

ANALYTICAL REPORT

Job Number: 280-19343-1

Job Description: COGCC Rem #4301 - Church #2

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



Approved for release.
Joseph J Egry
Project Manager I
8/31/2011 10:18 AM

Joseph J Egry
Project Manager I
joseph.egry@testamericainc.com
08/31/2011

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.

TestAmerica Laboratories, Inc.

TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002
Tel (303) 736-0100 Fax (303) 431-7171 www.testamericainc.com



Table of Contents

Cover Title Page	1
Data Summaries	4
Report Narrative	4
Manual Integration Summary	6
Sample Summary	29
Executive Summary	30
Method Summary	31
Method / Analyst Summary	32
Sample Datasheets	33
Surrogate Summary	45
QC Data Summary	48
Data Qualifiers	57
QC Association Summary	58
Lab Chronicle	60
Certification Summary	63
Organic Sample Data	64
GC/MS VOA	64
Method 8260B	64
Method 8260B Sample Data	65
GC VOA	74
Method 8015B - GRO	74
Method 8015B - GRO Sample Data	75
GC Semi VOA	89
Method 8015B - DRO	89
Method 8015B - DRO Sample Data	90
Shipping and Receiving Documents	105

Table of Contents

Client Chain of Custody	106
Sample Receipt Checklist	107

CASE NARRATIVE

Client: Colorado Oil&Gas Conservation Commission

Project: COGCC Rem #4301 - Church #2

Report Number: 280-19343-1

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 08/19/2011; the samples arrived in good condition, properly preserved, and on ice. The temperature of the coolers at receipt was 0.6°C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples CHURCH 2, SS-1 (280-19343-1), CHURCH 2, SS-2 (280-19343-2) and CHURCH 2, SS-3 (280-19343-3) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 08/23/2011.

Sample CHURCH 2, SS-1 (280-19343-1) [5X] required dilution prior to analysis due to non-target analytes. The reporting limits have been adjusted accordingly.

4-Bromofluorobenzene (Surr) failed the surrogate recovery criteria high for sample CHURCH 2, SS-1 (280-19343-1). This sample did not contain any target analytes associated to this surrogate; therefore, re-extraction and/or re-analysis was not performed.

4-Bromofluorobenzene (Surr) failed the surrogate recovery criteria high for sample CHURCH 2, SS-3 (280-19343-3). Evidence of matrix interference is present as the sample was rerun with the same result.

Naphthalene failed the recovery criteria low for the MS and MSD of sample 280-19316-14 in batch 280-82746. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other difficulties were encountered during the VOC analyses.

All other quality control parameters were within the acceptance limits.

GASOLINE RANGE ORGANICS (GRO)

Samples CHURCH 2, SS-1 (280-19343-1), CHURCH 2, SS-2 (280-19343-2) and CHURCH 2, SS-3 (280-19343-3) were analyzed for gasoline range organics (GRO) in accordance with EPA SW-846 Method 8015B - GRO. The samples were analyzed on 08/25/2011.

Sample CHURCH 2, SS-1 (280-19343-1) [5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the GRO analyses.

All quality control parameters were within the acceptance limits.

DIESEL RANGE ORGANICS

Samples CHURCH 2, SS-1 (280-19343-1), CHURCH 2, SS-2 (280-19343-2) and CHURCH 2, SS-3 (280-19343-3) were analyzed for diesel range organics in accordance with EPA SW-846 Method 8015B - DRO. The samples were analyzed on 08/24/2011, 08/25/2011 and 08/26/2011.

o-Terphenyl failed the surrogate recovery criteria low for samples CHURCH 2, SS-1 (280-19343-1), CHURCH 2, SS-2 (280-19343-2), CHURCH 2, SS-3 (280-19343-3), 280-19373-B-4-B MS, and 280-19373-B-4-C MSD due to dilution.

Diesel Range Organics [C10-C28] failed the recovery criteria high for the MS and MSD of sample 280-19373-4 in batch 280-83509 due to dilution. The associated laboratory control sample (LCS) recovery met acceptance criteria. The presence of the '4' qualifier in the report indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Samples CHURCH 2, SS-1 (280-19343-1) [10X], CHURCH 2, SS-2 (280-19343-2) [10X] and CHURCH 2, SS-3 (280-19343-3) [10X] required dilution prior to analysis. Also, due to the matrix, the samples could not be concentrated to the final method required volume.

The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the DRO analyses.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples CHURCH 2, SS-1 (280-19343-1), CHURCH 2, SS-2 (280-19343-2) and CHURCH 2, SS-3 (280-19343-3) were analyzed for percent solids in accordance with EPA SW846 3550C. The samples were analyzed on 08/22/2011.

No difficulties were encountered during the % solids analyses.

All quality control parameters were within the acceptance limits.

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-19343-1

SDG No.: _____

Instrument ID: MSV_G Analysis Batch Number: 79968Lab Sample ID: IC 280-79968/16 Client Sample ID: _____Date Analyzed: 08/02/11 18:27 Lab File ID: G6816.D GC Column: DB-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	5.90	Split Peak	reinhardt j	08/04/11 07:33

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-19343-1

SDG No.: _____

Instrument ID: MSV_G Analysis Batch Number: 82353Lab Sample ID: IC 280-82353/4 Client Sample ID: _____Date Analyzed: 08/20/11 10:23 Lab File ID: G7500.D GC Column: DB-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	5.14	Split Peak	reinhardt j	08/20/11 14:44

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-19343-1

SDG No.: _____

Instrument ID: GCV_L Analysis Batch Number: 61816Lab Sample ID: IC 280-61816/3 Client Sample ID: _____Date Analyzed: 04/11/11 16:26 Lab File ID: 116F0601.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	SmithM	04/12/11 10:11
Gasoline Range Organics (GRO) -C6-C10	13.71	Baseline Event	SmithM	04/12/11 10:11
C5-C12	14.27	Baseline Event	SmithM	04/12/11 10:11
C6-C12	15.03	Baseline Event	SmithM	04/12/11 10:11
1-Chloro-4-fluorobenzene	16.73	Baseline Event	SmithM	04/12/11 10:11
Chlorobenzene	17.03	Baseline Event	SmithM	04/12/11 10:11

Lab Sample ID: IC 280-61816/4 Client Sample ID: _____Date Analyzed: 04/11/11 17:40 Lab File ID: 118F0801.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	SmithM	04/12/11 10:12
Gasoline Range Organics (GRO) -C6-C10	13.71	Baseline Event	SmithM	04/12/11 10:12
C5-C12	14.27	Baseline Event	SmithM	04/12/11 10:12
C6-C12	15.03	Baseline Event	SmithM	04/12/11 10:12
1-Chloro-4-fluorobenzene	16.74	Baseline Event	SmithM	04/12/11 10:12
Chlorobenzene	17.04	Baseline Event	SmithM	04/12/11 10:12

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-19343-1

SDG No.: _____

Instrument ID: GCV_L Analysis Batch Number: 61816Lab Sample ID: ICRT 280-61816/5 Client Sample ID: _____Date Analyzed: 04/11/11 18:18 Lab File ID: 119F0901.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	SmithM	04/12/11 10:12
Gasoline Range Organics (GRO) -C6-C10	13.71	Baseline Event	SmithM	04/12/11 10:13
C5-C12	14.27	Baseline Event	SmithM	04/12/11 10:13
C6-C12	15.03	Baseline Event	SmithM	04/12/11 10:13
1-Chloro-4-fluorobenzene	16.74	Baseline Event	SmithM	04/12/11 10:12
Chlorobenzene	17.04	Baseline Event	SmithM	04/12/11 10:12

Lab Sample ID: IC 280-61816/6 Client Sample ID: _____Date Analyzed: 04/11/11 18:55 Lab File ID: 120F1001.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	SmithM	04/12/11 10:13
Gasoline Range Organics (GRO) -C6-C10	13.71	Baseline Event	SmithM	04/12/11 10:13
C5-C12	14.27	Baseline Event	SmithM	04/12/11 10:13
C6-C12	15.03	Baseline Event	SmithM	04/12/11 10:13
1-Chloro-4-fluorobenzene	16.74	Baseline Event	SmithM	04/12/11 10:13
Chlorobenzene	17.04	Baseline Event	SmithM	04/12/11 10:13

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-19343-1

SDG No.: _____

Instrument ID: GCV_L Analysis Batch Number: 61816Lab Sample ID: IC 280-61816/7 Client Sample ID: _____Date Analyzed: 04/11/11 19:32 Lab File ID: 121F1101.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	SmithM	04/12/11 10:13
Gasoline Range Organics (GRO) -C6-C10	13.71	Baseline Event	SmithM	04/12/11 10:13
C5-C12	14.27	Baseline Event	SmithM	04/12/11 10:13
C6-C12	15.03	Baseline Event	SmithM	04/12/11 10:13
1-Chloro-4-fluorobenzene	16.74	Baseline Event	SmithM	04/12/11 10:13
Chlorobenzene	17.03	Baseline Event	SmithM	04/12/11 10:13

Lab Sample ID: IC 280-61816/8 Client Sample ID: _____Date Analyzed: 04/11/11 20:10 Lab File ID: 122F1201.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	SmithM	04/12/11 10:15
1-Chloro-4-fluorobenzene	16.74	Baseline Event	SmithM	04/12/11 10:15
Chlorobenzene	17.03	Baseline Event	SmithM	04/12/11 10:15

Lab Sample ID: ICV 280-61816/9 Client Sample ID: _____Date Analyzed: 04/11/11 21:23 Lab File ID: 124F1401.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.09	Baseline Event	SmithM	04/12/11 10:22
Gasoline	13.71	Baseline Event	SmithM	04/12/11 10:22
Gasoline Range Organics (GRO) -C6-C10	13.71	Baseline Event	SmithM	04/12/11 10:22
C5-C12	14.27	Baseline Event	SmithM	04/12/11 10:22
C6-C12	15.03	Baseline Event	SmithM	04/12/11 10:22
Chlorobenzene	17.02	Baseline Event	SmithM	04/12/11 10:22

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-19343-1

SDG No.: _____

Instrument ID: GCV_L Analysis Batch Number: 83248Lab Sample ID: CCVRT 280-83248/2 Client Sample ID: _____Date Analyzed: 08/25/11 10:53 Lab File ID: 126F0201.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.10	Baseline Event	byla	08/29/11 00:00
Gasoline Range Organics (GRO) -C6-C10	13.67	Baseline Event	byla	08/29/11 00:00
Chlorobenzene	17.03	Baseline Event	byla	08/29/11 00:00

Lab Sample ID: LCS 280-82994/1-A Client Sample ID: _____Date Analyzed: 08/25/11 11:53 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	12.12	Baseline Event	byla	08/29/11 00:00
Gasoline Range Organics (GRO) -C6-C10	13.67	Baseline Event	byla	08/29/11 00:00

Lab Sample ID: LCSD 280-82994/2-A Client Sample ID: _____Date Analyzed: 08/25/11 12:30 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	12.13	Baseline Event	byla	08/29/11 00:00
Gasoline Range Organics (GRO) -C6-C10	13.67	Baseline Event	byla	08/29/11 00:00

Lab Sample ID: 280-19343-1 Client Sample ID: CHURCH 2, SS-1Date Analyzed: 08/25/11 14:12 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	12.16	Baseline Event	mooret	08/26/11 11:33
Gasoline Range Organics (GRO) -C6-C10	13.67	Baseline Event	mooret	08/26/11 11:33

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-19343-1

SDG No.: _____

Instrument ID: GCV_L Analysis Batch Number: 83248Lab Sample ID: 280-19343-2 Client Sample ID: CHURCH 2, SS-2Date Analyzed: 08/25/11 14:50 Lab File ID: 131F0701.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Gasoline Range Organics (GRO) -C6-C10	13.67	Baseline Event	mooret	08/26/11 11:34

Lab Sample ID: 280-19343-2 MS Client Sample ID: CHURCH 2, SS-2 MSDate Analyzed: 08/25/11 15:27 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	12.15	Baseline Event	mooret	08/26/11 11:35

Lab Sample ID: 280-19343-2 MSD Client Sample ID: CHURCH 2, SS-2 MSDDate Analyzed: 08/25/11 16:05 Lab File ID: 201F0901.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.17	Baseline Event	mooret	08/26/11 11:35

Lab Sample ID: 280-19343-3 Client Sample ID: CHURCH 2, SS-3Date Analyzed: 08/25/11 16:43 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	12.17	Baseline Event	mooret	08/26/11 00:00
Gasoline Range Organics (GRO) -C6-C10	13.67	Baseline Event	mooret	08/26/11 11:36

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-19343-1

SDG No.: _____

Instrument ID: GCV_L Analysis Batch Number: 83248Lab Sample ID: CCV 280-83248/11 Client Sample ID: _____Date Analyzed: 08/25/11 17:21 Lab File ID: 203F1101.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.17	Baseline Event	mooret	08/26/11 08:25
Chlorobenzene	17.09	Baseline Event	mooret	08/26/11 08:25

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-19343-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 76566Lab Sample ID: IC 280-76566/1 Client Sample ID: _____Date Analyzed: 07/13/11 21:07 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	3.74	Baseline Event	birdsellm	07/14/11 08:32
C10-C24	3.97	Baseline Event	birdsellm	07/14/11 08:32
C10-C25	4.08	Baseline Event	birdsellm	07/14/11 08:32
Diesel Range Organics [C10-C28]	4.39	Baseline Event	birdsellm	07/14/11 08:32
C8-C34	4.55	Baseline Event	birdsellm	07/14/11 00:00
C10-C32	4.75	Baseline Event	birdsellm	07/14/11 08:32
C10-C36	4,560.53	Baseline Event	birdsellm	07/14/11 08:32

Lab Sample ID: IC 280-76566/2 Client Sample ID: _____Date Analyzed: 07/13/11 21:35 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	3.74	Baseline Event	birdsellm	07/15/11 08:54
C10-C24	3.97	Baseline Event	birdsellm	07/15/11 08:54
C10-C25	4.08	Baseline Event	birdsellm	07/15/11 08:54
Diesel Range Organics [C10-C28]	4.39	Baseline Event	birdsellm	07/15/11 08:54
C8-C34	4.55	Baseline Event	birdsellm	07/15/11 08:54
C10-C32	4.75	Baseline Event	birdsellm	07/15/11 08:54
C10-C36	5.09	Baseline Event	birdsellm	07/15/11 08:54
o-Terphenyl	5.46	Baseline Event	birdsellm	07/15/11 08:54
n-Octacosane	7.71	Baseline Event	birdsellm	07/15/11 08:54

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-19343-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 76566Lab Sample ID: IC 280-76566/3 Client Sample ID: _____Date Analyzed: 07/13/11 22:03 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	3.74	Baseline Event	birdsellm	07/14/11 08:54
C10-C24	3.97	Baseline Event	birdsellm	07/14/11 08:54
C10-C25	4.08	Baseline Event	birdsellm	07/14/11 08:54
Diesel Range Organics [C10-C28]	4.39	Baseline Event	birdsellm	07/14/11 08:54
C8-C34	4.55	Baseline Event	birdsellm	07/14/11 08:54
C10-C32	4.75	Baseline Event	birdsellm	07/14/11 08:54
o-Terphenyl	5.45	Baseline Event	birdsellm	07/14/11 08:54
C10-C36	4,560.53	Baseline Event	birdsellm	07/14/11 08:54

Lab Sample ID: ICRT 280-76566/4 Client Sample ID: _____Date Analyzed: 07/13/11 22:31 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	3.74	Baseline Event	birdsellm	07/14/11 08:54
C10-C24	3.97	Baseline Event	birdsellm	07/14/11 08:54
C10-C25	4.08	Baseline Event	birdsellm	07/14/11 08:54
Diesel Range Organics [C10-C28]	4.39	Baseline Event	birdsellm	07/14/11 08:54
C8-C34	4.55	Baseline Event	birdsellm	07/14/11 08:54
C10-C32	4.75	Baseline Event	birdsellm	07/14/11 08:54
o-Terphenyl	5.45	Baseline Event	birdsellm	07/14/11 08:54
C10-C36	4,560.53	Baseline Event	birdsellm	07/14/11 08:54

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-19343-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 76566Lab Sample ID: IC 280-76566/5 Client Sample ID: _____Date Analyzed: 07/13/11 22:58 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	3.74	Baseline Event	birdsellm	07/14/11 08:54
C10-C24	3.97	Baseline Event	birdsellm	07/14/11 08:54
C10-C25	4.08	Baseline Event	birdsellm	07/14/11 08:54
Diesel Range Organics [C10-C28]	4.39	Baseline Event	birdsellm	07/14/11 08:54
C8-C34	4.55	Baseline Event	birdsellm	07/14/11 08:54
C10-C32	4.75	Baseline Event	birdsellm	07/14/11 08:54
o-Terphenyl	5.44	Baseline Event	birdsellm	07/14/11 08:54
C10-C36	4,560.53	Baseline Event	birdsellm	07/14/11 08:54

Lab Sample ID: IC 280-76566/6 Client Sample ID: _____Date Analyzed: 07/13/11 23:26 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	3.74	Baseline Event	birdsellm	07/14/11 08:54
C10-C24	3.97	Baseline Event	birdsellm	07/14/11 08:54
C10-C25	4.08	Baseline Event	birdsellm	07/14/11 08:54
Diesel Range Organics [C10-C28]	4.39	Baseline Event	birdsellm	07/14/11 08:54
C8-C34	4.55	Baseline Event	birdsellm	07/14/11 08:54
C10-C32	4.75	Baseline Event	birdsellm	07/14/11 08:54
o-Terphenyl	5.44	Baseline Event	birdsellm	07/14/11 08:54
C10-C36	4,560.53	Baseline Event	birdsellm	07/14/11 08:54

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-19343-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 76566Lab Sample ID: IC 280-76566/7 Client Sample ID: _____Date Analyzed: 07/13/11 23:54 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	3.74	Baseline Event	birdsellm	07/14/11 08:55
C10-C24	3.97	Baseline Event	birdsellm	07/14/11 08:55
C10-C25	4.08	Baseline Event	birdsellm	07/14/11 08:55
Diesel Range Organics [C10-C28]	4.39	Baseline Event	birdsellm	07/14/11 08:55
C8-C34	4.55	Baseline Event	birdsellm	07/14/11 08:55
C10-C32	4.75	Baseline Event	birdsellm	07/14/11 08:55
o-Terphenyl	5.44	Baseline Event	birdsellm	07/14/11 08:55
C10-C36	4,560.53	Baseline Event	birdsellm	07/14/11 08:55

Lab Sample ID: ICV 280-76566/8 Client Sample ID: _____Date Analyzed: 07/14/11 00:22 Lab File ID: 011B1101.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	3.74	Baseline Event	birdsellm	07/14/11 09:03
C10-C24	3.97	Baseline Event	birdsellm	07/14/11 09:03
C10-C25	4.08	Baseline Event	birdsellm	07/14/11 09:03
Diesel Range Organics [C10-C28]	4.39	Baseline Event	birdsellm	07/14/11 09:03
C8-C34	4.55	Baseline Event	birdsellm	07/14/11 09:03
C10-C32	4.75	Baseline Event	birdsellm	07/14/11 09:03
o-Terphenyl	5.44	Baseline Event	birdsellm	07/14/11 09:03
n-Octacosane	7.70	Baseline Event	birdsellm	07/14/11 09:03
C10-C36	4,560.53	Baseline Event	birdsellm	07/14/11 09:03

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-19343-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 76566Lab Sample ID: IC 280-76566/9 Client Sample ID: _____Date Analyzed: 07/14/11 00:49 Lab File ID: 012B1201.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C22-C36	7.77	Baseline Event	birdsellm	07/14/11 09:52
Motor Oil Range Organics [C24-C36]	8.00	Baseline Event	birdsellm	07/14/11 09:52
C25-C36	8.11	Baseline Event	birdsellm	07/14/11 09:52

Lab Sample ID: IC 280-76566/10 Client Sample ID: _____Date Analyzed: 07/14/11 01:17 Lab File ID: 013B1301.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C22-C36	7.77	Baseline Event	birdsellm	07/14/11 09:52
Motor Oil Range Organics [C24-C36]	8.00	Baseline Event	birdsellm	07/14/11 09:52
C25-C36	8.11	Baseline Event	birdsellm	07/14/11 09:52

Lab Sample ID: IC 280-76566/11 Client Sample ID: _____Date Analyzed: 07/14/11 01:45 Lab File ID: 014B1401.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C22-C36	7.77	Baseline Event	birdsellm	07/14/11 09:52
Motor Oil Range Organics [C24-C36]	8.00	Baseline Event	birdsellm	07/14/11 09:52
C25-C36	8.11	Baseline Event	birdsellm	07/14/11 09:52

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-19343-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 76566Lab Sample ID: ICRT 280-76566/17 Client Sample ID: _____Date Analyzed: 07/14/11 02:12 Lab File ID: 015B1501.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C22-C36	7.77	Baseline Event	birdsellm	07/14/11 09:50
Motor Oil Range Organics [C24-C36]	8.00	Baseline Event	birdsellm	07/14/11 09:50
C25-C36	8.11	Baseline Event	birdsellm	07/14/11 09:50

Lab Sample ID: IC 280-76566/13 Client Sample ID: _____Date Analyzed: 07/14/11 02:40 Lab File ID: 016B1601.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C22-C36	7.77	Baseline Event	birdsellm	07/14/11 09:53
Motor Oil Range Organics [C24-C36]	8.00	Baseline Event	birdsellm	07/14/11 09:53
C25-C36	8.11	Baseline Event	birdsellm	07/14/11 09:53

Lab Sample ID: IC 280-76566/14 Client Sample ID: _____Date Analyzed: 07/14/11 03:08 Lab File ID: 017B1701.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C22-C36	7.77	Baseline Event	birdsellm	07/14/11 09:55
Motor Oil Range Organics [C24-C36]	8.00	Baseline Event	birdsellm	07/14/11 09:55
C25-C36	8.11	Baseline Event	birdsellm	07/14/11 09:55

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-19343-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 76566Lab Sample ID: IC 280-76566/15 Client Sample ID: _____Date Analyzed: 07/14/11 03:35 Lab File ID: 018B1801.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C22-C36	7.77	Baseline Event	birdsellm	07/14/11 09:55
Motor Oil Range Organics [C24-C36]	8.00	Baseline Event	birdsellm	07/14/11 09:55
C25-C36	8.11	Baseline Event	birdsellm	07/14/11 09:55

Lab Sample ID: ICV 280-76566/16 Client Sample ID: _____Date Analyzed: 07/14/11 04:03 Lab File ID: 019B1901.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C22-C32	7.43	Baseline Event	birdsellm	07/14/11 09:56
C22-C36	7.77	Baseline Event	birdsellm	07/14/11 09:56
Motor Oil Range Organics [C24-C36]	8.00	Baseline Event	birdsellm	07/14/11 09:56
Over C24-C36	8.02	Baseline Event	birdsellm	07/14/11 09:56
C25-C36	8.11	Baseline Event	birdsellm	07/14/11 09:56

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-19343-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 83503Lab Sample ID: CCVRT 280-83503/2 Client Sample ID: _____Date Analyzed: 08/24/11 21:56 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-C25	3.96	Baseline Event	birdsellm	08/29/11 11:52
Diesel Range Organics [C10-C28]	4.26	Baseline Event	birdsellm	08/29/11 11:52
o-Terphenyl	5.36	Baseline Event	birdsellm	08/29/11 11:52
Motor Oil Range Organics [C24-C36]	7.90	Baseline Event	birdsellm	08/29/11 11:52
C25-C36	8.00	Baseline Event	birdsellm	08/29/11 11:52

Lab Sample ID: CCV 280-83503/3 Client Sample ID: _____Date Analyzed: 08/24/11 22:23 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-C25	3.96	Baseline Event	birdsellm	08/29/11 11:55
Diesel Range Organics [C10-C28]	4.26	Baseline Event	birdsellm	08/29/11 00:00
Motor Oil Range Organics [C24-C36]	7.90	Baseline Event	birdsellm	08/29/11 11:55
C25-C36	8.00	Baseline Event	birdsellm	08/29/11 11:55

Lab Sample ID: LCS 280-82726/2-A Client Sample ID: _____Date Analyzed: 08/24/11 23:19 Lab File ID: 007B0701.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]	4.26	Baseline Event	birdsellm	08/29/11 11:58
o-Terphenyl	5.35	Baseline Event	birdsellm	08/29/11 11:58
Motor Oil Range Organics [C24-C36]	7.90	Baseline Event	birdsellm	08/29/11 11:58

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-19343-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 83503Lab Sample ID: 280-19343-1 Client Sample ID: CHURCH 2, SS-1Date Analyzed: 08/24/11 23:46 Lab File ID: 008B0801.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]	4.26	Baseline Event	birdsellm	
Motor Oil Range Organics [C24-C36]	7.90	Baseline Event	birdsellm	08/29/11 11:58

Lab Sample ID: 280-19343-3 Client Sample ID: CHURCH 2, SS-3Date Analyzed: 08/25/11 00:41 Lab File ID: 010B1001.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]	4.26	Baseline Event	birdsellm	
Motor Oil Range Organics [C24-C36]	7.90	Baseline Event	birdsellm	08/29/11 11:58

Lab Sample ID: CCV 280-83503/13 Client Sample ID: _____Date Analyzed: 08/25/11 05:14 Lab File ID: 020B2001.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C25	3.96	Baseline Event	birdsellm	08/29/11 11:55
Diesel Range Organics [C10-C28]	4.26	Baseline Event	birdsellm	08/29/11 11:55
o-Terphenyl	5.36	Baseline Event	birdsellm	08/29/11 11:55
Motor Oil Range Organics [C24-C36]	7.90	Baseline Event	birdsellm	08/29/11 11:55
C25-C36	8.00	Baseline Event	birdsellm	08/29/11 11:55

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-19343-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 83503Lab Sample ID: CCV 280-83503/14 Client Sample ID: _____Date Analyzed: 08/25/11 05:42 Lab File ID: 021B2101.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C25	3.96	Baseline Event	birdsellm	08/29/11 11:56
Diesel Range Organics [C10-C28]	4.26	Baseline Event	birdsellm	08/29/11 00:00
Motor Oil Range Organics [C24-C36]	7.90	Baseline Event	birdsellm	08/29/11 11:56
C25-C36	8.00	Baseline Event	birdsellm	08/29/11 11:56

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-19343-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 83509Lab Sample ID: CCVRT 280-83509/2 Client Sample ID: _____Date Analyzed: 08/26/11 11:58 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	3.68	Baseline Event	pavlakoa	08/28/11 12:13
C10-C24	3.87	Baseline Event	pavlakoa	08/28/11 12:13
C10-C25	3.96	Baseline Event	pavlakoa	08/28/11 12:13
Diesel Range Organics [C10-C28]	4.27	Baseline Event	pavlakoa	08/28/11 12:13
C10-C36	4.96	Baseline Event	pavlakoa	08/28/11 12:13
o-Terphenyl	5.36	Baseline Event	pavlakoa	08/28/11 12:13

Lab Sample ID: CCV 280-83509/3 Client Sample ID: _____Date Analyzed: 08/26/11 12:25 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-C25	3.96	Baseline Event	birdsellm	08/29/11 12:05
Diesel Range Organics [C10-C28]	4.27	Baseline Event	birdsellm	08/29/11 00:00
Motor Oil Range Organics [C24-C36]	7.91	Baseline Event	birdsellm	08/29/11 12:05
C25-C36	8.00	Baseline Event	birdsellm	08/29/11 12:05

Lab Sample ID: 280-19343-2 Client Sample ID: CHURCH 2, SS-2Date Analyzed: 08/26/11 13:21 Lab File ID: 007B0701.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]	4.27	Baseline Event	birdsellm	
Motor Oil Range Organics [C24-C36]	7.91	Baseline Event	birdsellm	08/29/11 12:09

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-19343-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 83509Lab Sample ID: 280-19373-B-4-B MS Client Sample ID: _____Date Analyzed: 08/26/11 14:45 Lab File ID: 010B1001.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]	4.27	Baseline Event	birdsellm	
Motor Oil Range Organics [C24-C36]	7.91	Baseline Event	birdsellm	08/29/11 12:16

Lab Sample ID: 280-19373-B-4-C MSD Client Sample ID: _____Date Analyzed: 08/26/11 15:13 Lab File ID: 011B1101.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]	4.27	Baseline Event	birdsellm	
Motor Oil Range Organics [C24-C36]	7.91	Baseline Event	birdsellm	08/29/11 12:16

Lab Sample ID: CCV 280-83509/9 Client Sample ID: _____Date Analyzed: 08/26/11 15:41 Lab File ID: 012B1201.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C25	3.96	Baseline Event	birdsellm	08/29/11 12:05
Diesel Range Organics [C10-C28]	4.27	Baseline Event	birdsellm	08/29/11 12:05
o-Terphenyl	5.36	Baseline Event	birdsellm	08/29/11 12:05
Motor Oil Range Organics [C24-C36]	7.91	Baseline Event	birdsellm	08/29/11 12:05
C25-C36	8.00	Baseline Event	birdsellm	08/29/11 12:05

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-19343-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 83509Lab Sample ID: CCV 280-83509/10 Client Sample ID: _____Date Analyzed: 08/26/11 16:09 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-C25	3.96	Baseline Event	birdsellm	08/29/11 12:07
Diesel Range Organics [C10-C28]	4.27	Baseline Event	birdsellm	08/29/11 00:00
Motor Oil Range Organics [C24-C36]	7.91	Baseline Event	birdsellm	08/29/11 12:07
C25-C36	8.00	Baseline Event	birdsellm	08/29/11 12:07

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-19343-1

SDG No.: _____

Instrument ID: MSV_G Analysis Batch Number: 79968

Lab Sample ID: IC 280-79968/16 Client Sample ID: _____

Date Analyzed: 08/02/11 18:27 Lab File ID: G6816.D GC Column: DB-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION	
		REASON	ANALYST
Carbon disulfide	5.90 Split Peak	reinhardt j	08/04/11 07:33

Handwritten: 12-03/02/11

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-19343-1
SDG No.:
Instrument ID: MSV_G Analysis Batch Number: 82353
Lab Sample ID: IC 280-82353/4 Client Sample ID:
Date Analyzed: 08/20/11 10:23 Lab File ID: G7500.D GC Column: DB-624 ID: 0.32 (mm)

8/20/11

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION	
		REASON	ANALYST
Ethanol	5.14 Split Peak	reinhardt j	08/20/11 14:44

SAMPLE SUMMARY

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-19343-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-19343-1	CHURCH 2, SS-1	Solid	08/18/2011 1235	08/19/2011 1100
280-19343-2	CHURCH 2, SS-2	Solid	08/18/2011 1245	08/19/2011 1100
280-19343-3	CHURCH 2, SS-3	Solid	08/18/2011 1255	08/19/2011 1100

EXECUTIVE SUMMARY - Detections

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-19343-1

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-19343-1	CHURCH 2, SS-1					
Gasoline Range Organics (GRO)-C6-C10		130		6.0	mg/Kg	8015B
Diesel Range Organics [C10-C28]		15000		170	mg/Kg	8015B
Motor Oil Range Organics [C24-C36]		12000		510	mg/Kg	8015B
Percent Moisture		11		0.10	%	Moisture
280-19343-2	CHURCH 2, SS-2					
Diesel Range Organics [C10-C28]		680		43	mg/Kg	8015B
Motor Oil Range Organics [C24-C36]		740		130	mg/Kg	8015B
Percent Moisture		6.6		0.10	%	Moisture
280-19343-3	CHURCH 2, SS-3					
Diesel Range Organics [C10-C28]		7400		86	mg/Kg	8015B
Motor Oil Range Organics [C24-C36]		4400		260	mg/Kg	8015B
Percent Moisture		11		0.10	%	Moisture

METHOD SUMMARY

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-19343-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds (GC/MS) Purge and Trap	TAL DEN	SW846 8260B	SW846 5030B
Gasoline Range Organics - (GC) Purge and Trap	TAL DEN	SW846 8015B	SW846 5030B
Diesel Range Organics (DRO) (GC) Microwave Extraction	TAL DEN	SW846 8015B	SW846 3546
Percent Moisture	TAL DEN	EPA Moisture	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

EPA = US Environmental Protection Agency

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

METHOD / ANALYST SUMMARY

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-19343-1

Method	Analyst	Analyst ID
SW846 8260B	Jablonski, Kayla A	KAJ
SW846 8015B	Moore, Tegan E	TEM
SW846 8015B	Birdsell, Matthew R	MRB
EPA Moisture	Berry III, Paul B	PBB

Analytical Data

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-19343-1

Client Sample ID: CHURCH 2, SS-1

Lab Sample ID: 280-19343-1

Date Sampled: 08/18/2011 1235

Client Matrix: Solid

% Moisture: 11.0

Date Received: 08/19/2011 1100

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 280-82746

Instrument ID: MSV_G

Prep Method: 5030B

Prep Batch: 280-82646

Lab File ID: G7627.D

Dilution: 1.0

Initial Weight/Volume: 1.318 g

Analysis Date: 08/23/2011 1843

Final Weight/Volume: 5 mL

Prep Date: 08/23/2011 0600

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Benzene		ND		21
Ethylbenzene		ND		21
m-Xylene & p-Xylene		ND		11
Naphthalene		ND		21
o-Xylene		ND		11
Toluene		ND		21
Xylenes, Total		ND		21

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	82		58 - 140
4-Bromofluorobenzene (Surr)	670	E X	76 - 127
Dibromofluoromethane (Surr)	92		75 - 121
Toluene-d8 (Surr)	113		80 - 126

Analytical Data

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-19343-1

Client Sample ID: CHURCH 2, SS-2

Lab Sample ID: 280-19343-2

Date Sampled: 08/18/2011 1245

Client Matrix: Solid

% Moisture: 6.6

Date Received: 08/19/2011 1100

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-82746	Instrument ID:	MSV_G
Prep Method:	5030B	Prep Batch:	280-82646	Lab File ID:	G7625.D
Dilution:	1.0			Initial Weight/Volume:	5.456 g
Analysis Date:	08/23/2011 1759			Final Weight/Volume:	5 mL
Prep Date:	08/23/2011 0600				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Benzene		ND		4.9
Ethylbenzene		ND		4.9
m-Xylene & p-Xylene		ND		2.5
Naphthalene		ND		4.9
o-Xylene		ND		2.5
Toluene		ND		4.9
Xylenes, Total		ND		4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	85		58 - 140
4-Bromofluorobenzene (Surr)	88		76 - 127
Dibromofluoromethane (Surr)	88		75 - 121
Toluene-d8 (Surr)	87		80 - 126

Analytical Data

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-19343-1

Client Sample ID: CHURCH 2, SS-3

Lab Sample ID: 280-19343-3

Date Sampled: 08/18/2011 1255

Client Matrix: Solid

% Moisture: 10.7

Date Received: 08/19/2011 1100

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B

Analysis Batch: 280-82746

Instrument ID: MSV_G

Prep Method: 5030B

Prep Batch: 280-82646

Lab File ID: G7628.D

Dilution: 1.0

Initial Weight/Volume: 5.318 g

Analysis Date: 08/23/2011 1906

Final Weight/Volume: 5 mL

Prep Date: 08/23/2011 0600

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Benzene		ND		5.3
Ethylbenzene		ND		5.3
m-Xylene & p-Xylene		ND		2.6
Naphthalene		ND		5.3
o-Xylene		ND		2.6
Toluene		ND		5.3
Xylenes, Total		ND		5.3

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	78		58 - 140
4-Bromofluorobenzene (Surr)	130	X	76 - 127
Dibromofluoromethane (Surr)	91		75 - 121
Toluene-d8 (Surr)	120		80 - 126

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-19343-1

Client Sample ID: CHURCH 2, SS-1

Lab Sample ID: 280-19343-1

Date Sampled: 08/18/2011 1235

Client Matrix: Solid

Date Received: 08/19/2011 1100

8015B Gasoline Range Organics - (GC)

Analysis Method:	8015B	Analysis Batch:	280-83248	Instrument ID:	GCV_L
Prep Method:	5030B	Prep Batch:	280-82994	Initial Weight/Volume:	10.02 g
Dilution:	5.0			Final Weight/Volume:	500 mL
Analysis Date:	08/25/2011 1412			Injection Volume:	5 mL
Prep Date:	08/25/2011 0918			Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C6-C10		130		6.0

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	122		77 - 123

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-19343-1

Client Sample ID: CHURCH 2, SS-2

Lab Sample ID: 280-19343-2

Date Sampled: 08/18/2011 1245

Client Matrix: Solid

Date Received: 08/19/2011 1100

8015B Gasoline Range Organics - (GC)

Analysis Method:	8015B	Analysis Batch:	280-83248	Instrument ID:	GCV_L
Prep Method:	5030B	Prep Batch:	280-82994	Initial Weight/Volume:	10.41 g
Dilution:	1.0			Final Weight/Volume:	500 mL
Analysis Date:	08/25/2011 1450			Injection Volume:	5 mL
Prep Date:	08/25/2011 0918			Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C6-C10		ND		1.2

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	90		77 - 123

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-19343-1

Client Sample ID: CHURCH 2, SS-3

Lab Sample ID: 280-19343-3

Date Sampled: 08/18/2011 1255

Client Matrix: Solid

Date Received: 08/19/2011 1100

8015B Gasoline Range Organics - (GC)

Analysis Method:	8015B	Analysis Batch:	280-83248	Instrument ID:	GCV_L
Prep Method:	5030B	Prep Batch:	280-82994	Initial Weight/Volume:	10.08 g
Dilution:	1.0			Final Weight/Volume:	500 mL
Analysis Date:	08/25/2011 1643			Injection Volume:	5 mL
Prep Date:	08/25/2011 0918			Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C6-C10		ND		1.2

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	78		77 - 123

Analytical Data

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-19343-1

Client Sample ID: CHURCH 2, SS-1

Lab Sample ID: 280-19343-1

Date Sampled: 08/18/2011 1235

Client Matrix: Solid

% Moisture: 11.0

Date Received: 08/19/2011 1100

8015B Diesel Range Organics (DRO) (GC)

Analysis Method: 8015B

Analysis Batch: 280-83503

Instrument ID: GCS_U

Prep Method: 3546

Prep Batch: 280-82726

Initial Weight/Volume: 31.7 g

Dilution: 10

Final Weight/Volume: 4000 uL

Analysis Date: 08/24/2011 2346

Injection Volume: 1 uL

Prep Date: 08/23/2011 2100

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		15000		170
Motor Oil Range Organics [C24-C36]		12000		510

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	0	D	49 - 115

Analytical Data

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-19343-1

Client Sample ID: CHURCH 2, SS-2

Lab Sample ID: 280-19343-2

Date Sampled: 08/18/2011 1245

Client Matrix: Solid

% Moisture: 6.6

Date Received: 08/19/2011 1100

8015B Diesel Range Organics (DRO) (GC)

Analysis Method: 8015B

Analysis Batch: 280-83509

Instrument ID: GCS_U

Prep Method: 3546

Prep Batch: 280-82726

Initial Weight/Volume: 30.2 g

Dilution: 10

Final Weight/Volume: 1000 uL

Analysis Date: 08/26/2011 1321

Injection Volume: 1 uL

Prep Date: 08/23/2011 2100

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		680		43
Motor Oil Range Organics [C24-C36]		740		130

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	0	D	49 - 115

Analytical Data

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-19343-1

Client Sample ID: CHURCH 2, SS-3

Lab Sample ID: 280-19343-3

Date Sampled: 08/18/2011 1255

Client Matrix: Solid

% Moisture: 10.7

Date Received: 08/19/2011 1100

8015B Diesel Range Organics (DRO) (GC)

Analysis Method: 8015B

Analysis Batch: 280-83503

Instrument ID: GCS_U

Prep Method: 3546

Prep Batch: 280-82726

Initial Weight/Volume: 31.2 g

Dilution: 10

Final Weight/Volume: 2000 uL

Analysis Date: 08/25/2011 0041

Injection Volume: 1 uL

Prep Date: 08/23/2011 2100

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		7400		86
Motor Oil Range Organics [C24-C36]		4400		260

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	0	D	49 - 115

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-19343-1

General Chemistry

Client Sample ID: CHURCH 2, SS-1

Lab Sample ID: 280-19343-1

Date Sampled: 08/18/2011 1235

Client Matrix: Solid

Date Received: 08/19/2011 1100

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	11		%	0.10	1.0	Moisture
Analysis Batch: 280-82379		Analysis Date: 08/22/2011 0832				DryWt Corrected: N

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-19343-1

General Chemistry

Client Sample ID: CHURCH 2, SS-2

Lab Sample ID: 280-19343-2

Date Sampled: 08/18/2011 1245

Client Matrix: Solid

Date Received: 08/19/2011 1100

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	6.6		%	0.10	1.0	Moisture
Analysis Batch: 280-82379		Analysis Date: 08/22/2011 0832				DryWt Corrected: N

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-19343-1

General Chemistry

Client Sample ID: CHURCH 2, SS-3

Lab Sample ID: 280-19343-3

Date Sampled: 08/18/2011 1255

Client Matrix: Solid

Date Received: 08/19/2011 1100

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	11		%	0.10	1.0	Moisture
Analysis Batch: 280-82379		Analysis Date: 08/22/2011 0832				DryWt Corrected: N

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-19343-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
280-19343-1	CHURCH 2, SS-1	92	82	113	670E X
280-19343-2	CHURCH 2, SS-2	88	85	87	88
280-19343-3	CHURCH 2, SS-3	91	78	120	130X
MB 280-82646/1-A		85	78	89	86
LCS 280-82646/2-A		93	81	99	86
280-19316-A-14-E MS		98	89	107	93
280-19316-A-14-F MSD		97	90	105	90

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	58-140
TOL = Toluene-d8 (Surr)	80-126
BFB = 4-Bromofluorobenzene (Surr)	76-127

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-19343-1

Surrogate Recovery Report

8015B Gasoline Range Organics - (GC)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	TFT1 %Rec
280-19343-1	CHURCH 2, SS-1	122
280-19343-2	CHURCH 2, SS-2	90
280-19343-3	CHURCH 2, SS-3	78
MB 280-82994/3-A		97
LCS 280-82994/1-A		101
LCSD 280-82994/2-A		102
280-19343-2 MS	CHURCH 2, SS-2 MS	91
280-19343-2 MSD	CHURCH 2, SS-2 MSD	90

Surrogate

Acceptance Limits

TFT = a,a,a-Trifluorotoluene

77-123

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-19343-1

Surrogate Recovery Report

8015B Diesel Range Organics (DRO) (GC)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	OTPH1 %Rec
280-19343-1	CHURCH 2, SS-1	0D
280-19343-2	CHURCH 2, SS-2	0D
280-19343-3	CHURCH 2, SS-3	0D
MB 280-82726/1-A		80
LCS 280-82726/2-A		73
280-19373-B-4-B MS		0D
280-19373-B-4-C MSD		0D

Surrogate	Acceptance Limits
OTPH = o-Terphenyl	49-115

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-19343-1

Method Blank - Batch: 280-82646

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 280-82646/1-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 08/23/2011 1307
Prep Date: 08/23/2011 0600
Leach Date: N/A

Analysis Batch: 280-82746
Prep Batch: 280-82646
Leach Batch: N/A
Units: ug/Kg

Instrument ID: MSV_G
Lab File ID: G7612.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	Result	Qual	RL
Benzene	ND		5.0
Ethylbenzene	ND		5.0
m-Xylene & p-Xylene	ND		2.5
Naphthalene	ND		5.0
o-Xylene	ND		2.5
Toluene	ND		5.0
Xylenes, Total	ND		5.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	78	58 - 140
4-Bromofluorobenzene (Surr)	86	76 - 127
Dibromofluoromethane (Surr)	85	75 - 121
Toluene-d8 (Surr)	89	80 - 126

Lab Control Sample - Batch: 280-82646

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 280-82646/2-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 08/23/2011 1245
Prep Date: 08/23/2011 0600
Leach Date: N/A

Analysis Batch: 280-82746
Prep Batch: 280-82646
Leach Batch: N/A
Units: ug/Kg

Instrument ID: MSV_G
Lab File ID: G7611.D
Initial Weight/Volume: 5.25 g
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	47.6	47.2	99	76 - 120	
Ethylbenzene	47.6	51.2	108	78 - 120	
m-Xylene & p-Xylene	95.2	102	107	77 - 120	
Naphthalene	47.6	40.8	86	65 - 120	
o-Xylene	47.6	48.9	103	77 - 120	
Toluene	47.6	46.8	98	72 - 120	
Xylenes, Total	143	151	106	77 - 120	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	81	58 - 140
4-Bromofluorobenzene (Surr)	86	76 - 127
Dibromofluoromethane (Surr)	93	75 - 121
Toluene-d8 (Surr)	99	80 - 126

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-19343-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-82646

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 280-19316-A-14-E MS
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 08/23/2011 1359
Prep Date: 08/23/2011 0600
Leach Date: N/A

Analysis Batch: 280-82746
Prep Batch: 280-82646
Leach Batch: N/A

Instrument ID: MSV_G
Lab File ID: G7614.D
Initial Weight/Volume: 5.645 g
Final Weight/Volume: 5 mL

MSD Lab Sample ID: 280-19316-A-14-F MSD
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 08/23/2011 1421
Prep Date: 08/23/2011 0600
Leach Date: N/A

Analysis Batch: 280-82746
Prep Batch: 280-82646
Leach Batch: N/A

Instrument ID: MSV_G
Lab File ID: G7615.D
Initial Weight/Volume: 5.407 g
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	103	83	76 - 120	18	20		
Ethylbenzene	106	88	78 - 120	14	20		
m-Xylene & p-Xylene	108	84	77 - 120	20	20		
Naphthalene	63	61	65 - 120	1	38	F	F
o-Xylene	105	84	77 - 120	17	20		
Toluene	100	83	72 - 120	14	20		
Xylenes, Total	107	84	77 - 120	19	20		
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	89		90		58 - 140		
4-Bromofluorobenzene (Surr)	93		90		76 - 127		
Dibromofluoromethane (Surr)	98		97		75 - 121		
Toluene-d8 (Surr)	107		105		80 - 126		

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-19343-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-82646**

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

MS Lab Sample ID: 280-19316-A-14-E MS Units: ug/Kg
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 08/23/2011 1359
Prep Date: 08/23/2011 0600
Leach Date: N/A

MSD Lab Sample ID: 280-19316-A-14-F MSD
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 08/23/2011 1421
Prep Date: 08/23/2011 0600
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Benzene	ND	44.3	46.2	45.7	38.2
Ethylbenzene	ND	44.3	46.2	46.9	40.7
m-Xylene & p-Xylene	ND	88.6	92.5	95.7	78.0
Naphthalene	ND	44.3	46.2	27.9 F	28.2 F
o-Xylene	ND	44.3	46.2	46.5	39.0
Toluene	ND	44.3	46.2	44.2	38.2
Xylenes, Total	ND	133	139	142	117

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-19343-1

Method Blank - Batch: 280-82994

Method: 8015B

Preparation: 5030B

Lab Sample ID: MB 280-82994/3-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 08/25/2011 1308
Prep Date: 08/25/2011 0918
Leach Date: N/A

Analysis Batch: 280-83248
Prep Batch: 280-82994
Leach Batch: N/A
Units: mg/Kg

Instrument ID: GCV_L
Lab File ID: 129F0501.D
Initial Weight/Volume: 10.04 g
Final Weight/Volume: 500 mL
Injection Volume: 5 mL
Column ID: PRIMARY

Analyte	Result	Qual	RL
Gasoline Range Organics (GRO)-C6-C10	ND		1.2

Surrogate	% Rec	Acceptance Limits
a,a,a-Trifluorotoluene	97	77 - 123

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-82994

Method: 8015B

Preparation: 5030B

LCS Lab Sample ID: LCS 280-82994/1-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 08/25/2011 1153
Prep Date: 08/25/2011 0918
Leach Date: N/A

Analysis Batch: 280-83248
Prep Batch: 280-82994
Leach Batch: N/A
Units: mg/Kg

Instrument ID: GCV_L
Lab File ID: 127F0301.D
Initial Weight/Volume: 10.11 g
Final Weight/Volume: 500 mL
Injection Volume: 5 mL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 280-82994/2-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 08/25/2011 1230
Prep Date: 08/25/2011 0918
Leach Date: N/A

Analysis Batch: 280-83248
Prep Batch: 280-82994
Leach Batch: N/A
Units: mg/Kg

Instrument ID: GCV_L
Lab File ID: 128F0401.D
Initial Weight/Volume: 10.23 g
Final Weight/Volume: 500 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	114	116	85 - 153	1	30		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
a,a,a-Trifluorotoluene	101		102	77 - 123			

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-19343-1

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-82994

Method: 8015B
Preparation: 5030B

LCS Lab Sample ID: LCS 280-82994/1-A Units: mg/Kg
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 08/25/2011 1153
Prep Date: 08/25/2011 0918
Leach Date: N/A

LCSD Lab Sample ID: LCSD 280-82994/2-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 08/25/2011 1230
Prep Date: 08/25/2011 0918
Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Gasoline Range Organics (GRO)-C6-C10	5.44	5.38	6.20	6.23

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-82994

Method: 8015B
Preparation: 5030B

MS Lab Sample ID: 280-19343-2
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 08/25/2011 1527
Prep Date: 08/25/2011 0918
Leach Date: N/A

Analysis Batch: 280-83248
Prep Batch: 280-82994
Leach Batch: N/A

Instrument ID: GCV_L
Lab File ID: 132F0801.D
Initial Weight/Volume: 10.48 g
Final Weight/Volume: 500 mL
Injection Volume: 5 mL
Column ID: PRIMARY

MSD Lab Sample ID: 280-19343-2
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 08/25/2011 1605
Prep Date: 08/25/2011 0918
Leach Date: N/A

Analysis Batch: 280-83248
Prep Batch: 280-82994
Leach Batch: N/A

Instrument ID: GCV_L
Lab File ID: 201F0901.D
Initial Weight/Volume: 10.29 g
Final Weight/Volume: 500 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	91	89	85 - 153	1	30		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
a,a,a-Trifluorotoluene	91		90	77 - 123			

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-19343-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-82994**

**Method: 8015B
Preparation: 5030B**

MS Lab Sample ID: 280-19343-2 Units: mg/Kg
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 08/25/2011 1527
Prep Date: 08/25/2011 0918
Leach Date: N/A

MSD Lab Sample ID: 280-19343-2
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 08/25/2011 1605
Prep Date: 08/25/2011 0918
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Gasoline Range Organics (GRO)-C6-C10	ND	5.25	5.34	5.34	5.31

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-19343-1

Method Blank - Batch: 280-82726

Method: 8015B
Preparation: 3546

Lab Sample ID: MB 280-82726/1-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 08/24/2011 2251
Prep Date: 08/23/2011 2100
Leach Date: N/A

Analysis Batch: 280-83503
Prep Batch: 280-82726
Leach Batch: N/A
Units: mg/Kg

Instrument ID: GCS_U
Lab File ID: 006B0601.D
Initial Weight/Volume: 32.6 g
Final Weight/Volume: 1000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		3.7
Motor Oil Range Organics [C24-C36]	ND		11

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	80	49 - 115

Lab Control Sample - Batch: 280-82726

Method: 8015B
Preparation: 3546

Lab Sample ID: LCS 280-82726/2-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 08/24/2011 2319
Prep Date: 08/23/2011 2100
Leach Date: N/A

Analysis Batch: 280-83503
Prep Batch: 280-82726
Leach Batch: N/A
Units: mg/Kg

Instrument ID: GCS_U
Lab File ID: 007B0701.D
Initial Weight/Volume: 31.7 g
Final Weight/Volume: 1000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Diesel Range Organics [C10-C28]	63.1	58.5	93	53 - 115	

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	73	49 - 115

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-19343-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-82726

Method: 8015B
Preparation: 3546

MS Lab Sample ID: 280-19373-B-4-B MS
Client Matrix: Solid
Dilution: 10
Analysis Date: 08/26/2011 1445
Prep Date: 08/23/2011 2100
Leach Date: N/A

Analysis Batch: 280-83509
Prep Batch: 280-82726
Leach Batch: N/A

Instrument ID: GCS_U
Lab File ID: 010B1001.D
Initial Weight/Volume: 31.0 g
Final Weight/Volume: 1000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

MSD Lab Sample ID: 280-19373-B-4-C MSD
Client Matrix: Solid
Dilution: 10
Analysis Date: 08/26/2011 1513
Prep Date: 08/23/2011 2100
Leach Date: N/A

Analysis Batch: 280-83509
Prep Batch: 280-82726
Leach Batch: N/A

Instrument ID: GCS_U
Lab File ID: 011B1101.D
Initial Weight/Volume: 31.7 g
Final Weight/Volume: 1000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Diesel Range Organics [C10-C28]	205	510	56 - 115	15	23	4 D	4 D
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
o-Terphenyl	0	D	0	D	49 - 115		

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-82726

Method: 8015B
Preparation: 3546

MS Lab Sample ID: 280-19373-B-4-B MS
Client Matrix: Solid
Dilution: 10
Analysis Date: 08/26/2011 1445
Prep Date: 08/23/2011 2100
Leach Date: N/A

Units: mg/Kg

MSD Lab Sample ID: 280-19373-B-4-C MSD
Client Matrix: Solid
Dilution: 10
Analysis Date: 08/26/2011 1513
Prep Date: 08/23/2011 2100
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Diesel Range Organics [C10-C28]	1100	67.9	66.4	1270 4 D	1470 4 D

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-19343-1

Duplicate - Batch: 280-82379

Method: Moisture Preparation: N/A

Lab Sample ID:	280-19343-1	Analysis Batch:	280-82379	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	08/22/2011 0832	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	11	10	9	20	

Duplicate - Batch: 280-82379

Method: Moisture Preparation: N/A

Lab Sample ID:	280-19347-A-1 DU	Analysis Batch:	280-82379	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	08/22/2011 0832	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	22	24	12	20	

DATA REPORTING QUALIFIERS

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-19343-1

Lab Section	Qualifier	Description
GC/MS VOA	F	MS or MSD exceeds the control limits
	E	Result exceeded calibration range.
	X	Surrogate is outside control limits
GC Semi VOA	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-19343-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 280-82646					
LCS 280-82646/2-A	Lab Control Sample	T	Solid	5030B	
MB 280-82646/1-A	Method Blank	T	Solid	5030B	
280-19316-A-14-E MS	Matrix Spike	T	Solid	5030B	
280-19316-A-14-F MSD	Matrix Spike Duplicate	T	Solid	5030B	
280-19343-1	CHURCH 2, SS-1	T	Solid	5030B	
280-19343-2	CHURCH 2, SS-2	T	Solid	5030B	
280-19343-3	CHURCH 2, SS-3	T	Solid	5030B	
Analysis Batch:280-82746					
LCS 280-82646/2-A	Lab Control Sample	T	Solid	8260B	280-82646
MB 280-82646/1-A	Method Blank	T	Solid	8260B	280-82646
280-19316-A-14-E MS	Matrix Spike	T	Solid	8260B	280-82646
280-19316-A-14-F MSD	Matrix Spike Duplicate	T	Solid	8260B	280-82646
280-19343-1	CHURCH 2, SS-1	T	Solid	8260B	280-82646
280-19343-2	CHURCH 2, SS-2	T	Solid	8260B	280-82646
280-19343-3	CHURCH 2, SS-3	T	Solid	8260B	280-82646
Report Basis					
T = Total					
GC VOA					
Prep Batch: 280-82994					
LCS 280-82994/1-A	Lab Control Sample	T	Solid	5030B	
LCSD 280-82994/2-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 280-82994/3-A	Method Blank	T	Solid	5030B	
280-19343-1	CHURCH 2, SS-1	T	Solid	5030B	
280-19343-2	CHURCH 2, SS-2	T	Solid	5030B	
280-19343-2MS	Matrix Spike	T	Solid	5030B	
280-19343-2MSD	Matrix Spike Duplicate	T	Solid	5030B	
280-19343-3	CHURCH 2, SS-3	T	Solid	5030B	
Analysis Batch:280-83248					
LCS 280-82994/1-A	Lab Control Sample	T	Solid	8015B	280-82994
LCSD 280-82994/2-A	Lab Control Sample Duplicate	T	Solid	8015B	280-82994
MB 280-82994/3-A	Method Blank	T	Solid	8015B	280-82994
280-19343-1	CHURCH 2, SS-1	T	Solid	8015B	280-82994
280-19343-2	CHURCH 2, SS-2	T	Solid	8015B	280-82994
280-19343-2MS	Matrix Spike	T	Solid	8015B	280-82994
280-19343-2MSD	Matrix Spike Duplicate	T	Solid	8015B	280-82994
280-19343-3	CHURCH 2, SS-3	T	Solid	8015B	280-82994
Report Basis					
T = Total					

TestAmerica Denver

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-19343-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-82726					
LCS 280-82726/2-A	Lab Control Sample	T	Solid	3546	
MB 280-82726/1-A	Method Blank	T	Solid	3546	
280-19343-1	CHURCH 2, SS-1	T	Solid	3546	
280-19343-2	CHURCH 2, SS-2	T	Solid	3546	
280-19343-3	CHURCH 2, SS-3	T	Solid	3546	
280-19373-B-4-B MS	Matrix Spike	T	Solid	3546	
280-19373-B-4-C MSD	Matrix Spike Duplicate	T	Solid	3546	
Analysis Batch:280-83503					
LCS 280-82726/2-A	Lab Control Sample	T	Solid	8015B	280-82726
MB 280-82726/1-A	Method Blank	T	Solid	8015B	280-82726
280-19343-1	CHURCH 2, SS-1	T	Solid	8015B	280-82726
280-19343-3	CHURCH 2, SS-3	T	Solid	8015B	280-82726
Analysis Batch:280-83509					
280-19343-2	CHURCH 2, SS-2	T	Solid	8015B	280-82726
280-19373-B-4-B MS	Matrix Spike	T	Solid	8015B	280-82726
280-19373-B-4-C MSD	Matrix Spike Duplicate	T	Solid	8015B	280-82726

Report Basis

T = Total

General Chemistry

Analysis Batch:280-82379					
280-19343-1	CHURCH 2, SS-1	T	Solid	Moisture	
280-19343-1DU	Duplicate	T	Solid	Moisture	
280-19343-2	CHURCH 2, SS-2	T	Solid	Moisture	
280-19343-3	CHURCH 2, SS-3	T	Solid	Moisture	
280-19347-A-1 DU	Duplicate	T	Solid	Moisture	

Report Basis

T = Total

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-19343-1

Laboratory Chronicle

Lab ID: 280-19343-1

Client ID: CHURCH 2, SS-1

Sample Date/Time: 08/18/2011 12:35

Received Date/Time: 08/19/2011 11:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-19343-A-1-B		280-82746	280-82646	08/23/2011 06:00	1	TAL DEN	JR
A:8260B	280-19343-A-1-B		280-82746	280-82646	08/23/2011 18:43	1	TAL DEN	KAJ
P:5030B	280-19343-A-1-G		280-83248	280-82994	08/25/2011 09:18	5	TAL DEN	AMB
A:8015B	280-19343-A-1-G		280-83248	280-82994	08/25/2011 14:12	5	TAL DEN	TEM
P:3546	280-19343-A-1-C		280-83503	280-82726	08/23/2011 21:00	10	TAL DEN	MRM
A:8015B	280-19343-A-1-C		280-83503	280-82726	08/24/2011 23:46	10	TAL DEN	MRB
A:Moisture	280-19343-A-1		280-82379		08/22/2011 08:32	1	TAL DEN	PBB

Lab ID: 280-19343-1 DU

Client ID: CHURCH 2, SS-1

Sample Date/Time: 08/18/2011 12:35

Received Date/Time: 08/19/2011 11:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:Moisture	280-19343-A-1 DU		280-82379		08/22/2011 08:32	1	TAL DEN	PBB

Lab ID: 280-19343-2

Client ID: CHURCH 2, SS-2

Sample Date/Time: 08/18/2011 12:45

Received Date/Time: 08/19/2011 11:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-19343-A-2-A		280-82746	280-82646	08/23/2011 06:00	1	TAL DEN	JR
A:8260B	280-19343-A-2-A		280-82746	280-82646	08/23/2011 17:59	1	TAL DEN	KAJ
P:5030B	280-19343-A-2-D		280-83248	280-82994	08/25/2011 09:18	1	TAL DEN	AMB
A:8015B	280-19343-A-2-D		280-83248	280-82994	08/25/2011 14:50	1	TAL DEN	TEM
P:3546	280-19343-A-2-B		280-83509	280-82726	08/23/2011 21:00	10	TAL DEN	MRM
A:8015B	280-19343-A-2-B		280-83509	280-82726	08/26/2011 13:21	10	TAL DEN	MRB
A:Moisture	280-19343-A-2		280-82379		08/22/2011 08:32	1	TAL DEN	PBB

Lab ID: 280-19343-2 MS

Client ID: CHURCH 2, SS-2

Sample Date/Time: 08/18/2011 12:45

Received Date/Time: 08/19/2011 11:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-19343-A-2-E MS		280-83248	280-82994	08/25/2011 09:18	1	TAL DEN	AMB
A:8015B	280-19343-A-2-E MS		280-83248	280-82994	08/25/2011 15:27	1	TAL DEN	TEM

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-19343-1

Laboratory Chronicle

Lab ID: 280-19343-2 MSD

Client ID: CHURCH 2, SS-2

Sample Date/Time: 08/18/2011 12:45

Received Date/Time: 08/19/2011 11:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-19343-A-2-F MSD		280-83248	280-82994	08/25/2011 09:18	1	TAL DEN	AMB
A:8015B	280-19343-A-2-F MSD		280-83248	280-82994	08/25/2011 16:05	1	TAL DEN	TEM

Lab ID: 280-19343-3

Client ID: CHURCH 2, SS-3

Sample Date/Time: 08/18/2011 12:55

Received Date/Time: 08/19/2011 11:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-19343-A-3-B		280-82746	280-82646	08/23/2011 06:00	1	TAL DEN	JR
A:8260B	280-19343-A-3-B		280-82746	280-82646	08/23/2011 19:06	1	TAL DEN	KAJ
P:5030B	280-19343-A-3-E		280-83248	280-82994	08/25/2011 09:18	1	TAL DEN	AMB
A:8015B	280-19343-A-3-E		280-83248	280-82994	08/25/2011 16:43	1	TAL DEN	TEM
P:3546	280-19343-A-3-C		280-83503	280-82726	08/23/2011 21:00	10	TAL DEN	MRM
A:8015B	280-19343-A-3-C		280-83503	280-82726	08/25/2011 00:41	10	TAL DEN	MRB
A:Moisture	280-19343-A-3		280-82379		08/22/2011 08:32	1	TAL DEN	PBB

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 280-82646/1-A		280-82746	280-82646	08/23/2011 06:00	1	TAL DEN	JR
A:8260B	MB 280-82646/1-A		280-82746	280-82646	08/23/2011 13:07	1	TAL DEN	KAJ
P:5030B	MB 280-82994/3-A		280-83248	280-82994	08/25/2011 09:18	1	TAL DEN	AMB
A:8015B	MB 280-82994/3-A		280-83248	280-82994	08/25/2011 13:08	1	TAL DEN	TEM
P:3546	MB 280-82726/1-A		280-83503	280-82726	08/23/2011 21:00	1	TAL DEN	MRM
A:8015B	MB 280-82726/1-A		280-83503	280-82726	08/24/2011 22:51	1	TAL DEN	MRB

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 280-82646/2-A		280-82746	280-82646	08/23/2011 06:00	1	TAL DEN	JR
A:8260B	LCS 280-82646/2-A		280-82746	280-82646	08/23/2011 12:45	1	TAL DEN	KAJ
P:5030B	LCS 280-82994/1-A		280-83248	280-82994	08/25/2011 09:18	1	TAL DEN	AMB
A:8015B	LCS 280-82994/1-A		280-83248	280-82994	08/25/2011 11:53	1	TAL DEN	TEM
P:3546	LCS 280-82726/2-A		280-83503	280-82726	08/23/2011 21:00	1	TAL DEN	MRM
A:8015B	LCS 280-82726/2-A		280-83503	280-82726	08/24/2011 23:19	1	TAL DEN	MRB

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-19343-1

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 280-82994/2-A		280-83248	280-82994	08/25/2011 09:18	1	TAL DEN	AMB
A:8015B	LCSD 280-82994/2-A		280-83248	280-82994	08/25/2011 12:30	1	TAL DEN	TEM

Lab ID: MS

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	280-19316-A-14-E MS		280-82746	280-82646	08/23/2011 06:00	1	TAL DEN	JR
A:8260B	280-19316-A-14-E MS		280-82746	280-82646	08/23/2011 13:59	1	TAL DEN	KAJ
P:3546	280-19373-B-4-B MS		280-83509	280-82726	08/23/2011 21:00	10	TAL DEN	MRM
A:8015B	280-19373-B-4-B MS		280-83509	280-82726	08/26/2011 14:45	10	TAL DEN	MRB

Lab ID: MSD

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	280-19316-A-14-F MSD		280-82746	280-82646	08/23/2011 06:00	1	TAL DEN	JR
A:8260B	280-19316-A-14-F MSD		280-82746	280-82646	08/23/2011 14:21	1	TAL DEN	KAJ
P:3546	280-19373-B-4-C MSD		280-83509	280-82726	08/23/2011 21:00	10	TAL DEN	MRM
A:8015B	280-19373-B-4-C MSD		280-83509	280-82726	08/26/2011 15:13	10	TAL DEN	MRB

Lab ID: DU

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:Moisture	280-19347-A-1 DU		280-82379		08/22/2011 08:32	1	TAL DEN	PBB

Lab References:

TAL DEN = TestAmerica Denver

Certification Summary

Client: Colorado Oil&Gas Conservation Commision
Project/Site: COGCC Rem #4301 - Church #2

TestAmerica Job ID: 280-19343-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Denver	A2LA	DoD ELAP		2907.01
TestAmerica Denver	A2LA	ISO/IEC 17025		2907.01
TestAmerica Denver	Alabama	State Program	4	40730
TestAmerica Denver	Alaska	Alaska UST	10	UST-30
TestAmerica Denver	Arizona	State Program	9	AZ0713
TestAmerica Denver	Arkansas	State Program	6	88-0687
TestAmerica Denver	California	State Program	9	2513
TestAmerica Denver	Colorado	State Program	8	N/A
TestAmerica Denver	Connecticut	State Program	1	PH-0686
TestAmerica Denver	Florida	NELAC	4	E87667
TestAmerica Denver	Georgia	State Program	4	N/A
TestAmerica Denver	Idaho	State Program	10	CO00026
TestAmerica Denver	Illinois	NELAC	5	200017
TestAmerica Denver	Iowa	State Program	7	370
TestAmerica Denver	Kansas	NELAC	7	E-10166
TestAmerica Denver	Louisiana	NELAC	6	30785
TestAmerica Denver	Maine	State Program	1	CO0002
TestAmerica Denver	Maryland	State Program	3	268
TestAmerica Denver	Minnesota	NELAC	5	8-999-405
TestAmerica Denver	Nevada	State Program	9	CO0026
TestAmerica Denver	New Hampshire	NELAC	1	205310
TestAmerica Denver	New Jersey	NELAC	2	CO004
TestAmerica Denver	New Mexico	State Program	6	N/A
TestAmerica Denver	New York	NELAC	2	11964
TestAmerica Denver	North Carolina	North Carolina DENR	4	358
TestAmerica Denver	North Dakota	State Program	8	R-034
TestAmerica Denver	Oklahoma	State Program	6	8614
TestAmerica Denver	Oregon	NELAC	10	CO200001
TestAmerica Denver	Pennsylvania	NELAC	3	68-00664
TestAmerica Denver	South Carolina	State Program	4	72002
TestAmerica Denver	Tennessee	State Program	4	TN02944
TestAmerica Denver	Texas	NELAC	6	T104704183-08-TX
TestAmerica Denver	USDA	USDA		P330-08-00036
TestAmerica Denver	Utah	NELAC	8	QUAN5
TestAmerica Denver	Washington	State Program	10	C1284
TestAmerica Denver	West Virginia	West Virginia DEP	3	354
TestAmerica Denver	Wisconsin	State Program	5	999615430

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

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.: 280-19343-1
 SDG No.: _____
 Client Sample ID: CHURCH 2, SS-1 Lab Sample ID: 280-19343-1
 Matrix: Solid Lab File ID: G7627.D
 Analysis Method: 8260B Date Collected: 08/18/2011 12:35
 Sample wt/vol: 1.318(g) Date Analyzed: 08/23/2011 18:43
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 (60.32) ID: 0.32 (mm)
 % Moisture: 11.0 Level: (low/med) Low
 Analysis Batch No.: 82746 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		21	2.0
100-41-4	Ethylbenzene	ND		21	2.9
179601-23-1	m-Xylene & p-Xylene	ND		11	4.4
91-20-3	Naphthalene	ND		21	2.7
95-47-6	o-Xylene	ND		11	2.6
108-88-3	Toluene	ND		21	2.9
1330-20-7	Xylenes, Total	ND		21	2.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	82		58-140
460-00-4	4-Bromofluorobenzene (Surr)	670	E X	76-127
1868-53-7	Dibromofluoromethane (Surr)	92		75-121
2037-26-5	Toluene-d8 (Surr)	113		80-126

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\G.i\082311A.B\G7627.D
Lab Smp Id: 280-19343-A-1-B Client Smp ID: CHURCH 2, SS-1
Inj Date : 23-AUG-2011 18:43
Operator : REINHARDT Inst ID: G.i
Smp Info : 280-19343-a-1-b,,1.4G
Misc Info : 280-19343-A-1-B
Comment :
Method : \\DenSvr03\Public\chem\MSV\G.i\082311A.B\8260B-soil.m
Meth Date : 23-Aug-2011 14:28 reinhardtj Quant Type: ISTD
Cal Date : 20-AUG-2011 18:47 Cal File: G7520.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mbtexn.sub
Target Version: 4.14
Processing Host: DENPC367

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

Name	Value	Description
DF	1.000	Dilution Factor
Vp	5.000	Purge Volume (mL)
Ws	1.318	Weight of sample (g)
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS	
						ON-COLUMN	FINAL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
* 59 Fluorobenzene	96	7.993	7.989	(1.000)	1451953	50.0000	
* 85 Chlorobenzene-d5	119	10.733	10.718	(1.000)	229305	50.0000	
* 110 1,4-Dichlorobenzene-d4	152	12.823	12.856	(1.000)	434162	50.0000	(Q)
\$ 49 Dibromofluoromethane (Surr)	111	7.402	7.395	(0.926)	460438	50.5755	191.865
\$ 55 1,2-Dichloroethane-d4	65	7.717	7.710	(0.965)	442257	45.0324	170.836
\$ 73 Toluene-d8	98	9.383	9.366	(0.874)	1092111	62.2388	236.111(Q)
\$ 96 4-Bromofluorobenzene (Surr)	95	11.699	11.731	(0.912)	3565036	368.281	1397.12(AQR)
M 4 Xylene (total)	106	Compound Not Detected.					
31 Methyl t-butyl ether	73	Compound Not Detected.					
58 Benzene	78	Compound Not Detected.					
74 Toluene	91	Compound Not Detected.					
88 Ethylbenzene	106	Compound Not Detected.					
89 m and p-Xylene	106	Compound Not Detected.					
90 o-Xylene	106	Compound Not Detected.					
118 Naphthalene	128	Compound Not Detected.					

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: G7627.D

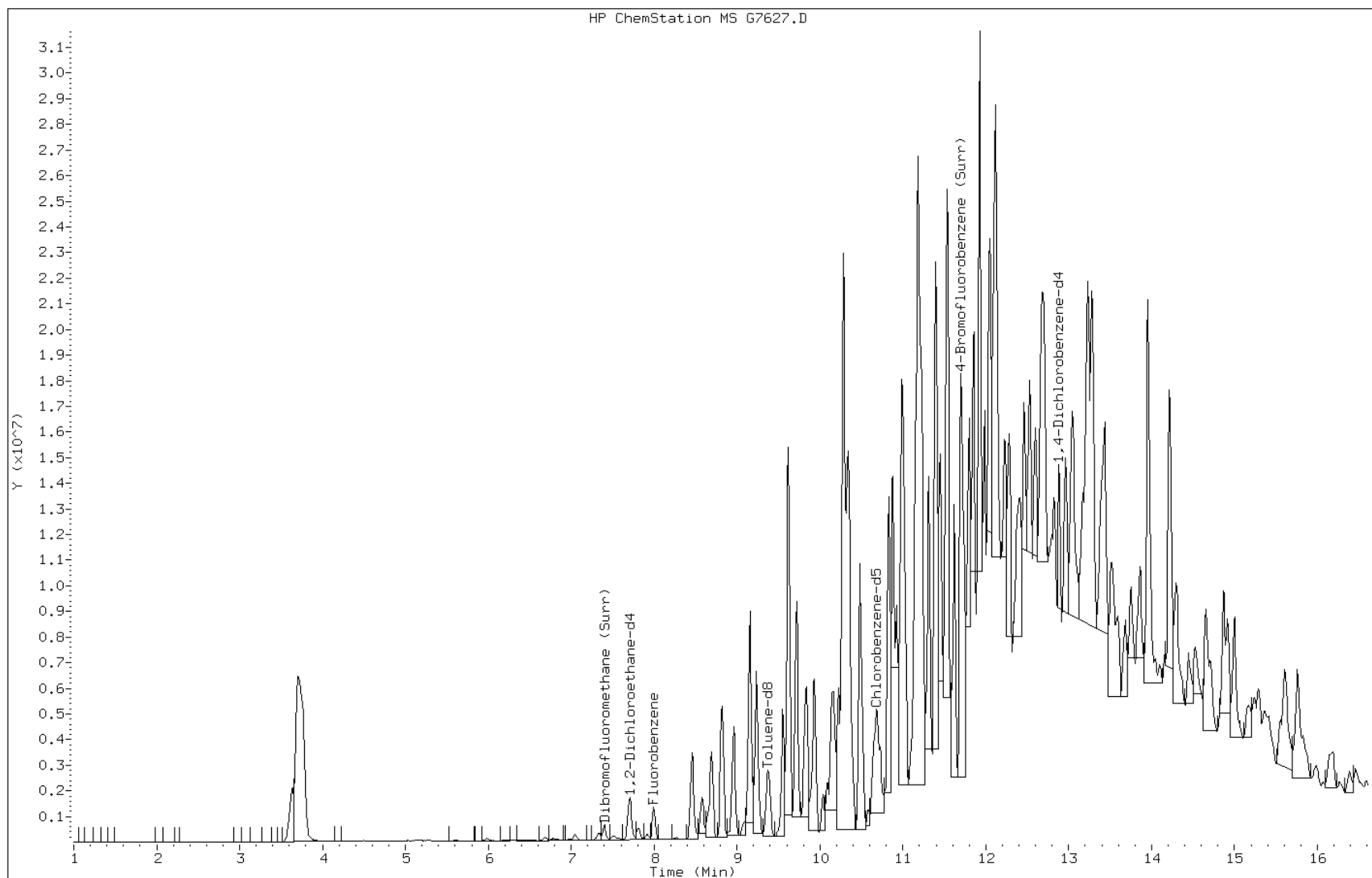
Date: 23-AUG-2011 18:43

Client ID: CHURCH 2, SS-1

Instrument: G.i

Sample Info: 280-19343-a-1-b,,1.4G

Operator: REINHARDT



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-19343-1
 SDG No.: _____
 Client Sample ID: CHURCH 2, SS-2 Lab Sample ID: 280-19343-2
 Matrix: Solid Lab File ID: G7625.D
 Analysis Method: 8260B Date Collected: 08/18/2011 12:45
 Sample wt/vol: 5.456(g) Date Analyzed: 08/23/2011 17:59
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 (60.32) ID: 0.32 (mm)
 % Moisture: 6.6 Level: (low/med) Low
 Analysis Batch No.: 82746 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		4.9	0.46
100-41-4	Ethylbenzene	ND		4.9	0.66
179601-23-1	m-Xylene & p-Xylene	ND		2.5	1.0
91-20-3	Naphthalene	ND		4.9	0.62
95-47-6	o-Xylene	ND		2.5	0.60
108-88-3	Toluene	ND		4.9	0.68
1330-20-7	Xylenes, Total	ND		4.9	0.60

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		58-140
460-00-4	4-Bromofluorobenzene (Surr)	88		76-127
1868-53-7	Dibromofluoromethane (Surr)	88		75-121
2037-26-5	Toluene-d8 (Surr)	87		80-126

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\G.i\082311A.B\G7625.D
Lab Smp Id: 280-19343-A-2-A Client Smp ID: CHURCH 2, SS-2
Inj Date : 23-AUG-2011 17:59
Operator : REINHARDT Inst ID: G.i
Smp Info : 280-19343-a-2-a
Misc Info : 280-19343-A-2-A
Comment :
Method : \\DenSvr03\Public\chem\MSV\G.i\082311A.B\8260B-soil.m
Meth Date : 23-Aug-2011 14:28 reinhardtj Quant Type: ISTD
Cal Date : 20-AUG-2011 18:47 Cal File: G7520.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mbtexn.sub
Target Version: 4.14
Processing Host: DENPC232

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

Name	Value	Description
DF	1.000	Dilution Factor
Vp	5.000	Purge Volume (mL)
Ws	5.456	Weight of sample (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/Kg)
* 59 Fluorobenzene	96	8.000	7.989 (1.000)		1703278	50.0000	
* 85 Chlorobenzene-d5	119	10.730	10.718 (1.000)		375088	50.0000	
* 110 1,4-Dichlorobenzene-d4	152	12.859	12.856 (1.000)		481674	50.0000	(Q)
\$ 49 Dibromofluoromethane (Surr)	111	7.408	7.395 (0.926)		514949	48.2170	44.1872
\$ 55 1,2-Dichloroethane-d4	65	7.724	7.710 (0.966)		541334	46.9875	43.0604
\$ 73 Toluene-d8	98	9.380	9.366 (0.874)		1375321	47.9158	43.9111
\$ 96 4-Bromofluorobenzene (Surr)	95	11.745	11.731 (0.913)		519566	48.3787	44.3353
M 4 Xylene (total)	106		Compound Not Detected.				
31 Methyl t-butyl ether	73		Compound Not Detected.				
58 Benzene	78		Compound Not Detected.				
74 Toluene	91		Compound Not Detected.				
88 Ethylbenzene	106		Compound Not Detected.				
89 m and p-Xylene	106		Compound Not Detected.				
90 o-Xylene	106		Compound Not Detected.				
118 Naphthalene	128		Compound Not Detected.				

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: G7625.D

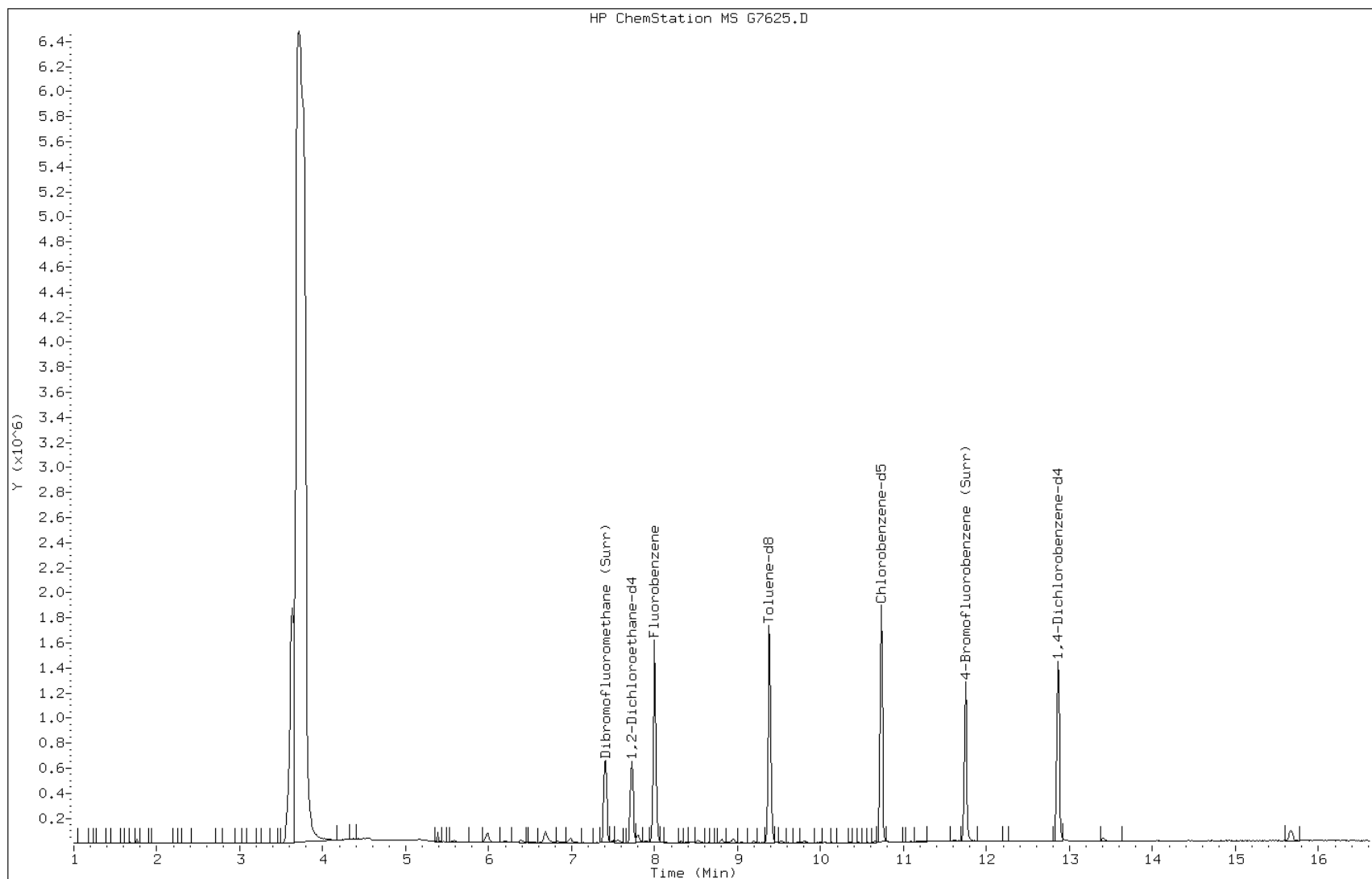
Date: 23-AUG-2011 17:59

Client ID: CHURCH 2, SS-2

Instrument: G.i

Sample Info: 280-19343-a-2-a

Operator: REINHARDT



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-19343-1
 SDG No.: _____
 Client Sample ID: CHURCH 2, SS-3 Lab Sample ID: 280-19343-3
 Matrix: Solid Lab File ID: G7628.D
 Analysis Method: 8260B Date Collected: 08/18/2011 12:55
 Sample wt/vol: 5.318(g) Date Analyzed: 08/23/2011 19:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 (60.32) ID: 0.32 (mm)
 % Moisture: 10.7 Level: (low/med) Low
 Analysis Batch No.: 82746 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		5.3	0.50
100-41-4	Ethylbenzene	ND		5.3	0.71
179601-23-1	m-Xylene & p-Xylene	ND		2.6	1.1
91-20-3	Naphthalene	ND		5.3	0.66
95-47-6	o-Xylene	ND		2.6	0.64
108-88-3	Toluene	ND		5.3	0.73
1330-20-7	Xylenes, Total	ND		5.3	0.64

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	78		58-140
460-00-4	4-Bromofluorobenzene (Surr)	130	X	76-127
1868-53-7	Dibromofluoromethane (Surr)	91		75-121
2037-26-5	Toluene-d8 (Surr)	120		80-126

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\G.i\082311A.B\G7628.D
Lab Smp Id: 280-19343-A-3-B Client Smp ID: CHURCH 2, SS-3
Inj Date : 23-AUG-2011 19:06
Operator : REINHARDT Inst ID: G.i
Smp Info : 280-19343-a-3-b
Misc Info : 280-19343-A-3-B
Comment :
Method : \\DenSvr03\Public\chem\MSV\G.i\082311A.B\8260B-soil.m
Meth Date : 23-Aug-2011 14:28 reinhardtj Quant Type: ISTD
Cal Date : 20-AUG-2011 18:47 Cal File: G7520.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mbtexn.sub
Target Version: 4.14
Processing Host: DENPC232

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

Name	Value	Description
DF	1.000	Dilution Factor
Vp	5.000	Purge Volume (mL)
Ws	5.318	Weight of sample (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/Kg)
* 59 Fluorobenzene	96	8.006	7.989 (1.000)		1556829	50.0000	
* 85 Chlorobenzene-d5	119	10.736	10.718 (1.000)		215616	50.0000	
* 110 1,4-Dichlorobenzene-d4	152	12.865	12.856 (1.000)		118573	50.0000	(Q)
\$ 49 Dibromofluoromethane (Surr)	111	7.405	7.395 (0.925)		488890	50.0832	47.0884
\$ 55 1,2-Dichloroethane-d4	65	7.730	7.710 (0.966)		450478	42.7795	40.2214
\$ 73 Toluene-d8	98	9.386	9.366 (0.874)		1087073	65.8849	61.9452
\$ 96 4-Bromofluorobenzene (Surr)	95	11.751	11.731 (0.913)		188835	71.4272	67.1560(R)
M 4 Xylene (total)	106		Compound Not Detected.				
31 Methyl t-butyl ether	73		Compound Not Detected.				
58 Benzene	78		Compound Not Detected.				
74 Toluene	91		Compound Not Detected.				
88 Ethylbenzene	106		Compound Not Detected.				
89 m and p-Xylene	106		Compound Not Detected.				
90 o-Xylene	106		Compound Not Detected.				
118 Naphthalene	128		Compound Not Detected.				

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: G7628.D

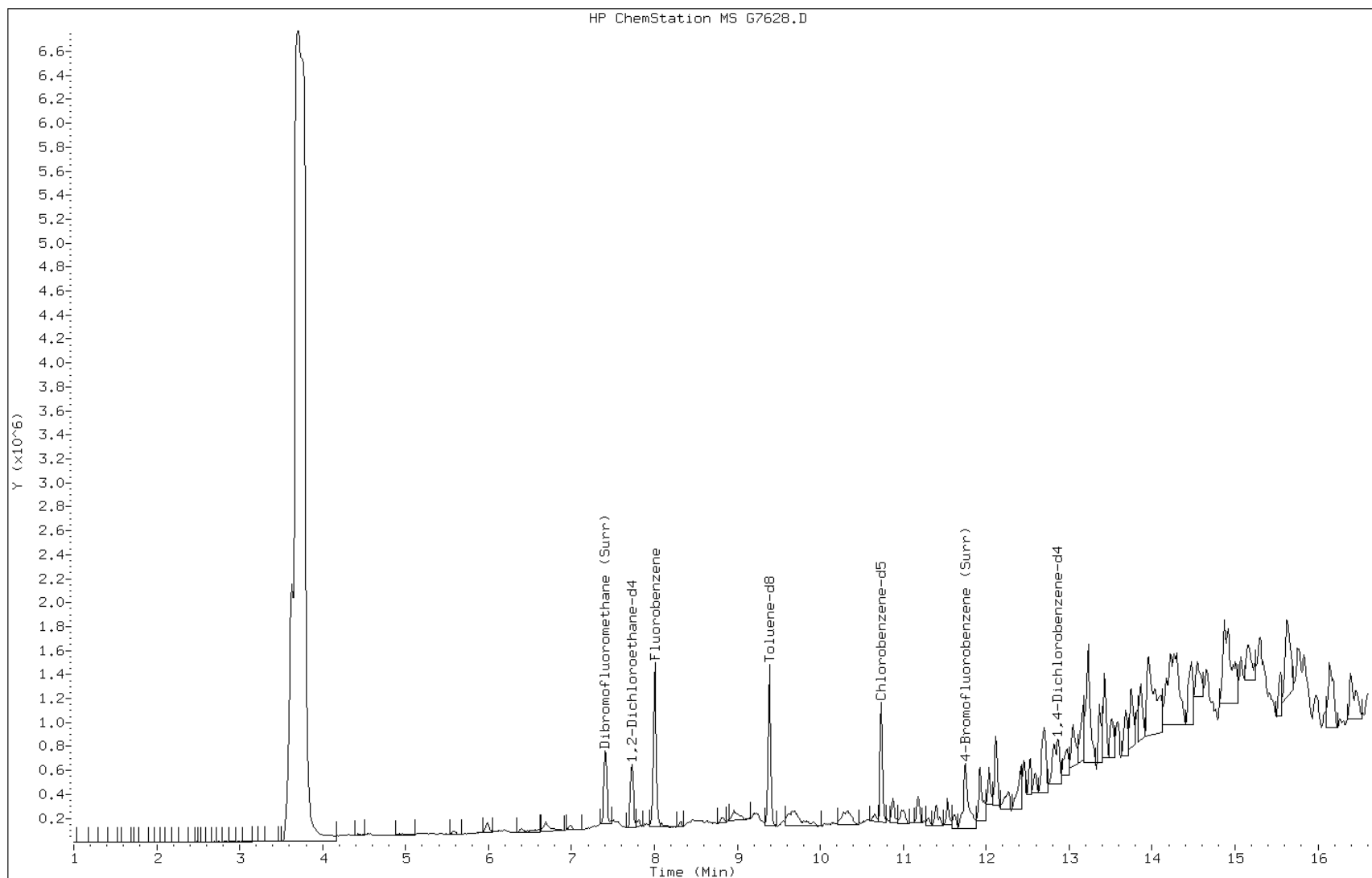
Date: 23-AUG-2011 19:06

Client ID: CHURCH 2, SS-3

Instrument: G.i

Sample Info: 280-19343-a-3-b

Operator: REINHARDT



Method 8015B – GRO

Gasoline Range Organics (GC) by
Method 8015B

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-19343-1
SDG No.: _____
Client Sample ID: CHURCH 2, SS-1 Lab Sample ID: 280-19343-1
Matrix: Solid Lab File ID: 130F0601.D
Analysis Method: 8015B Date Collected: 08/18/2011 12:35
Sample wt/vol: 10.02(g) Date Analyzed: 08/25/2011 14:12
Soil Aliquot Vol: 5 (mL) Dilution Factor: 5
Soil Extract Vol.: 500(mL) GC Column: RTX 502.2 (105) ID: 0.53(mm)
% Moisture: _____ Level: (low/med) Medium
Analysis Batch No.: 83248 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	130		6.0	1.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	122		77-123

TestAmerica

VOLATILE REPORT SOW 3/90

Data file : \\DenSvr03\Public\chem\GCV\GC_L.i\0825111.B\130F0601.D
 Lab Smp Id: 280-19343-A-1-G Client Smp ID: CHURCH 2, SS-1
 Inj Date : 25-AUG-2011 14:12
 Operator : AMB Inst ID: GC_L.i
 Smp Info : 280-941804,43-1
 Misc Info : 280-19343-A-1-G
 Comment : REV. OLM01.1.1
 Method : \\DenSvr03\Public\chem\GCV\GC_L.i\0825111.B\8015.m
 Meth Date : 25-Aug-2011 12:51 byla Quant Type: ESTD
 Cal Date : 11-APR-2011 20:10 Cal File: 122F1201.D
 Als bottle: 130
 Dil Factor: 5.00000
 Integrator: Falcon Compound Sublist: GRO.S.01.sub
 Target Version: 4.14
 Processing Host: DENPC369

Concentration Formula: Amt * DF * Uf * Vp/Va * Vf/Ws * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1000.000	ng unit correction factor (mg/g)
Ws	10.020	Weight of sample extracted (g)
Vp	5.000	final purge volume (ml)
Va	100.000	vml methanol added to purge vlm (ul)
Vf	10.000	vml methanol used for extraction (ml)
Cpnd Variable		Local Compound Variable

Compounds					CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/Kg)
\$ 2 Trifluorotoluene	12.156	12.096	0.060	58346	7.29527	1820.18(M)
S 3 GRO - C6 to C10	7.057-20.280			3411022	537.146	134018(M)
4 1-Chloro-4-Fluorobenzene	16.770	16.726	0.044	366487	44.2345	11036.5(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 130F0601.D

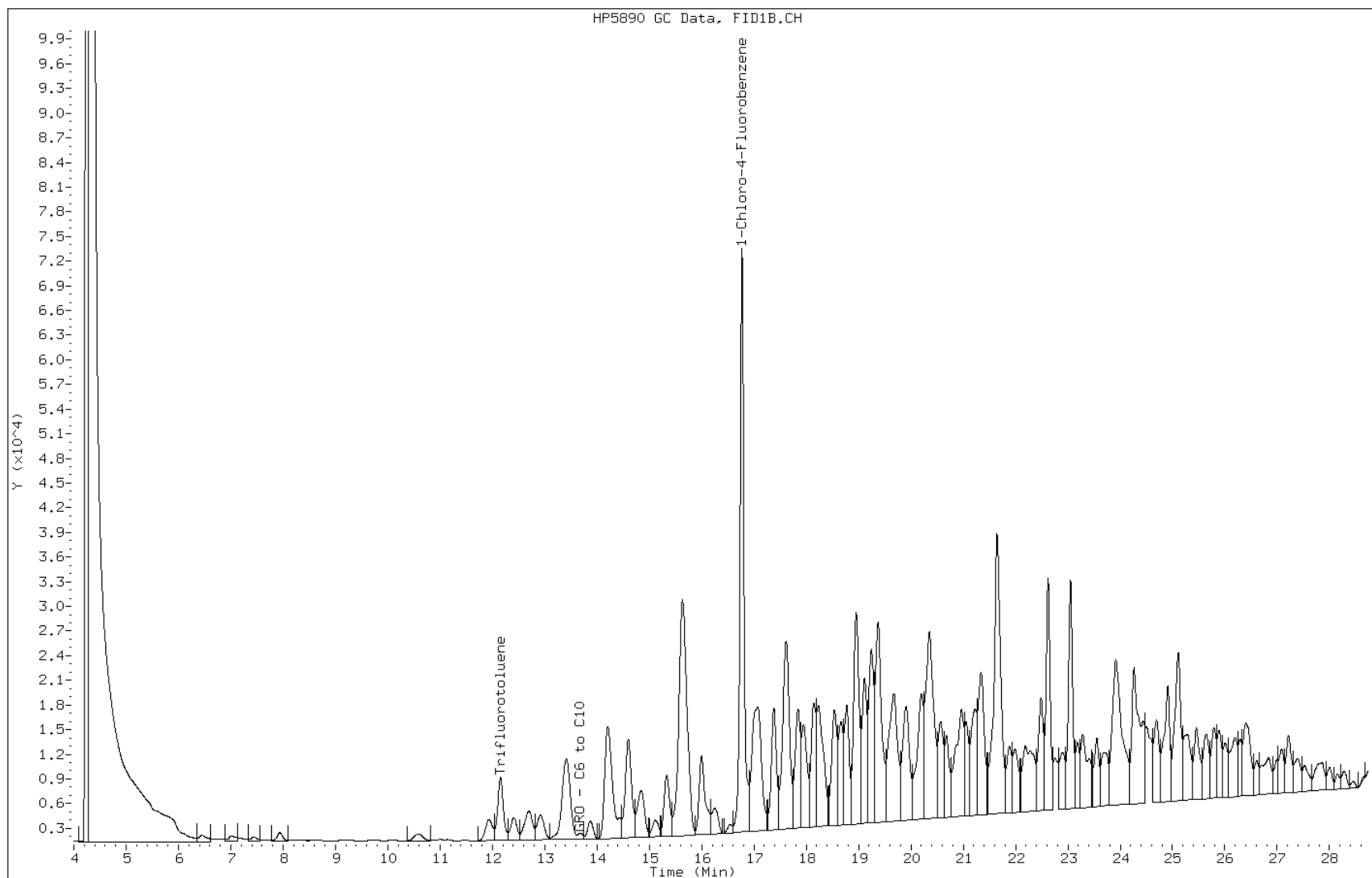
Date: 25-AUG-2011 14:12

Client ID: CHURCH 2, SS-1

Instrument: GC_L.i

Sample Info: 280-941804,43-1

Operator: AMB

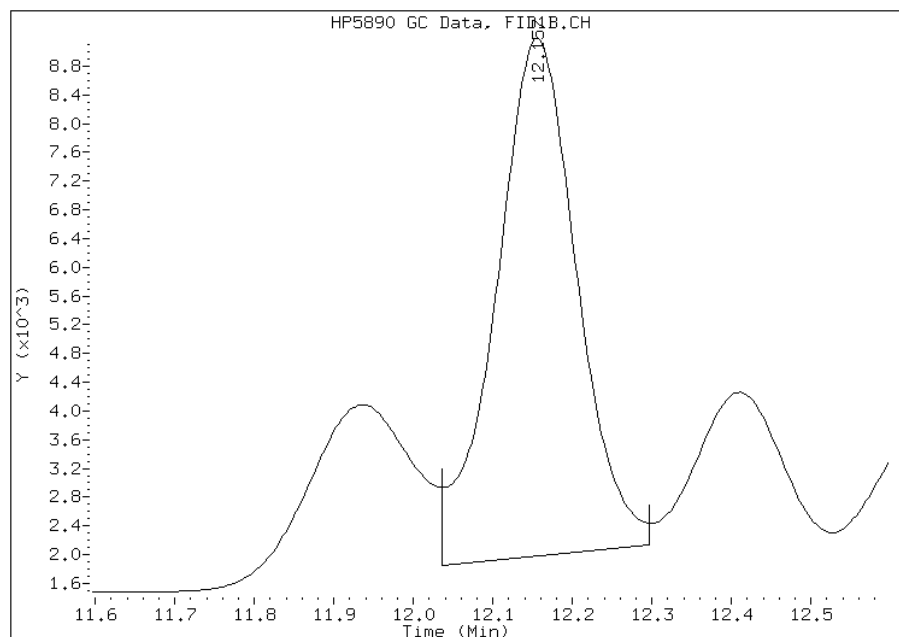


Manual Integration Report

Data File: 130F0601.D
Inj. Date and Time: 25-AUG-2011 14:12
Instrument ID: GC_L.i
Client ID: CHURCH 2, SS-1
Compound: 2 Trifluorotoluene
CAS #: 98-08-8
Report Date: 08/26/2011

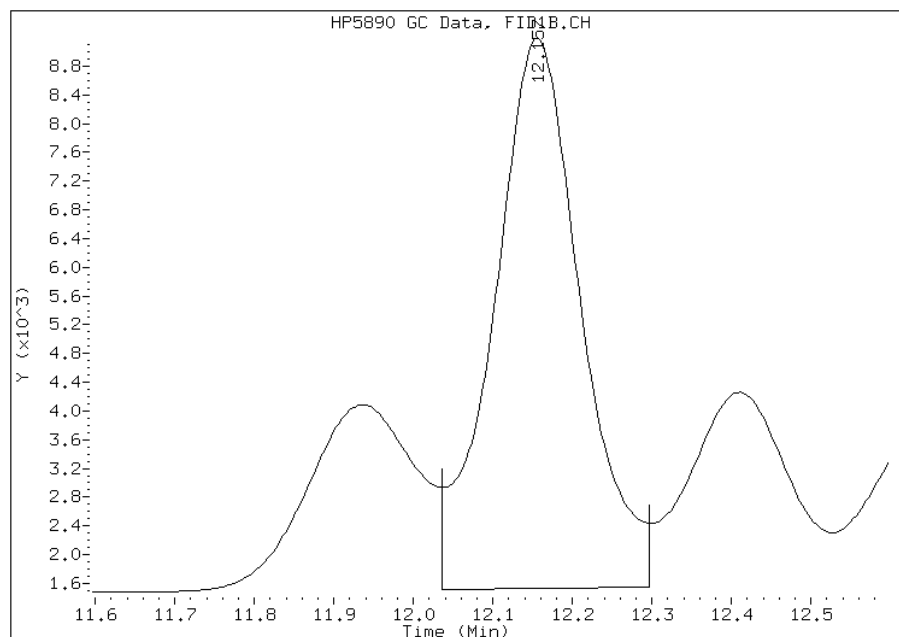
Processing Integration Results

RT: 12.16
Response: 51025
Amount: 6.43
Conc: 320.76



Manual Integration Results

RT: 12.16
Response: 58346
Amount: 7.30
Conc: 1820.18



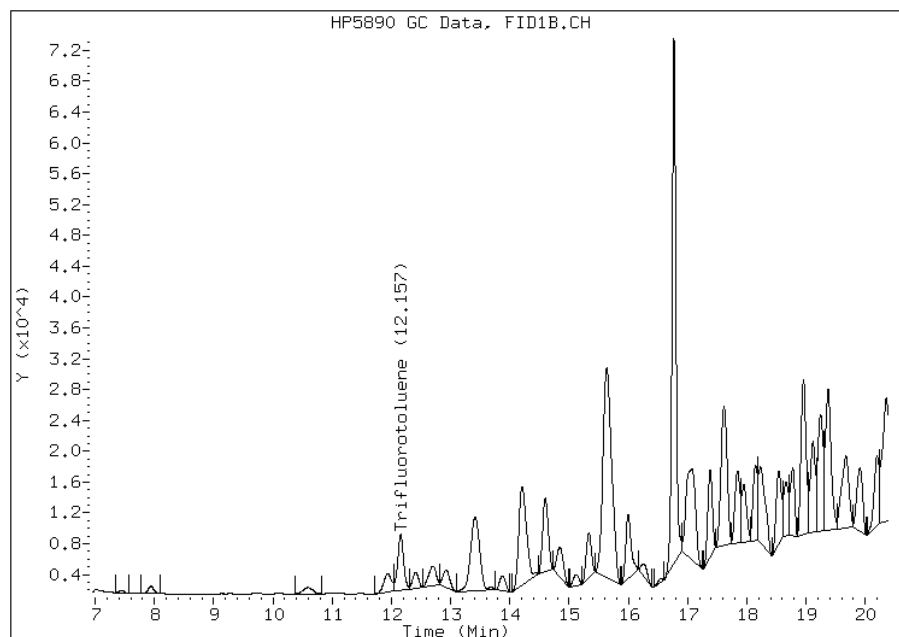
Manually Integrated By: mooret
Modification Date: 26-Aug-2011 11:33
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 130F0601.D
Inj. Date and Time: 25-AUG-2011 14:12
Instrument ID: GC_L.i
Client ID: CHURCH 2, SS-1
Compound: 3 GRO - C6 to C10
CAS #: 8006-61-9
Report Date: 08/26/2011

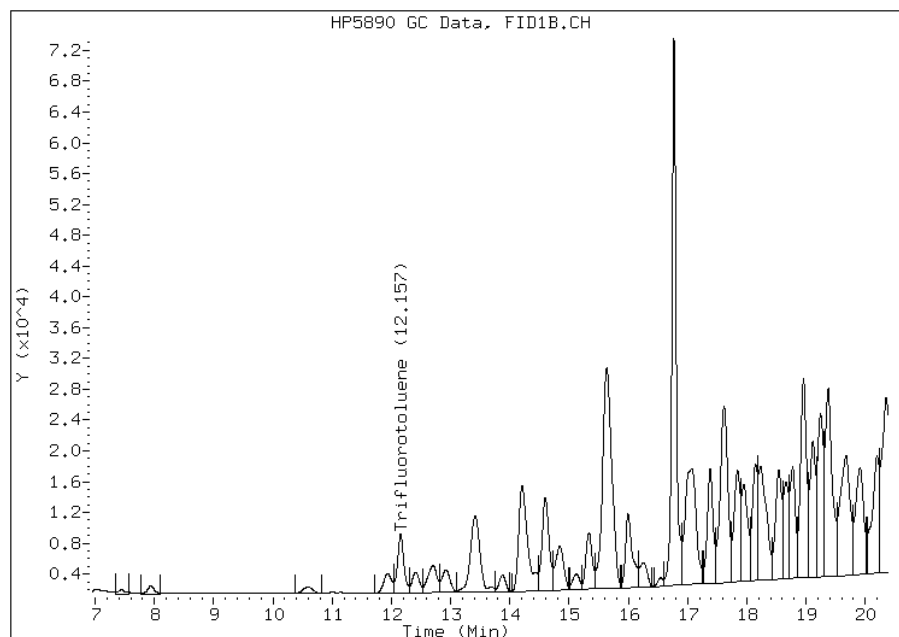
Processing Integration Results

RT: 13.67
Response: 2113991
Amount: 334.50
Conc: 16691.41



Manual Integration Results

RT: 13.67
Response: 3411022
Amount: 537.15
Conc: 134018.47



Manually Integrated By: mooret
Modification Date: 26-Aug-2011 11:33
Manual Integration Reason: Baseline Event

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-19343-1
SDG No.: _____
Client Sample ID: CHURCH 2, SS-2 Lab Sample ID: 280-19343-2
Matrix: Solid Lab File ID: 131F0701.D
Analysis Method: 8015B Date Collected: 08/18/2011 12:45
Sample wt/vol: 10.41(g) Date Analyzed: 08/25/2011 14:50
Soil Aliquot Vol: 5 (mL) Dilution Factor: 1
Soil Extract Vol.: 500(mL) GC Column: RTX 502.2 (105) ID: 0.53(mm)
% Moisture: _____ Level: (low/med) Medium
Analysis Batch No.: 83248 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND		1.2	0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	90		77-123

TestAmerica

VOLATILE REPORT SOW 3/90

Data file : \\DenSvr03\Public\chem\GCV\GC_L.i\0825111.B\131F0701.D
 Lab Smp Id: 280-19343-A-2-D Client Smp ID: CHURCH 2, SS-2
 Inj Date : 25-AUG-2011 14:50
 Operator : AMB Inst ID: GC_L.i
 Smp Info : 280-941805,43-2
 Misc Info : 280-19343-A-2-D
 Comment : REV. OLM01.1.1
 Method : \\DenSvr03\Public\chem\GCV\GC_L.i\0825111.B\8015.m
 Meth Date : 25-Aug-2011 12:51 byla Quant Type: ESTD
 Cal Date : 11-APR-2011 20:10 Cal File: 122F1201.D
 Als bottle: 131
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: GRO.S.01.sub
 Target Version: 4.14
 Processing Host: DENPC369

Concentration Formula: Amt * DF * Uf * Vp/Va * Vf/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1000.000	ng unit correction factor (mg/g)
Ws	10.410	Weight of sample extracted (g)
Vp	5.000	final purge volume (ml)
Va	100.000	vml methanol added to purge vlm (ul)
Vf	10.000	vml methanol used for extraction (ml)
Cpnd Variable		Local Compound Variable

CONCENTRATIONS						
				ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/Kg)
=====	====	=====	=====	=====	=====	=====
\$ 2 Trifluorotoluene	12.146	12.096	0.050	224779	27.0112	1297.37
S 3 GRO - C6 to C10	7.057-20.280			48666	11.8062	567.063(aM)
4 1-Chloro-4-Fluorobenzene	16.773	16.726	0.047	242078	29.3221	1408.36(M)

QC Flag Legend

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

Data File: 131F0701.D

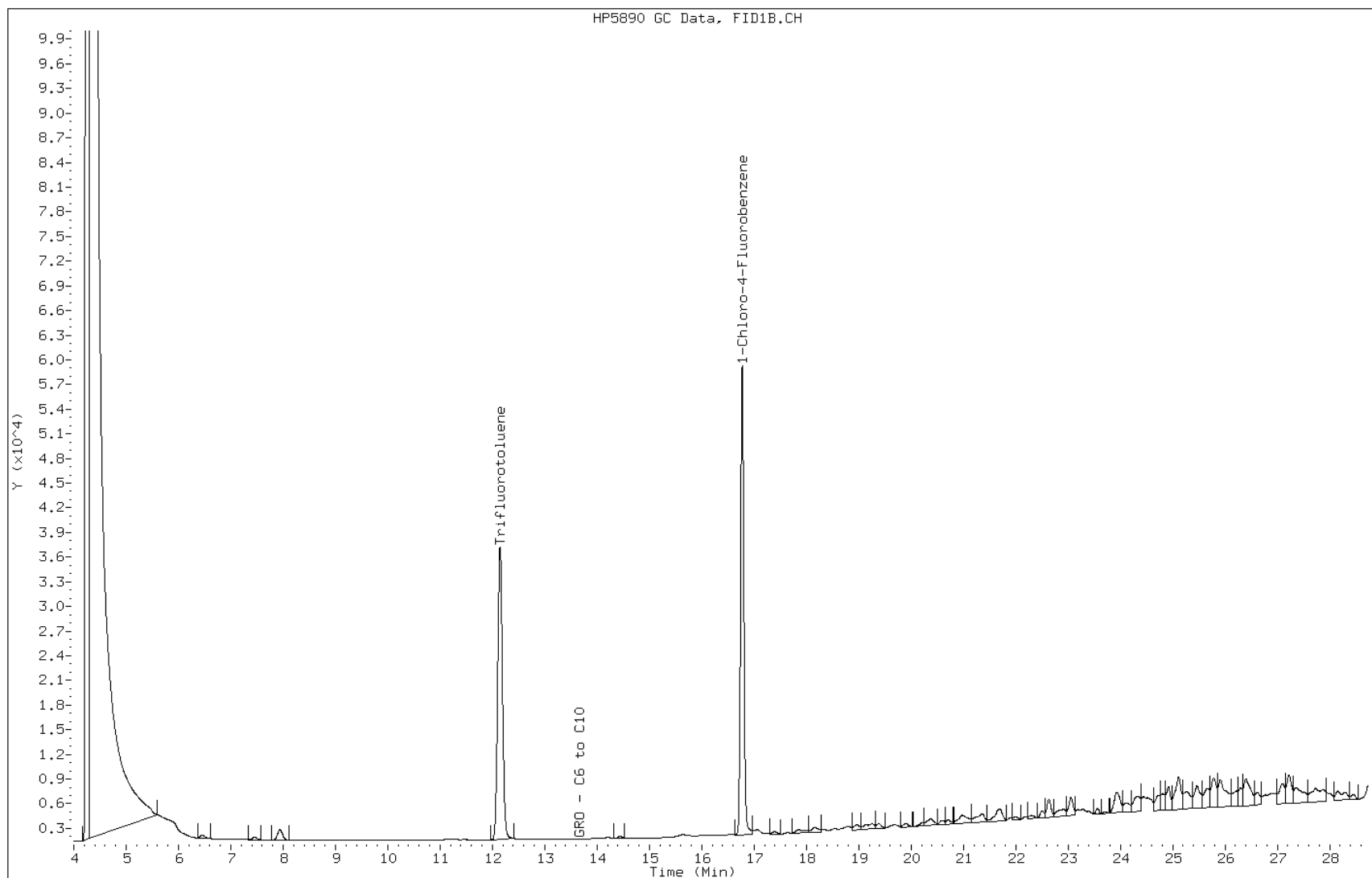
Date: 25-AUG-2011 14:50

Client ID: CHURCH 2, SS-2

Instrument: GC_L.i

Sample Info: 280-941805,43-2

Operator: AMB

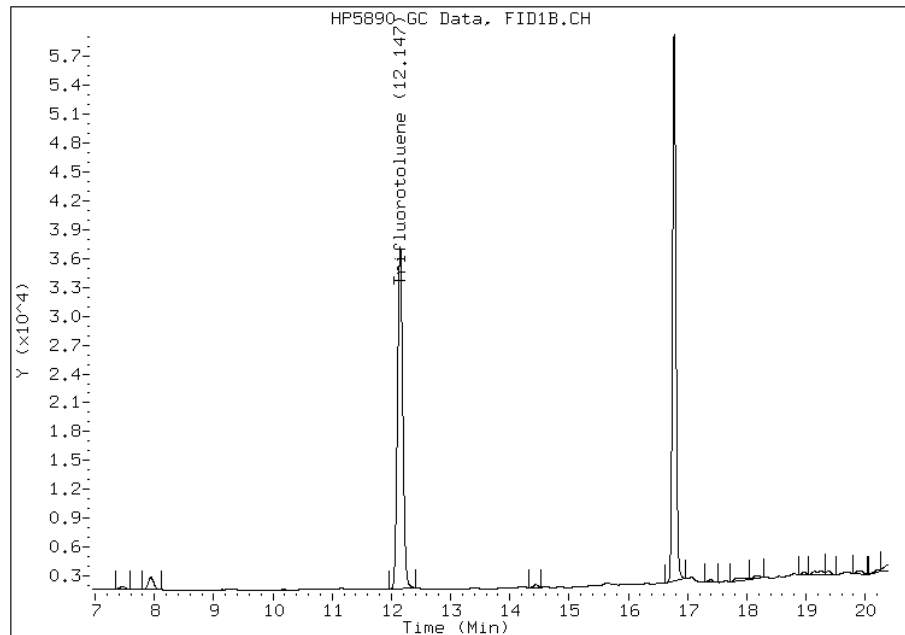


Manual Integration Report

Data File: 131F0701.D
Inj. Date and Time: 25-AUG-2011 14:50
Instrument ID: GC_L.i
Client ID: CHURCH 2, SS-2
Compound: 3 GRO - C6 to C10
CAS #: 8006-61-9
Report Date: 08/26/2011

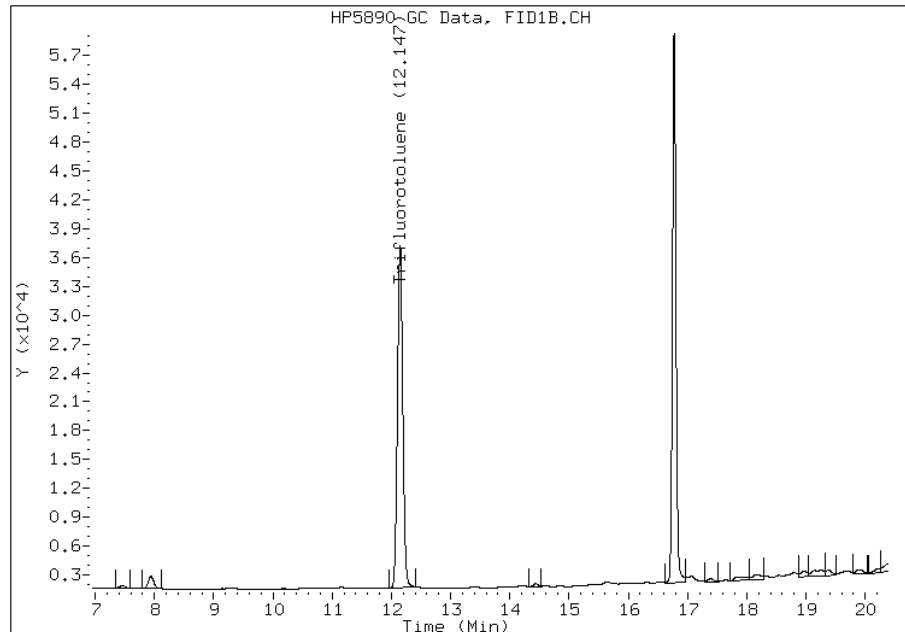
Processing Integration Results

RT: 13.67
Response: 32730
Amount: 9.32
Conc: 447.47



Manual Integration Results

RT: 13.67
Response: 48666
Amount: 11.81
Conc: 567.06



Manually Integrated By: mooret
Modification Date: 26-Aug-2011 11:34
Manual Integration Reason: Baseline Event

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-19343-1
SDG No.: _____
Client Sample ID: CHURCH 2, SS-3 Lab Sample ID: 280-19343-3
Matrix: Solid Lab File ID: 202F1001.D
Analysis Method: 8015B Date Collected: 08/18/2011 12:55
Sample wt/vol: 10.08(g) Date Analyzed: 08/25/2011 16:43
Soil Aliquot Vol: 5 (mL) Dilution Factor: 1
Soil Extract Vol.: 500(mL) GC Column: RTX 502.2 (105) ID: 0.53(mm)
% Moisture: _____ Level: (low/med) Medium
Analysis Batch No.: 83248 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND		1.2	0.32

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	78		77-123

TestAmerica

VOLATILE REPORT SOW 3/90

Data file : \\DenSvr03\Public\chem\GCV\GC_L.i\0825111.B\202F1001.D
 Lab Smp Id: 280-19343-A-3-E Client Smp ID: CHURCH 2, SS-3
 Inj Date : 25-AUG-2011 16:43
 Operator : AMB Inst ID: GC_L.i
 Smp Info : 280-941808,43-3
 Misc Info : 280-19343-A-3-E
 Comment : REV. OLM01.1.1
 Method : \\DenSvr03\Public\chem\GCV\GC_L.i\0825111.B\8015.m
 Meth Date : 25-Aug-2011 12:51 byla Quant Type: ESTD
 Cal Date : 11-APR-2011 20:10 Cal File: 122F1201.D
 Als bottle: 202
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: GRO.S.01.sub
 Target Version: 4.14
 Processing Host: DENPC369

Concentration Formula: Amt * DF * Uf * Vp/Va * Vf/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1000.000	ng unit correction factor (mg/g)
Ws	10.080	Weight of sample extracted (g)
Vp	5.000	final purge volume (ml)
Va	100.000	vlm methanol added to purge vlm (ul)
Vf	10.000	vlm methanol used for extraction (ml)
Cpnd Variable		Local Compound Variable

		CONCENTRATIONS					
		RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/Kg)
Compounds							
\$	2 Trifluorotoluene	12.166	12.096	0.070	194407	23.4133	1161.37(M)
S	3 GRO - C6 to C10	7.057-20.280			51359	12.2270	606.498(aM)
	4 1-Chloro-4-Fluorobenzene	16.786	16.726	0.060	216583	26.2661	1302.88(M)

QC Flag Legend

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

Data File: 202F1001.D

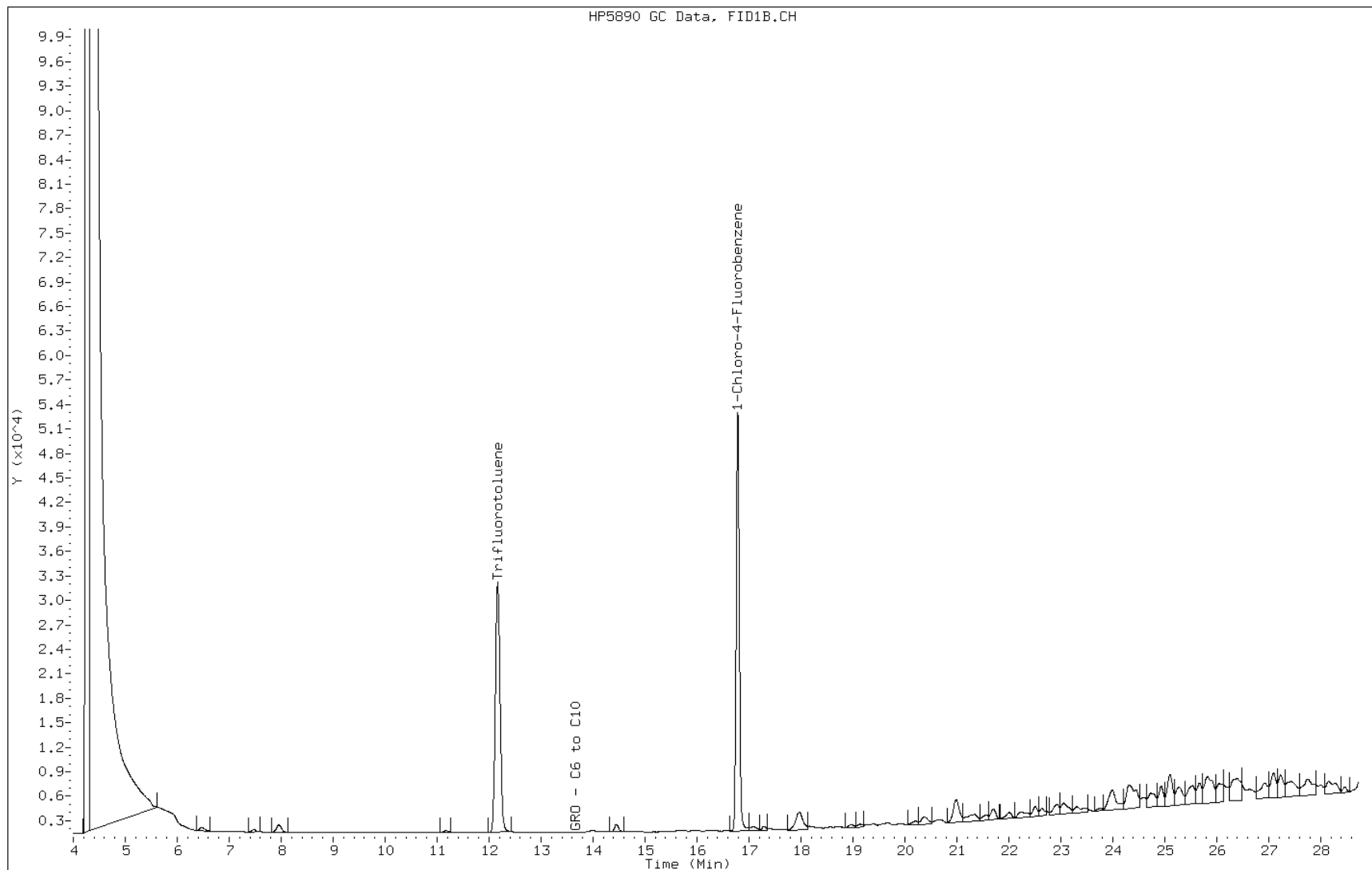
Date: 25-AUG-2011 16:43

Client ID: CHURCH 2, SS-3

Instrument: GC_L.i

Sample Info: 280-941808,43-3

Operator: AMB



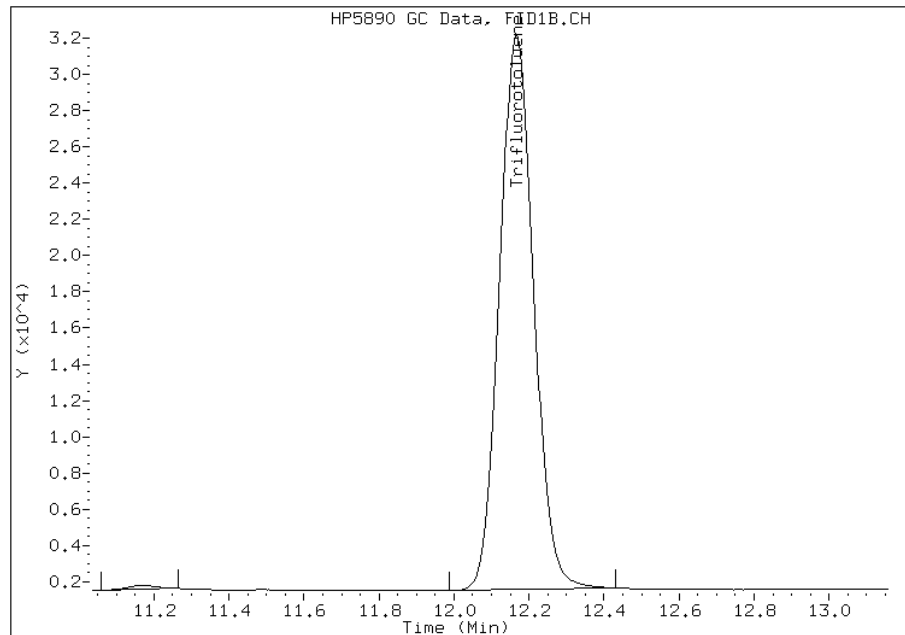
Manual Integration Report

Data File: 202F1001.D
Inj. Date and Time: 25-AUG-2011 16:43
Instrument ID: GC_L.i
Client ID: CHURCH 2, SS-3
Compound: 2 Trifluorotoluene
CAS #: 98-08-8
Report Date: 08/26/2011

Processing Integration Results

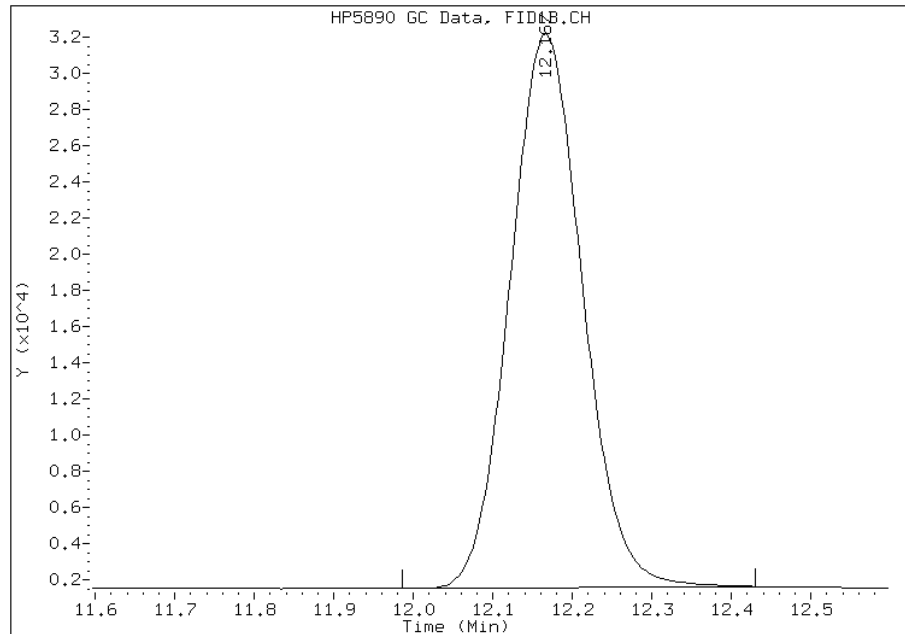
Not Detected

Expected RT: 12.10



Manual Integration Results

RT: 12.17
Response: 194407
Amount: 23.41
Conc: 1161.37



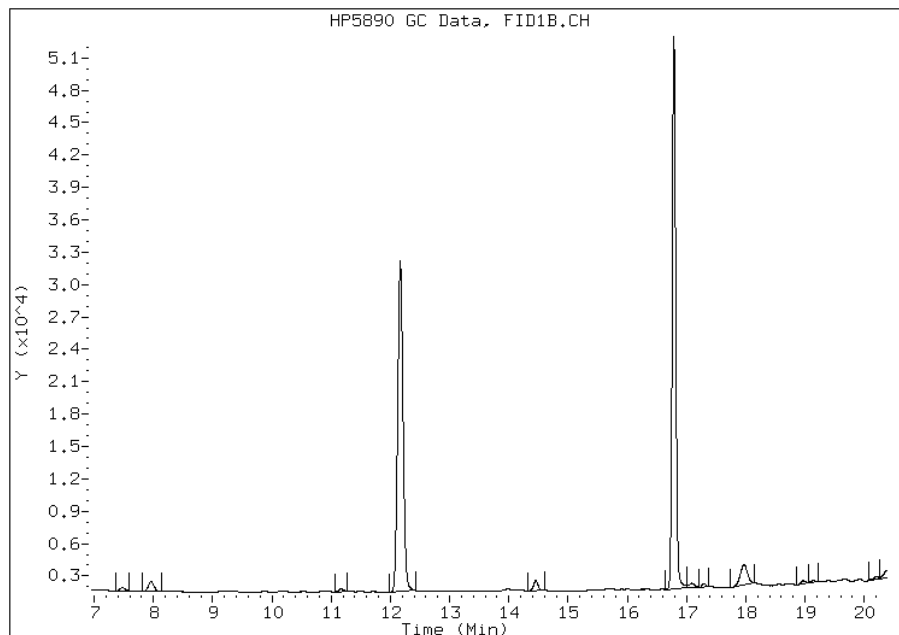
Manually Integrated By: mooret
Modification Date:
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 202F1001.D
Inj. Date and Time: 25-AUG-2011 16:43
Instrument ID: GC_L.i
Client ID: CHURCH 2, SS-3
Compound: 3 GRO - C6 to C10
CAS #: 8006-61-9
Report Date: 08/26/2011

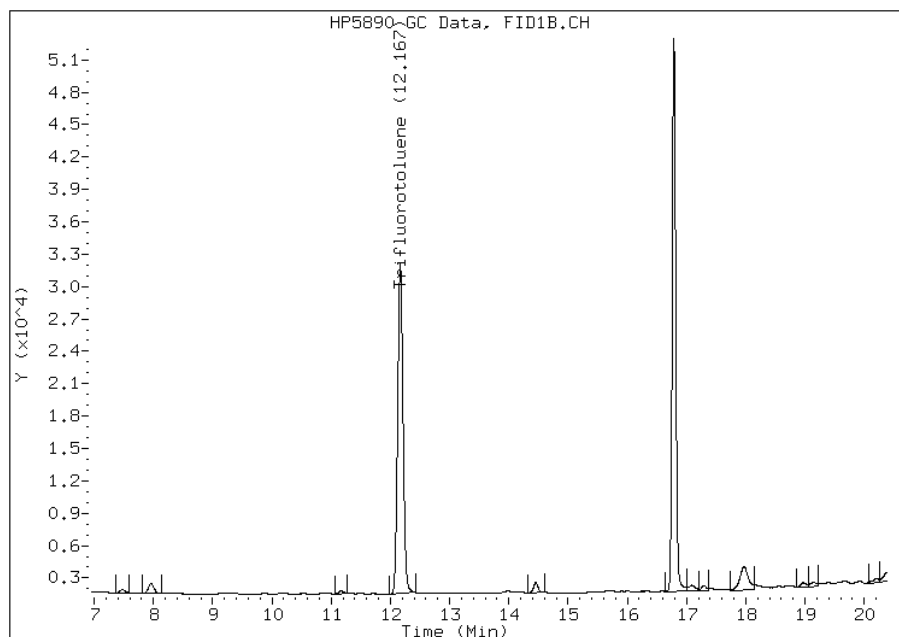
Processing Integration Results

RT: 13.67
Response: 39234
Amount: 10.33
Conc: 512.53



Manual Integration Results

RT: 13.67
Response: 51359
Amount: 12.23
Conc: 606.50



Manually Integrated By: mooret
Modification Date: 26-Aug-2011 11:36
Manual Integration Reason: Baseline Event

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.: 280-19343-1
SDG No.: _____
Client Sample ID: CHURCH 2, SS-1 Lab Sample ID: 280-19343-1
Matrix: Solid Lab File ID: 008B0801.D
Analysis Method: 8015B Date Collected: 08/18/2011 12:35
Extraction Method: 3546 Date Extracted: 08/23/2011 21:00
Sample wt/vol: 31.7 (g) Date Analyzed: 08/24/2011 23:46
Con. Extract Vol.: 4000 (uL) Dilution Factor: 10
Injection Volume: 1 (uL) GC Column: RTX-1 (30.32) ID: 0.25 (mm)
% Moisture: 11.0 GPC Cleanup: (Y/N) N
Analysis Batch No.: 83503 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	15000		170	29
STL00158	Motor Oil Range Organics [C24-C36]	12000		510	170

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	49-115

Data File: \\DenSvr03\Public\chem\GCS\GC_U.i\082411c1.B\008B0801.D
Report Date: 29-Aug-2011 11:58

TestAmerica

SW846 8015 mod.

Data file : \\DenSvr03\Public\chem\GCS\GC_U.i\082411c1.B\008B0801.D
Lab Smp Id: 280-19343-A-1-C Client Smp ID: CHURCH 2, SS-1
Inj Date : 24-AUG-2011 23:46
Operator : MB Inst ID: GC_U.i
Smp Info : 280-938570,43-1
Misc Info : 280-19343-A-1-C
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_U.i\082411c1.B\DR01.m
Meth Date : 29-Aug-2011 11:53 birdsellm Quant Type: ESTD
Cal Date : 19-JUL-2011 13:56 Cal File: 012B1201.D
Als bottle: 8
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: C10-28(DRO).sub
Target Version: 4.14
Processing Host: DENPC248

Concentration Formula: Amt * DF * Vf/Ws * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Vf	4000.000	Final Volume of Extract (uL)
Ws	31.700	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds					CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====
S 3 C10-C28	0.907-7.617			27859650	10898.6	13750000(M)
S 178 C10-25	0.907-7.007			22031895	8627.25	10890000(M)
S 180 C25-36	7.007-8.997			16978631	9181.14	11580000(M)
S 173 C24-C36	6.800-8.997			18532297	8694.50	10970000(M)
\$ 1 o-Terphenyl	Compound Not Detected.					
\$ 6 n-Octacosane	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Data File: 008B0801.D

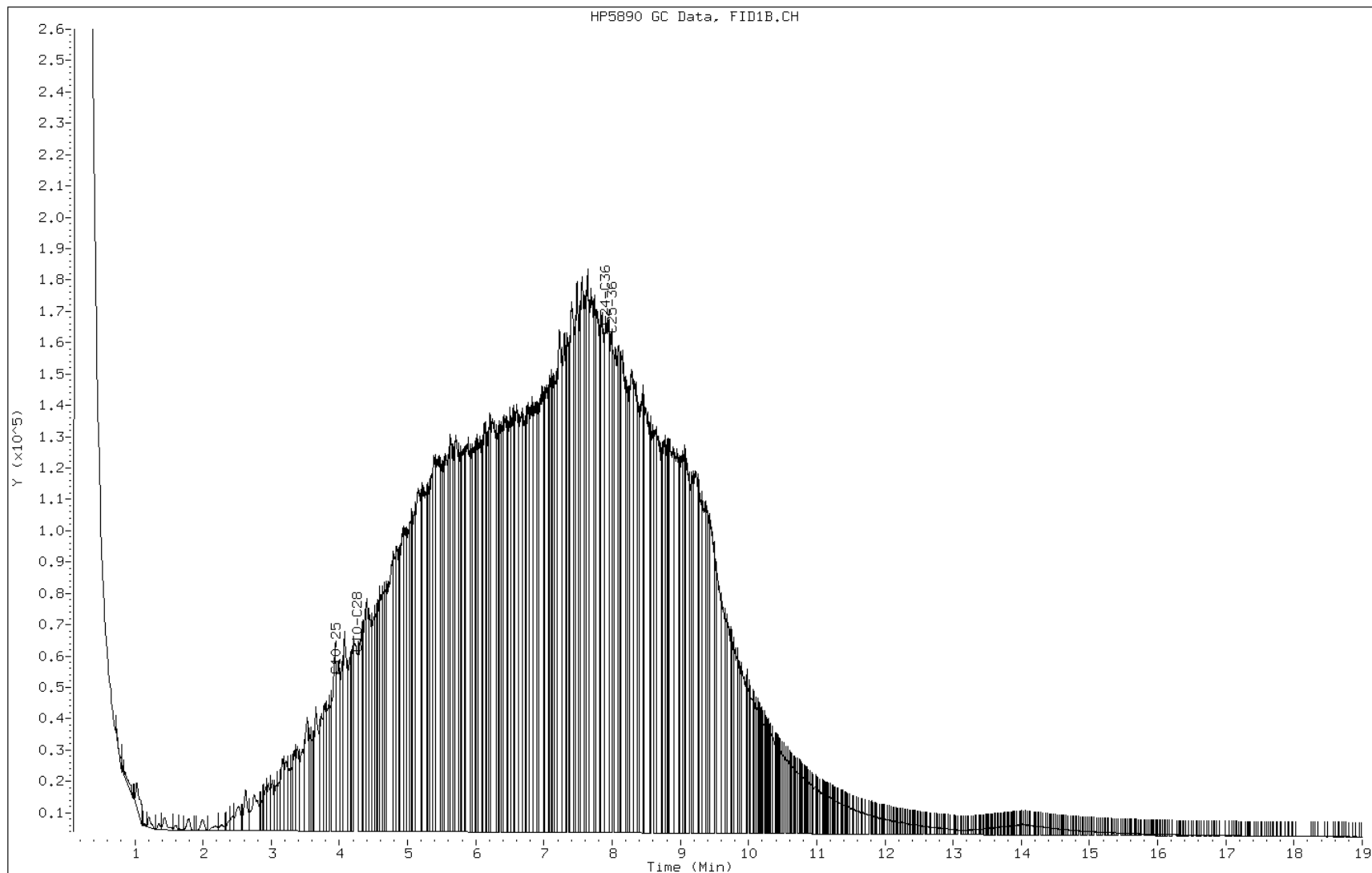
Date: 24-AUG-2011 23:46

Client ID: CHURCH 2, SS-1

Instrument: GC_U.i

Sample Info: 280-938570,43-1

Operator: MB

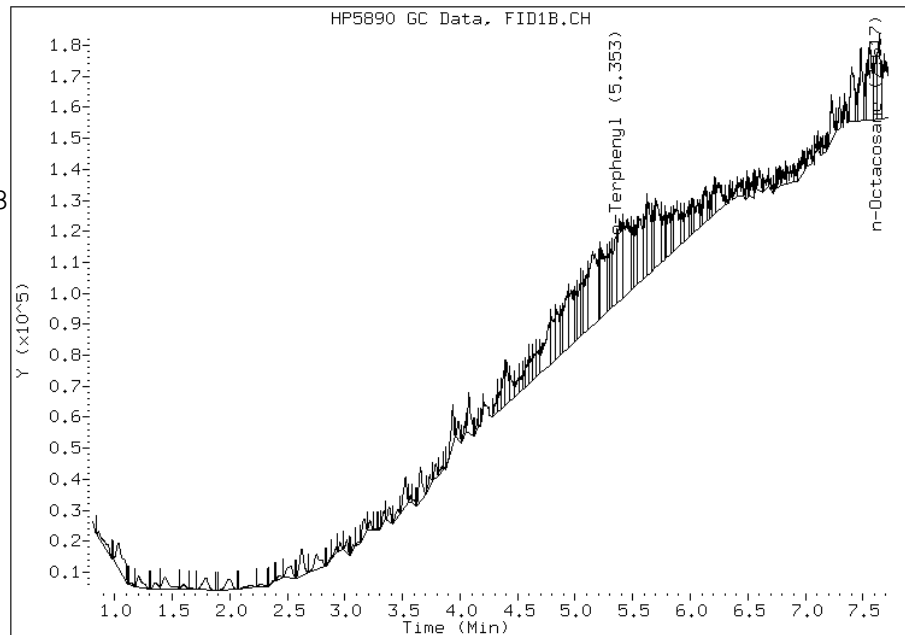


Manual Integration Report

Data File: 008B0801.D
Inj. Date and Time: 24-AUG-2011 23:46
Instrument ID: GC_U.i
Client ID: CHURCH 2, SS-1
Compound: 3 C10-C28
CAS #: STL00143
Report Date: 08/29/2011

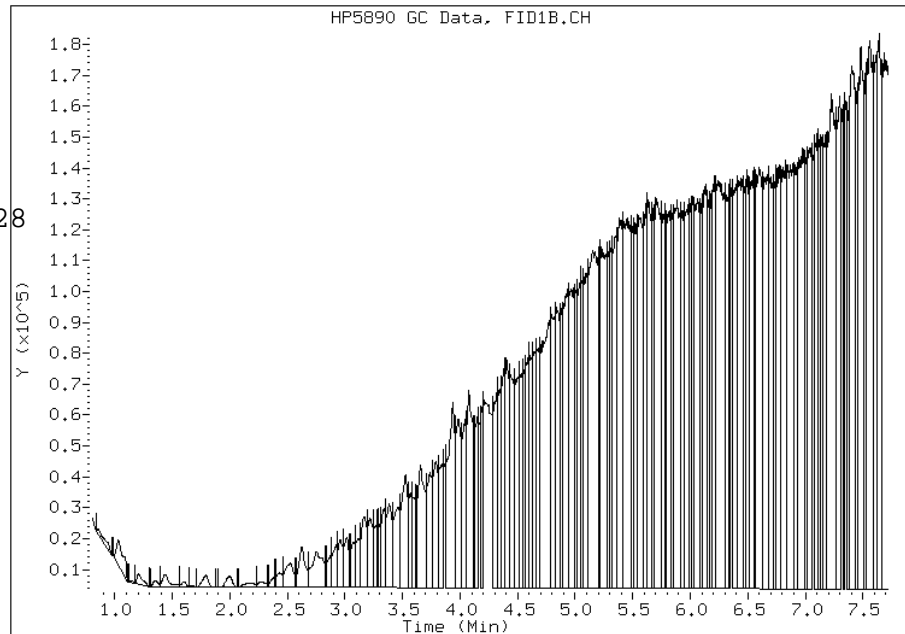
Processing Integration Results

RT: 4.26
Response: 2178420
Amount: 852.19
Conc: 1075318.78



Manual Integration Results

RT: 4.26
Response: 27859650
Amount: 10898.60
Conc: 13752171.28



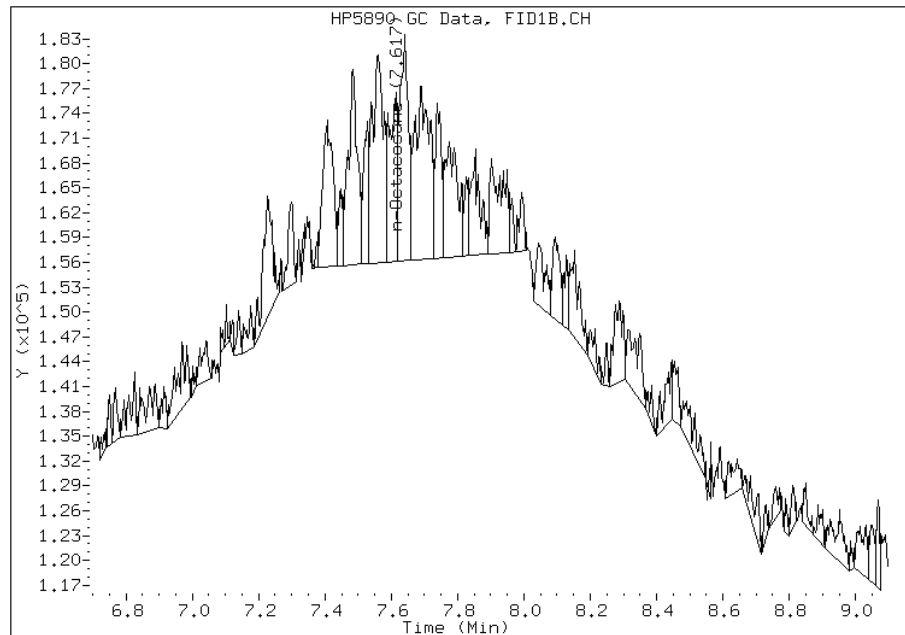
Manually Integrated By: birdsellm
Modification Date:
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 008B0801.D
Inj. Date and Time: 24-AUG-2011 23:46
Instrument ID: GC_U.i
Client ID: CHURCH 2, SS-1
Compound: 173 C24-C36
CAS #: STL00158
Report Date: 08/29/2011

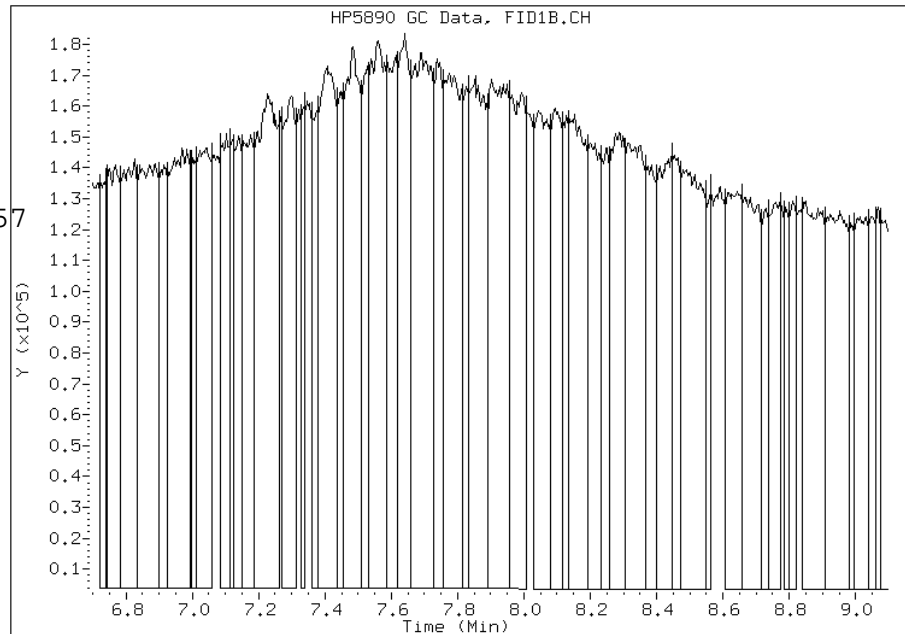
Processing Integration Results

RT: 7.90
Response: 710653
Amount: 333.41
Conc: 420701.20



Manual Integration Results

RT: 7.90
Response: 18532297
Amount: 8694.50
Conc: 10970979.57



Manually Integrated By: birdsellm
Modification Date: 29-Aug-2011 11:58
Manual Integration Reason: Baseline Event

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-19343-1
SDG No.: _____
Client Sample ID: CHURCH 2, SS-2 Lab Sample ID: 280-19343-2
Matrix: Solid Lab File ID: 007B0701.D
Analysis Method: 8015B Date Collected: 08/18/2011 12:45
Extraction Method: 3546 Date Extracted: 08/23/2011 21:00
Sample wt/vol: 30.2(g) Date Analyzed: 08/26/2011 13:21
Con. Extract Vol.: 1000(uL) Dilution Factor: 10
Injection Volume: 1(uL) GC Column: RTX-1 (30.32) ID: 0.25(mm)
% Moisture: 6.6 GPC Cleanup: (Y/N) N
Analysis Batch No.: 83509 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	680		43	7.2
STL00158	Motor Oil Range Organics [C24-C36]	740		130	42

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	49-115

Data File: \\DenSvr03\Public\chem\GCS\GC_U.i\082611b1.B\007B0701.D
Report Date: 29-Aug-2011 12:11

TestAmerica

SW846 8015 mod.

Data file : \\DenSvr03\Public\chem\GCS\GC_U.i\082611b1.B\007B0701.D
Lab Smp Id: 280-19343-A-2-B Client Smp ID: CHURCH 2, SS-2
Inj Date : 26-AUG-2011 13:21
Operator : MB Inst ID: GC_U.i
Smp Info : 280-938571,43-2
Misc Info : 280-19343-A-2-B
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_U.i\082611b1.B\DR01.m
Meth Date : 29-Aug-2011 12:05 birdsellm Quant Type: ESTD
Cal Date : 19-JUL-2011 13:56 Cal File: 012B1201.D
Als bottle: 7
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: C10-28(DRO).sub
Target Version: 4.14
Processing Host: DENPC248

Concentration Formula: Amt * DF * Vf/Ws * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Vf	1000.000	Final Volume of Extract (uL)
Ws	30.200	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds					CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====
S 3 C10-C28	0.920-7.610			4869637	1904.98	630800(M)
S 178 C10-25	0.920-6.990			3047383	1193.29	395100(M)
S 180 C25-36	6.990-9.000			4074198	2203.11	729500(M)
S 173 C24-C36	6.810-9.000			4447569	2086.59	690900(M)
\$ 1 o-Terphenyl	Compound Not Detected.					
\$ 6 n-Octacosane	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Data File: 007B0701.D

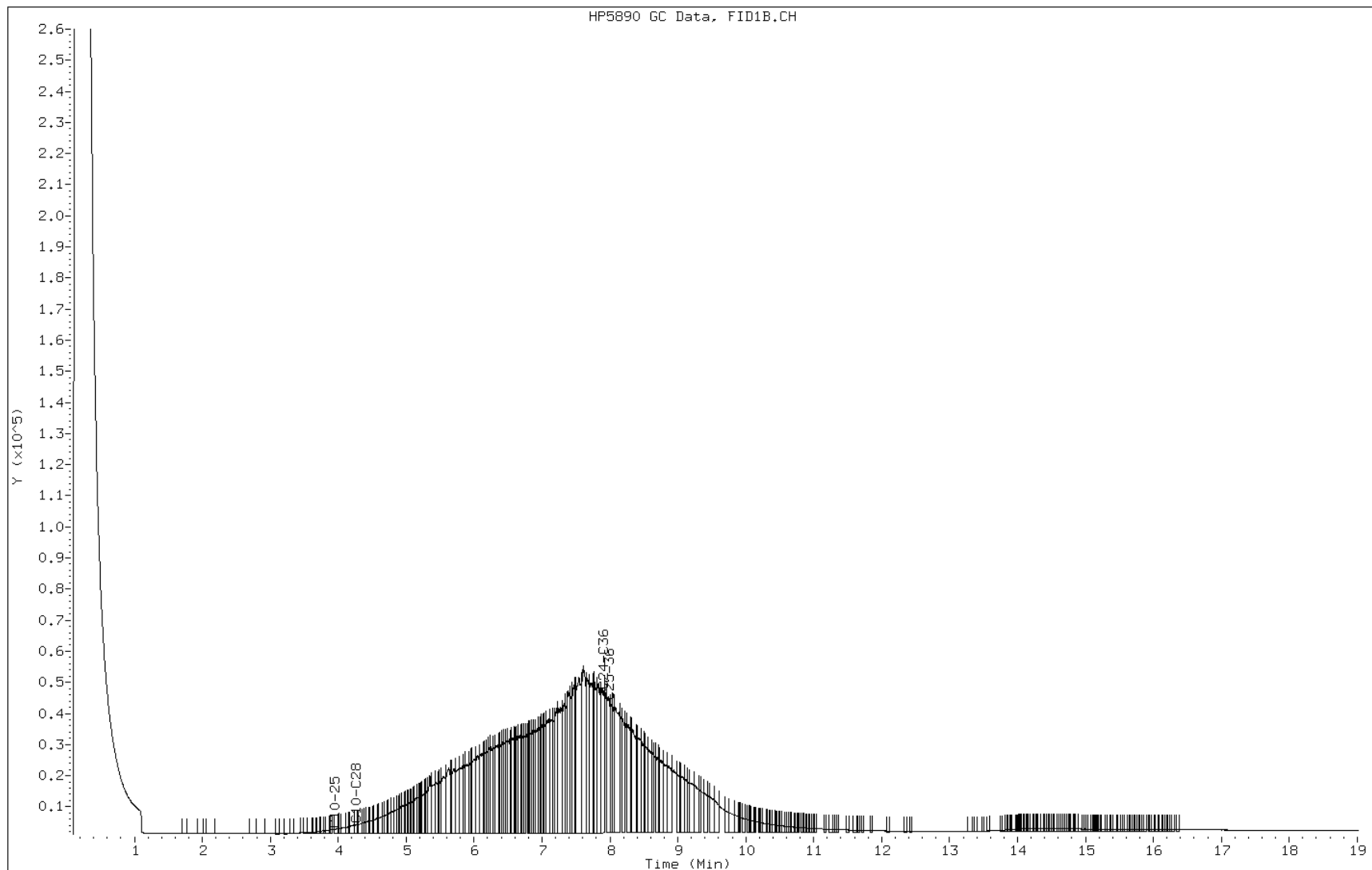
Date: 26-AUG-2011 13:21

Client ID: CHURCH 2, SS-2

Instrument: GC_U.i

Sample Info: 280-938571,43-2

Operator: MB

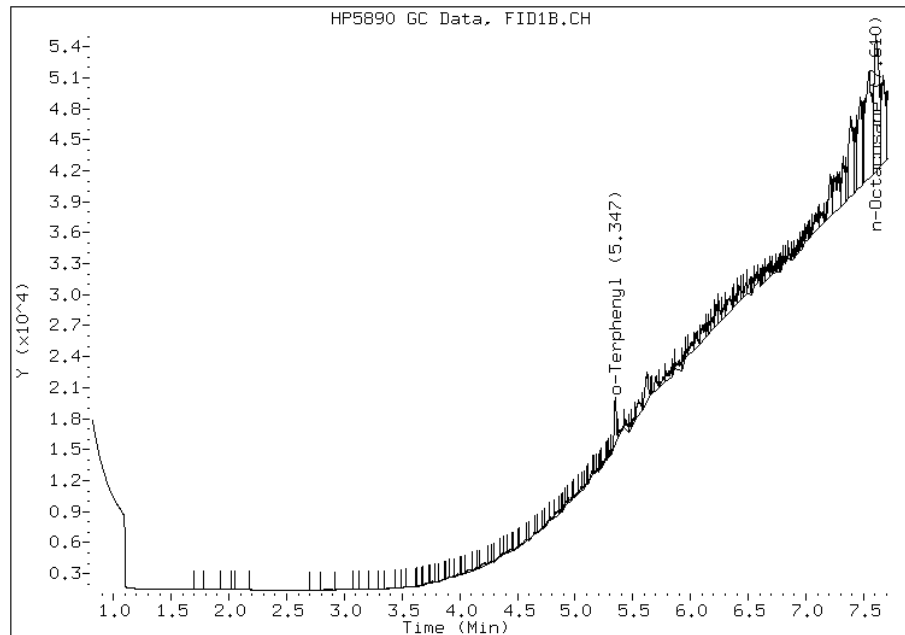


Manual Integration Report

Data File: 007B0701.D
Inj. Date and Time: 26-AUG-2011 13:21
Instrument ID: GC_U.i
Client ID: CHURCH 2, SS-2
Compound: 3 C10-C28
CAS #: STL00143
Report Date: 08/29/2011

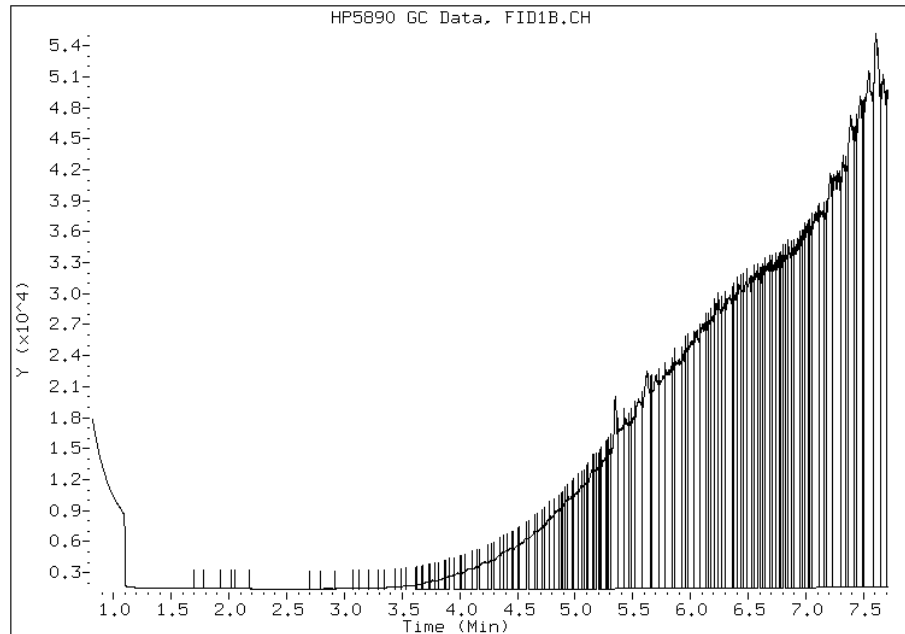
Processing Integration Results

RT: 4.26
Response: 209286
Amount: 81.87
Conc: 27109.91



Manual Integration Results

RT: 4.27
Response: 4869637
Amount: 1904.98
Conc: 630789.61



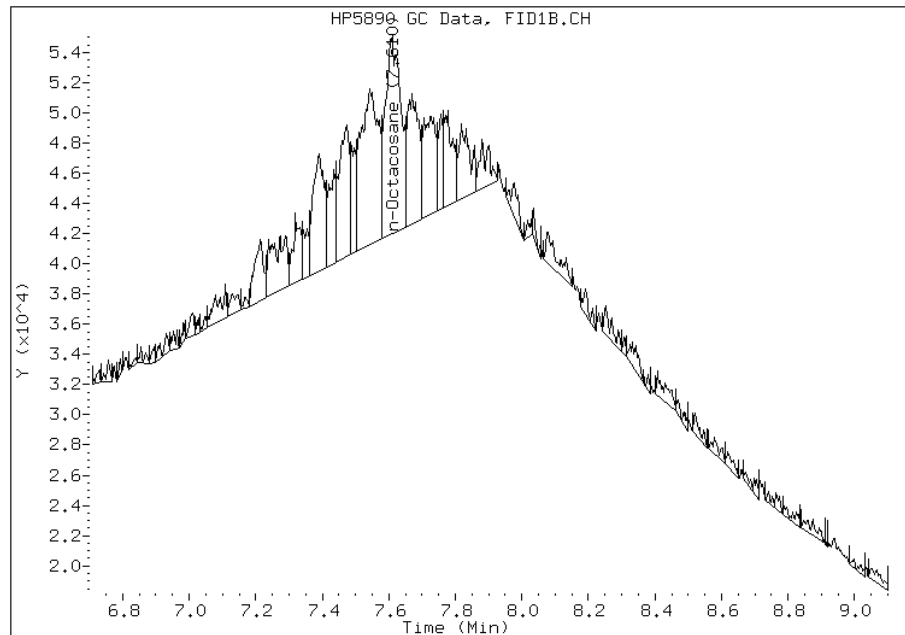
Manually Integrated By: birdsellm
Modification Date:
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 007B0701.D
Inj. Date and Time: 26-AUG-2011 13:21
Instrument ID: GC_U.i
Client ID: CHURCH 2, SS-2
Compound: 173 C24-C36
CAS #: STL00158
Report Date: 08/29/2011

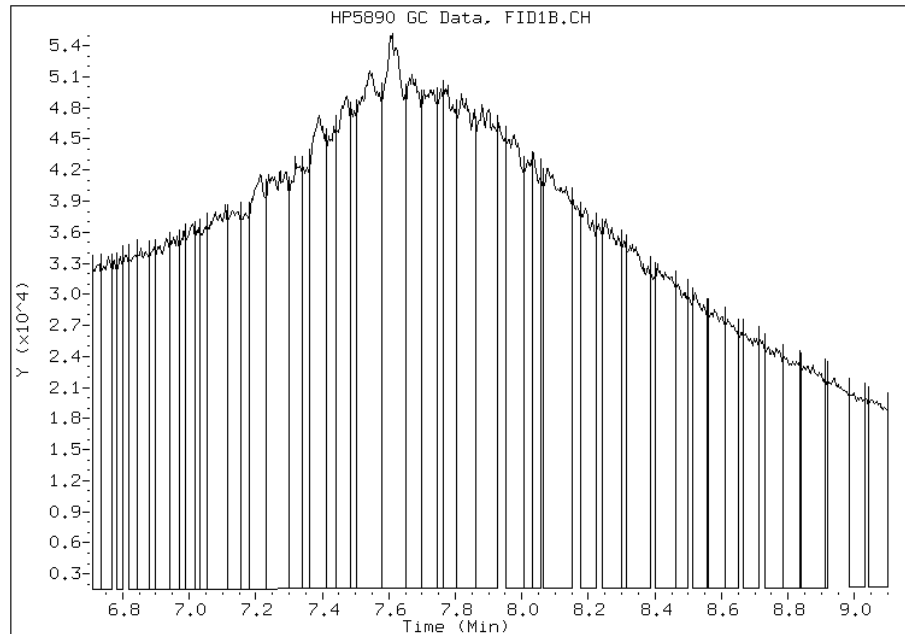
Processing Integration Results

RT: 7.91
Response: 244585
Amount: 114.75
Conc: 37996.04



Manual Integration Results

RT: 7.91
Response: 4447569
Amount: 2086.59
Conc: 690925.43



Manually Integrated By: birdsellm
Modification Date: 29-Aug-2011 12:09
Manual Integration Reason: Baseline Event

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-19343-1
SDG No.: _____
Client Sample ID: CHURCH 2, SS-3 Lab Sample ID: 280-19343-3
Matrix: Solid Lab File ID: 010B1001.D
Analysis Method: 8015B Date Collected: 08/18/2011 12:55
Extraction Method: 3546 Date Extracted: 08/23/2011 21:00
Sample wt/vol: 31.2(g) Date Analyzed: 08/25/2011 00:41
Con. Extract Vol.: 2000(uL) Dilution Factor: 10
Injection Volume: 1(uL) GC Column: RTX-1 (30.32) ID: 0.25(mm)
% Moisture: 10.7 GPC Cleanup: (Y/N) N
Analysis Batch No.: 83503 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	7400		86	15
STL00158	Motor Oil Range Organics [C24-C36]	4400		260	84

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	49-115

Data File: \\DenSvr03\Public\chem\GCS\GC_U.i\082411c1.B\010B1001.D
Report Date: 29-Aug-2011 11:58

TestAmerica

SW846 8015 mod.

Data file : \\DenSvr03\Public\chem\GCS\GC_U.i\082411c1.B\010B1001.D
Lab Smp Id: 280-19343-A-3-C Client Smp ID: CHURCH 2, SS-3
Inj Date : 25-AUG-2011 00:41
Operator : MB Inst ID: GC_U.i
Smp Info : 280-938572,3
Misc Info : 280-19343-A-3-C
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_U.i\082411c1.B\DR01.m
Meth Date : 29-Aug-2011 11:53 birdsellm Quant Type: ESTD
Cal Date : 19-JUL-2011 13:56 Cal File: 012B1201.D
Als bottle: 10
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: C10-28(DRO).sub
Target Version: 4.14
Processing Host: DENPC248

Concentration Formula: Amt * DF * Vf/Ws * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Vf	2000.000	Final Volume of Extract (uL)
Ws	31.200	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds					CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====
S 3 C10-C28	0.907-7.617			26296534	10287.1	6594000(M)
S 178 C10-25	0.907-7.007			21504690	8420.81	5398000(M)
S 180 C25-36	7.007-8.997			12392906	6701.43	4296000(M)
S 173 C24-C36	6.800-8.997			13168863	6178.22	3960000(M)
\$ 1 o-Terphenyl	Compound Not Detected.					
\$ 6 n-Octacosane	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Data File: 010B1001.D

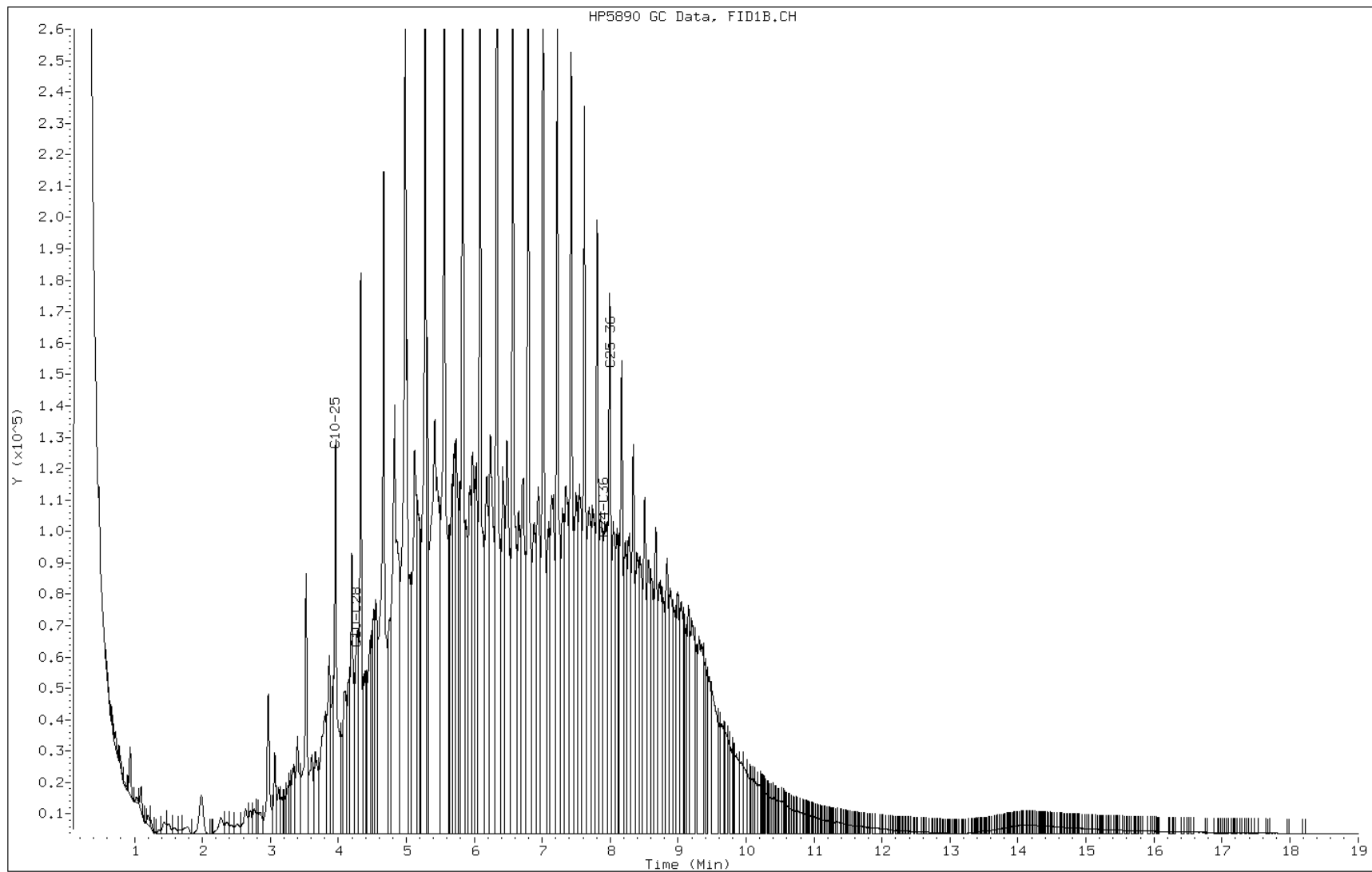
Date: 25-AUG-2011 00:41

Client ID: CHURCH 2, SS-3

Instrument: GC_U.i

Sample Info: 280-938572,3

Operator: MB

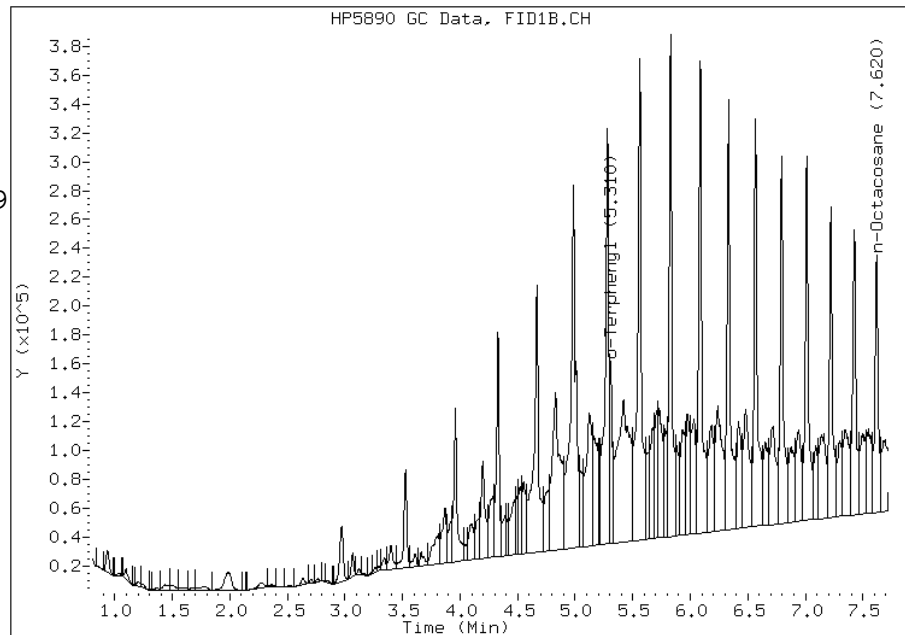


Manual Integration Report

Data File: 010B1001.D
Inj. Date and Time: 25-AUG-2011 00:41
Instrument ID: GC_U.i
Client ID: CHURCH 2, SS-3
Compound: 3 C10-C28
CAS #: STL00143
Report Date: 08/29/2011

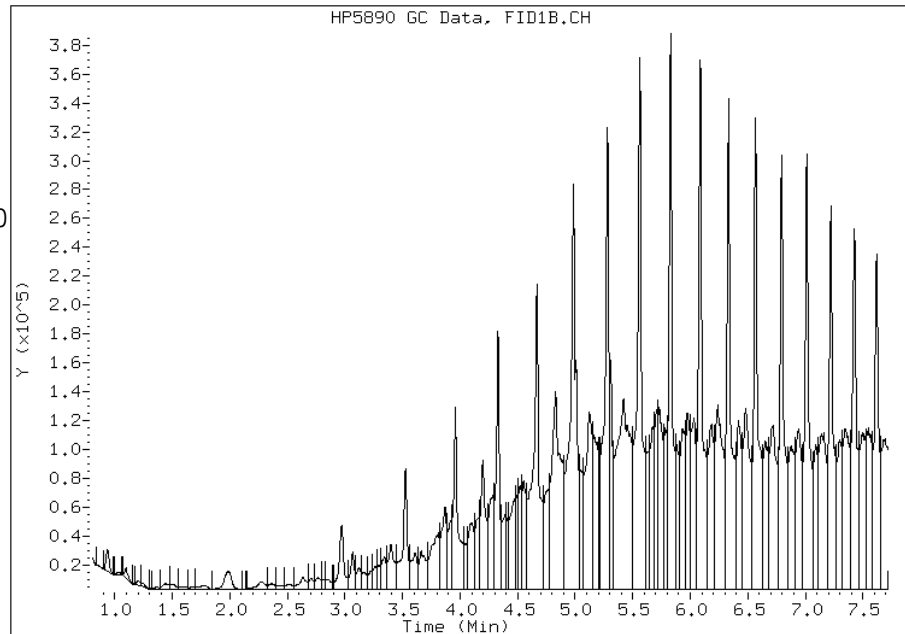
Processing Integration Results

RT: 4.26
Response: 16087913
Amount: 6293.53
Conc: 4034316.79



Manual Integration Results

RT: 4.26
Response: 26296534
Amount: 10287.11
Conc: 6594301.50



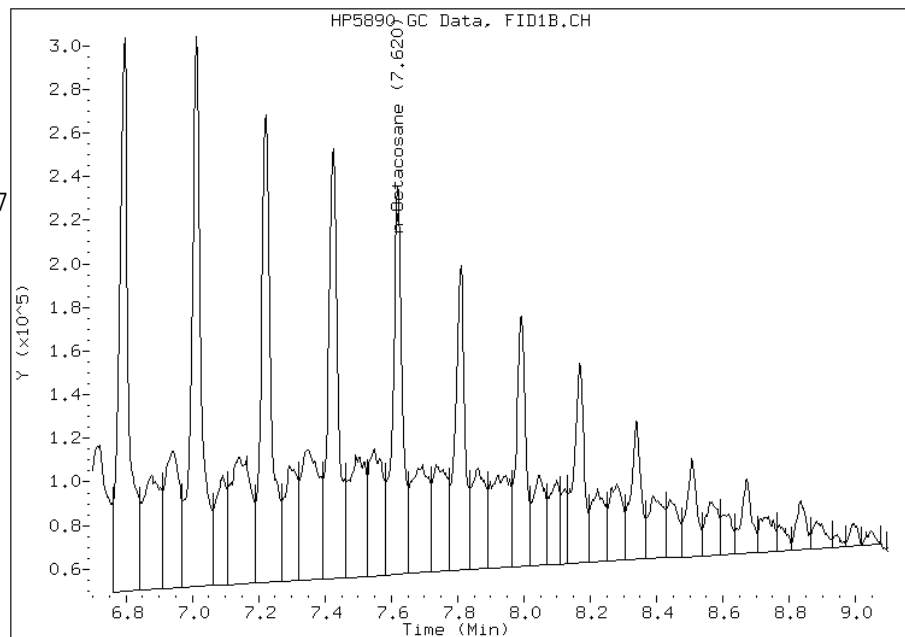
Manually Integrated By: birdsellm
Modification Date:
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 010B1001.D
Inj. Date and Time: 25-AUG-2011 00:41
Instrument ID: GC_U.i
Client ID: CHURCH 2, SS-3
Compound: 173 C24-C36
CAS #: STL00158
Report Date: 08/29/2011

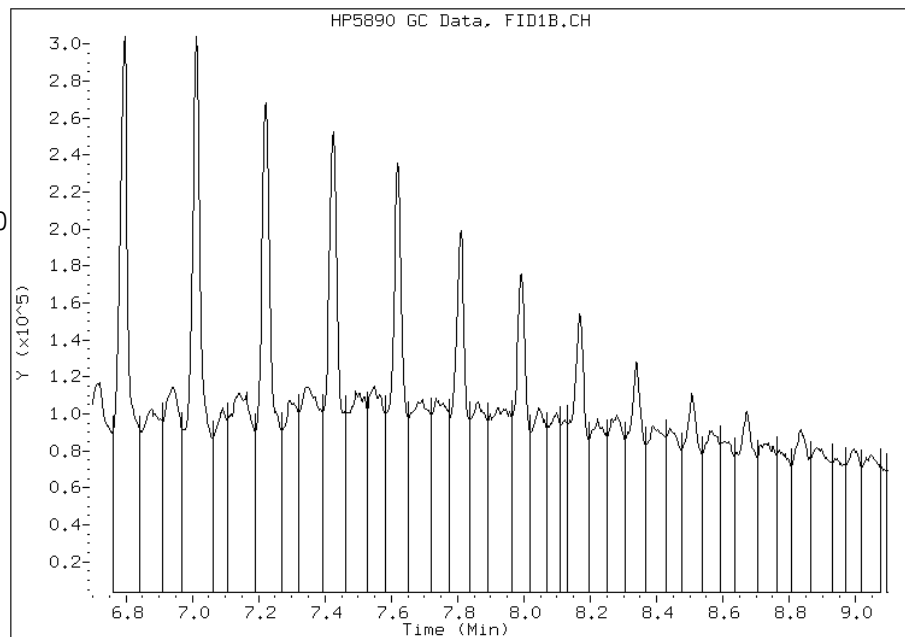
Processing Integration Results

RT: 7.90
Response: 5354095
Amount: 2511.90
Conc: 1610189.17



Manual Integration Results

RT: 7.90
Response: 13168863
Amount: 6178.22
Conc: 3960400.50



Manually Integrated By: birdsellm
Modification Date: 29-Aug-2011 11:58
Manual Integration Reason: Baseline Event

Shipping and Receiving Documents

Login Sample Receipt Checklist

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-19343-1

Login Number: 19343

List Source: TestAmerica Denver

List Number: 1

Creator: Philipp, Nicholas A

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.	True	
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	