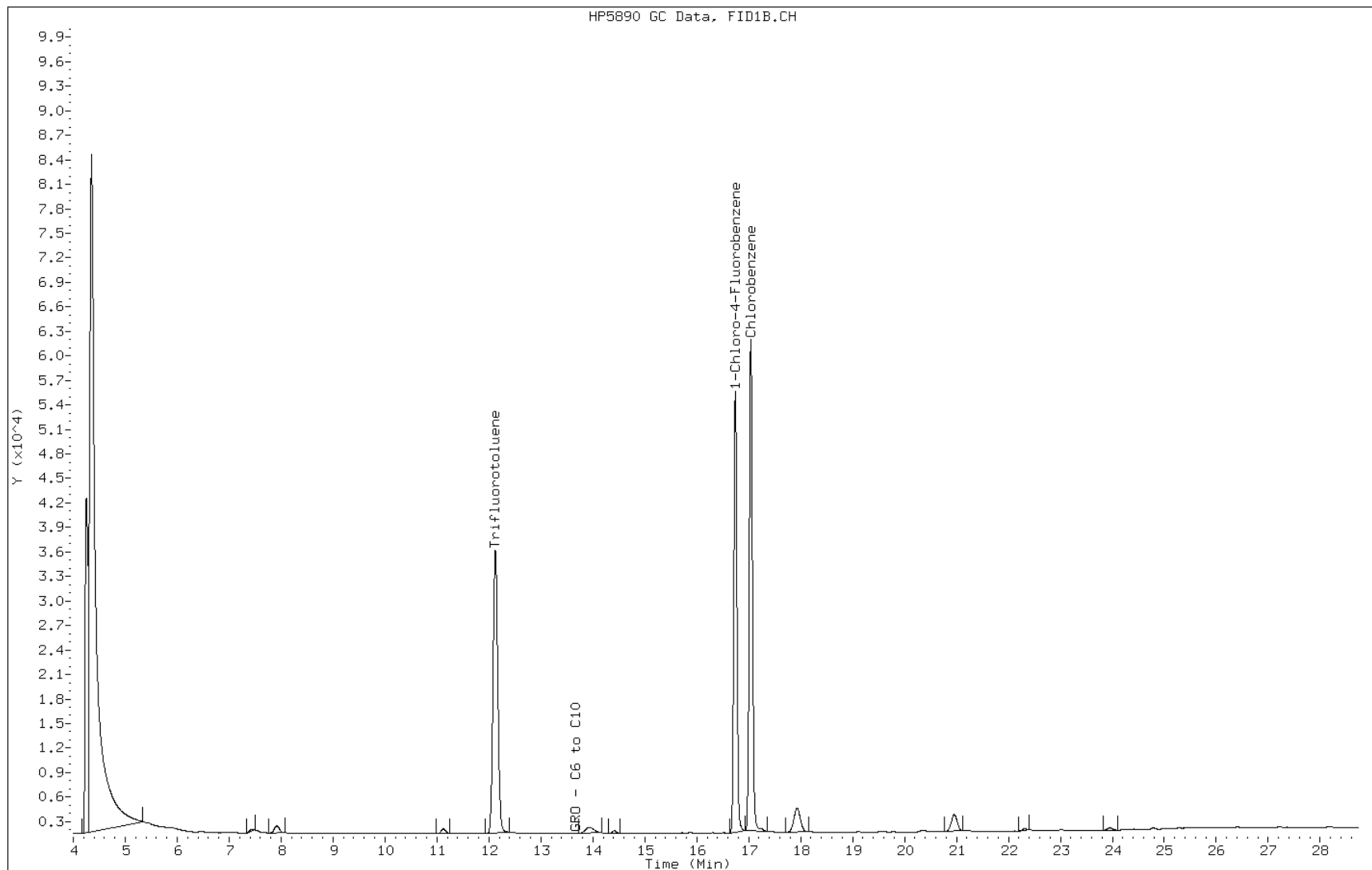
Date: 25-MAR-2011 18:40

Client ID: BURKHART WW

Instrument: GC_L.i

Sample Info: 280-13610-j-1

Operator: DG



Method RSK-175

Dissolved Gases (GC) by Method
RSK_175

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-13610-1
SDG No.: _____
Client Sample ID: BURKHART WW Lab Sample ID: 280-13610-1
Matrix: Water Lab File ID: 013F1301.D
Analysis Method: RSK-175 Date Collected: 03/16/2011 10:45
Sample wt/vol: 18 (mL) Date Analyzed: 03/25/2011 11:21
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RT-VPLOT ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 59408 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	ND		5.0	0.22

TestAmerica

RSK-175 Dissolved Gasses in Water

Data file : \\DenSvr03\Public\chem\GCV\GC_J.i\0325111.B\013F1301.D
Lab Smp Id: 280-13610-H-1 Client Smp ID: BURKHART WW
Inj Date : 25-MAR-2011 11:21
Operator : mps Inst ID: GC_J.i
Smp Info : 280-13610-H-1
Misc Info : 280-13610-H-1
Comment : SOP: DV-GC-0025
Method : \\DenSvr03\Public\chem\GCV\GC_J.i\0325111.B\RSK-1_8PT.m
Meth Date : 25-Mar-2011 10:40 SmithM Quant Type: ESTD
Cal Date : 08-FEB-2011 18:28 Cal File: 035F3501.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175_8pt.sub
Target Version: 4.14
Processing Host: DENPC290

Concentration Formula: Amt * DF * 1 * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
=====	====	=====	=====	=====	=====	=====
1 Methane	1.223	1.226	-0.003	1217	0.99167	0.9917(aM)
2 Ethene	Compound Not Detected.					
3 Ethane	Compound Not Detected.					
4 Acetylene	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: 013F1301.D

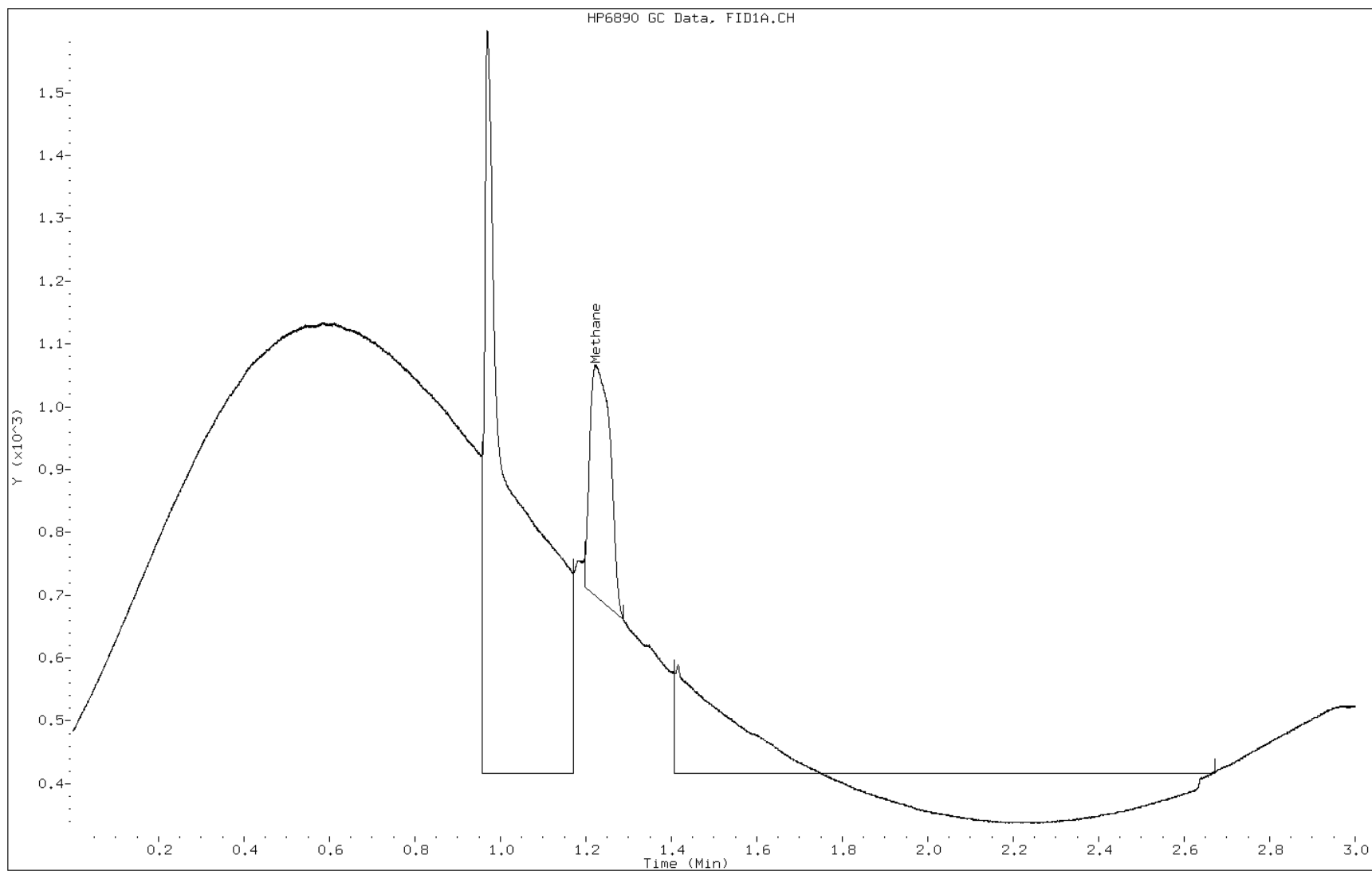
Date: 25-MAR-2011 11:21

Client ID: BURKHART WW

Instrument: GC_J.i

Sample Info: 280-13610-H-1

Operator: mps

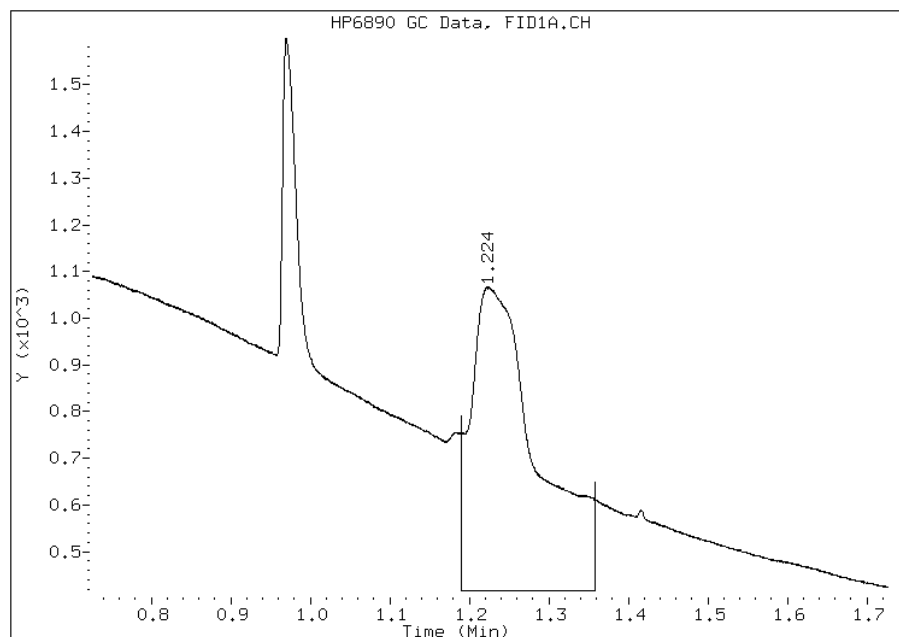


Manual Integration Report

Data File: 013F1301.D
Inj. Date and Time: 25-MAR-2011 11:21
Instrument ID: GC_J.i
Client ID: BURKHART WW
Compound: 1 Methane
CAS #: 67-56-1
Report Date: 03/25/2011

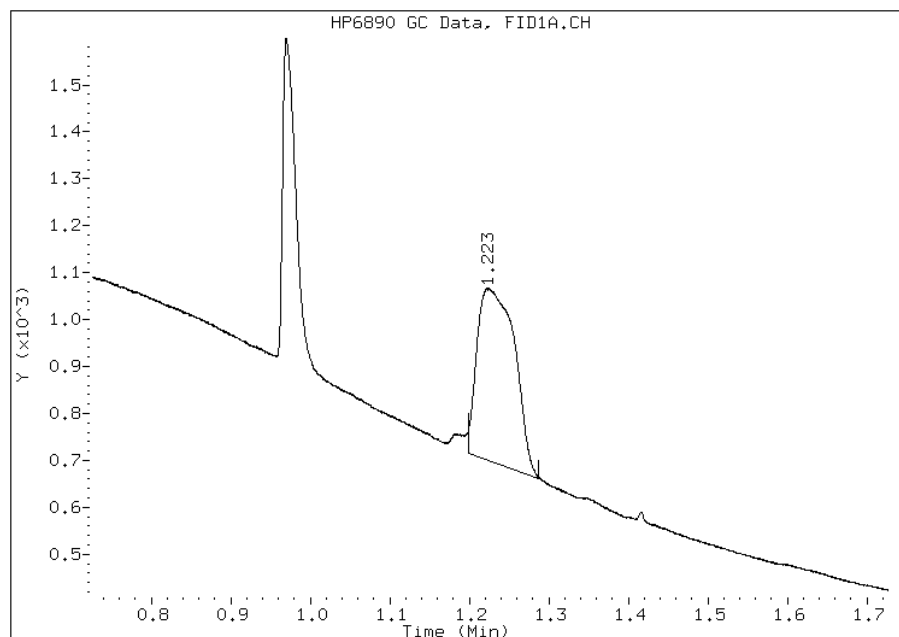
Processing Integration Results

RT: 1.22
Response: 3733
Amount: 2.94
Conc: 2.94



Manual Integration Results

RT: 1.22
Response: 1217
Amount: 0.99
Conc: 0.99



Manually Integrated By: SmithM
Modification Date: 25-Mar-2011 11:40
Manual Integration Reason: Baseline Event

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-13610-1
SDG No.: _____
Client Sample ID: BURKHART WW Lab Sample ID: 280-13610-1
Matrix: Water Lab File ID: 013F1301.D
Analysis Method: RSK-175 Date Collected: 03/16/2011 10:45
Sample wt/vol: 18 (mL) Date Analyzed: 03/25/2011 11:22
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RT-3PLOT ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 59408 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	ND		5.0	0.22

TestAmerica

RSK-175 Dissolved Gasses in Water

Data file : \\DenSvr03\Public\chem\GCV\GC_J.i\0325112.B\013F1301.D
Lab Smp Id: 280-13610-H-1 Client Smp ID: BURKHART WW
Inj Date : 25-MAR-2011 11:22
Operator : mps Inst ID: GC_J.i
Smp Info : 280-13610-H-1
Misc Info : 280-13610-H-1
Comment : SOP: DV-GC-0025
Method : \\DenSvr03\Public\chem\GCV\GC_J.i\0325112.B\RSK-2_8PT.m
Meth Date : 25-Mar-2011 14:58 SmithM Quant Type: ESTD
Cal Date : 08-FEB-2011 18:28 Cal File: 035F3501.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175_8pt.sub
Target Version: 4.14
Processing Host: DENPC290

Concentration Formula: Amt * DF * 1 * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
=====	====	=====	=====	=====	=====	=====
1 Methane	1.604	1.601	0.003	777	0.75611	0.7561(a)
2 Ethene	Compound Not Detected.					
3 AcetyleneEthane	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: 013F1301.D

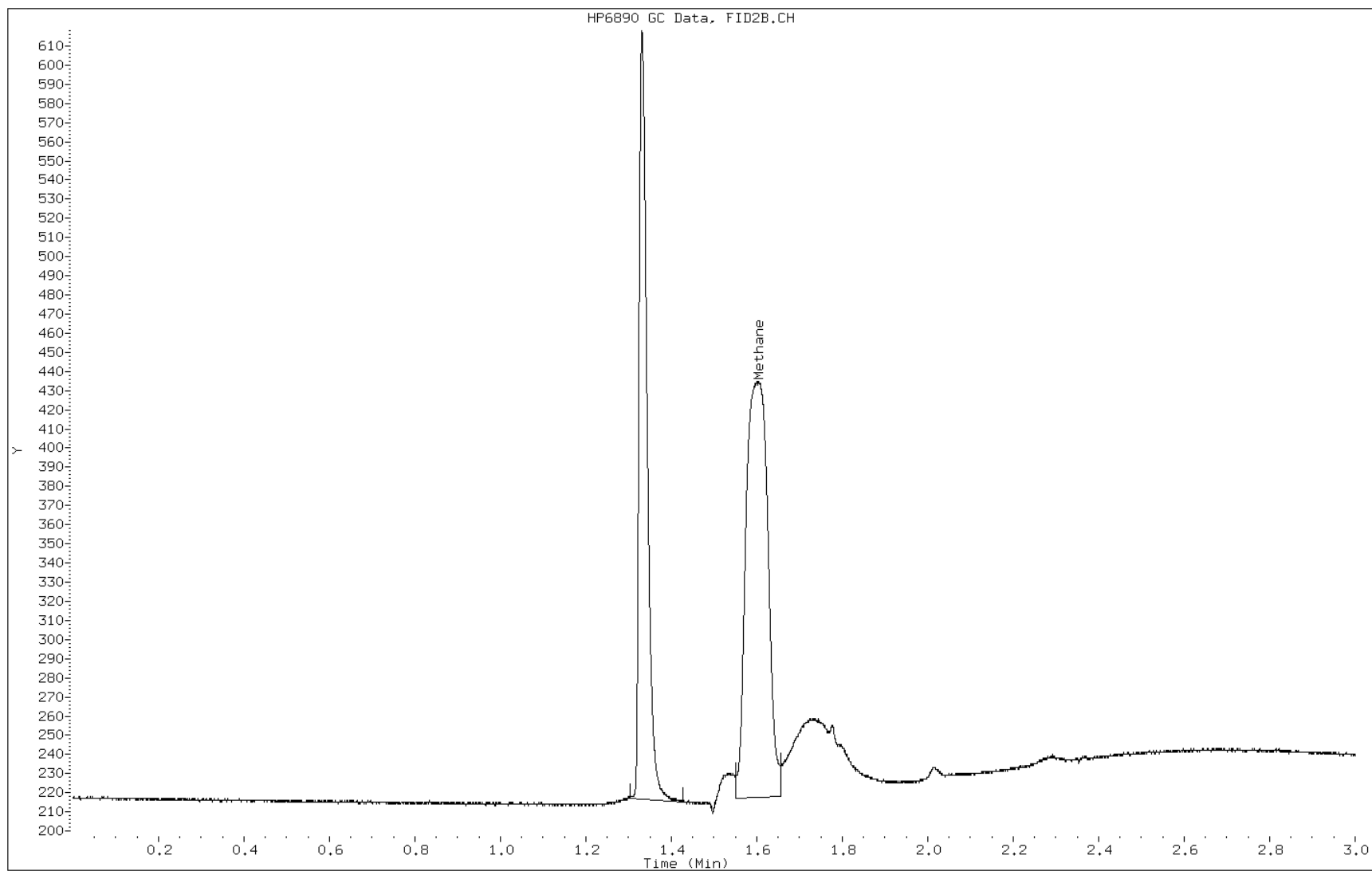
Date: 25-MAR-2011 11:22

Client ID: BURKHART WW

Instrument: GC_J.i

Sample Info: 280-13610-H-1

Operator: mps



Method 8015B – DRO

Diesel Range Organics (DRO) (GC) by
Method 8015B

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-13610-1
SDG No.: _____
Client Sample ID: BURKHART WW Lab Sample ID: 280-13610-1
Matrix: Water Lab File ID: 014B1401.D
Analysis Method: 8015B Date Collected: 03/16/2011 10:45
Extraction Method: 3510C Date Extracted: 03/17/2011 19:15
Sample wt/vol: 1045.1 (mL) Date Analyzed: 03/23/2011 14:28
Con. Extract Vol.: 1000 (uL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: RTX-1 (30.32) ID: 0.25 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 59410 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00255	C10-C36	ND		0.48	0.054

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	79		50-115

Data File: \\DenSvr03\Public\chem\GCS\GC_U.i\032311c1.B\014B1401.D
Report Date: 25-Mar-2011 15:27

TestAmerica

SW846 8015 mod.

Data file : \\DenSvr03\Public\chem\GCS\GC_U.i\032311c1.B\014B1401.D
Lab Smp Id: 280-13610-B-1-A Client Smp ID: BURKHART WW
Inj Date : 23-MAR-2011 14:28
Operator : MB Inst ID: GC_U.i
Smp Info : 280-648712,10-1
Misc Info : 280-13610-B-1-A
Comment : DEN-GC-0002
Method : \\DenSvr03\Public\chem\GCS\GC_U.i\032311c1.B\DR01.m
Meth Date : 24-Mar-2011 14:14 birdsellm Quant Type: ESTD
Cal Date : 11-MAR-2011 15:14 Cal File: 007B0701.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: C10-C36sub.sub
Target Version: 4.14
Processing Host: DENPC248

Concentration Formula: $\text{Amt} * \text{DF} * \text{Vf} / \text{Vs} * * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	Final Extract Volume (uL)
Vs	1045.100	Volume of Sample Extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds					CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====	=====
\$ 1 o-Terphenyl	5.280	5.280	0.000	46053	15.8794	15.19
S 173 C24-C36	6.717-8.910			11111	5.84202	5.590
S 3 C10-C28	0.800-7.530			13073	5.87330	5.620
S 4 C10 - C36	0.800-8.897			14670	6.58470	6.300
\$ 6 n-Octacosane	7.550	7.543	0.007	49306	20.2126	19.34

Data File: 014B1401.D

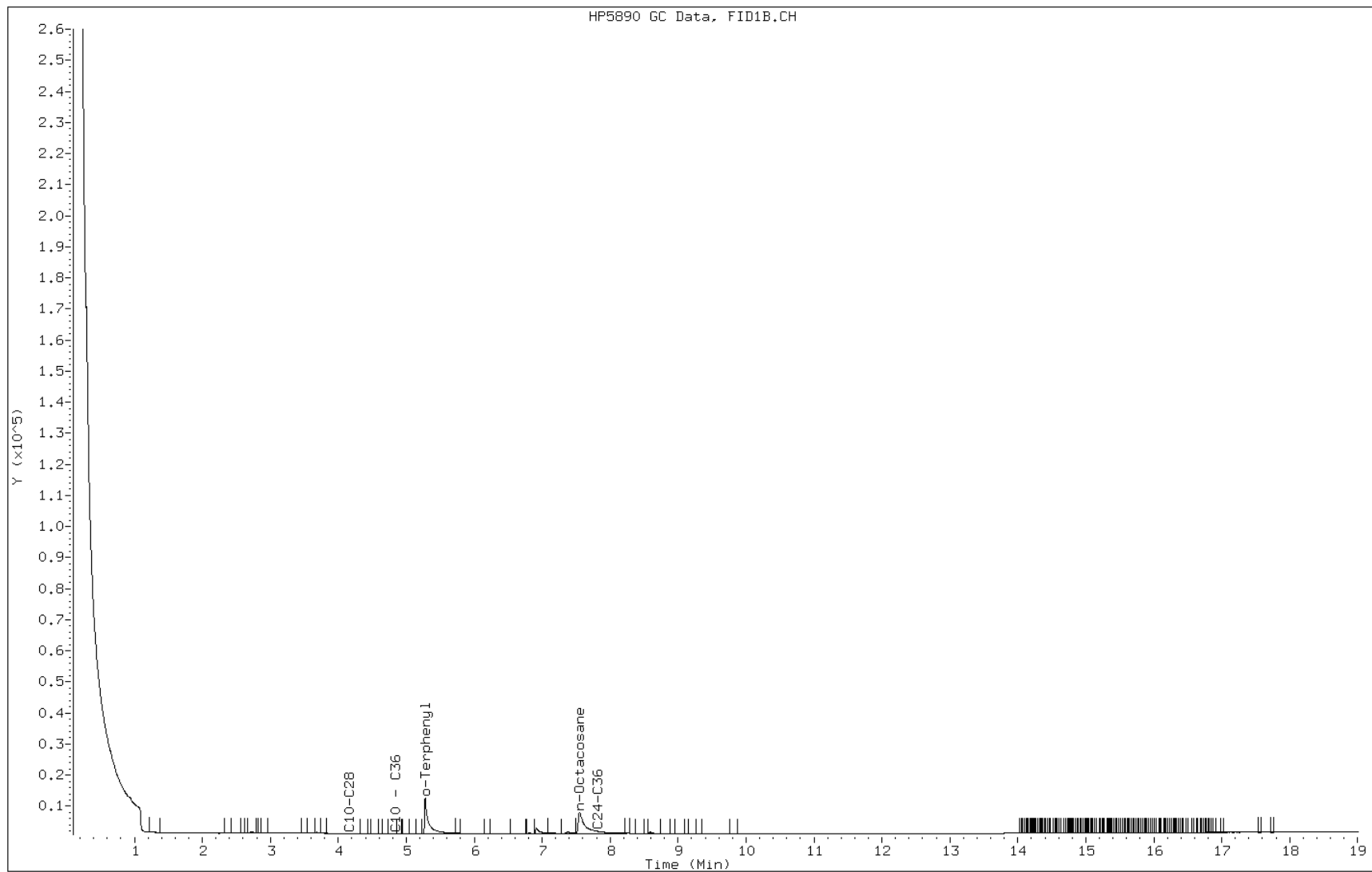
Date: 23-MAR-2011 14:28

Client ID: BURKHART WW

Instrument: GC_U.i

Sample Info: 280-648712,10-1

Operator: MB



Shipping and Receiving Documents

Login Sample Receipt Checklist

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13610-1

Login Number: 13610

List Source: TestAmerica Denver

List Number: 1

Creator: Lazarte, Noah M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	RECEIVED 2 TRIP BLANKS W/ HCI NOT LISTED ON COC.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	