

ANALYTICAL REPORT

Job Number: 280-5486-1

Job Description: King Complaint #200262233

For:


Colorado Oil&Gas Conservation Commision

1120 Lincoln St.

Suite 801

Denver, CO 80203

Attention: John Axelson



Approved for release.
Katie Abbott
Project Mgmt. Assistant
8/5/2010 2:43 PM

Designee for
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08/05/2010

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

The Lab Certification ID# is E87667.

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

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CASE NARRATIVE

Client: Colorado Oil&Gas Conservation Commision

Project: King Complaint #200262233

Report Number: 280-5486-1

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 07/20/2010; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.7C.

VOLATILE ORGANIC COMPOUNDS (GC)

Sample KING WATER WELL (280-5486-1) was analyzed for volatile organic compounds (GC) in accordance with EPA SW-846 Method 8021B. The samples were analyzed on 07/26/2010.

TestAmerica Denver's practice for the reporting of dual column data is to report the surrogates from both columns, and the preferred result for any given target analyte from the analyst selected column. The preferred results for target analytes and surrogates are reported as PRIMARY on the Sample Datasheets.

No difficulties were encountered during the VOC analysis.

All quality control parameters were within the acceptance limits.

DISSOLVED GASES

Sample KING WATER WELL (280-5486-1) was analyzed for dissolved gases in accordance with RSK_175. The samples were analyzed on 07/21/2010.

TestAmerica Denver's practice for the reporting of dual column data is to report the surrogates from both columns, and the preferred result for any given target analyte from the analyst selected column. The preferred results for target analytes and surrogates are reported as PRIMARY on the Sample Datasheets.

The Method required MS/MSD could not be performed for analytical batch 280-23858, due to insufficient sample volume submitted. Method precision and accuracy have been verified by the acceptable LCS/LCSD analysis data.

No difficulties were encountered during the dissolved gases analysis.

All quality control parameters were within the acceptance limits.

SODIUM ABSORPTION RATIO

Sample KING WATER WELL (280-5486-1) was analyzed for Sodium Absorption Ratio in accordance with USDA Handbook 60 - 20B. The samples were analyzed on 08/03/2010.

No difficulties were encountered during the SAR analysis.

All quality control parameters were within the acceptance limits.

TOTAL METALS

Sample KING WATER WELL (280-5486-1) was analyzed for total metals in accordance with EPA SW-846 Method 6010B. The samples were prepared on 07/24/2010 and analyzed on 07/27/2010 and 07/29/2010. Sample KING WATER WELL (280-5486-1) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 07/21/2010 and analyzed on 07/27/2010.

The MS/MSD was performed on an unrelated sample and was qualified with a '4' for calcium, magnesium and sodium. The analytes present in the original sample were four times greater than the matrix spike concentration; therefore, control limits are not applicable.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

ANIONS - NO₂, NO₃, Br, SO₄, Cl, F

Sample KING WATER WELL (280-5486-1) was analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 07/20/2010.

Sample KING WATER WELL (280-5486-1)[5X] required dilution prior to analysis for Sulfate. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the anions analysis.

All quality control parameters were within the acceptance limits.

CATION ANION BALANCE

Sample KING WATER WELL (280-5486-1) was analyzed for Cation Anion Balance in accordance with Cation Anion Balance. The samples were analyzed on 08/02/2010.

Several analytes were detected in method blank MB 280-25120/1 at levels exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

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

All other quality control parameters were within the acceptance limits.

ALKALINITY

Sample KING WATER WELL (280-5486-1) was analyzed for Alkalinity in accordance with SM20 2320B. The samples were analyzed on 07/22/2010.

No difficulties were encountered during the alkalinity analysis.

All quality control parameters were within the acceptance limits.

SPECIFIC CONDUCTIVITY

Sample KING WATER WELL (280-5486-1) was analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 07/22/2010.

No difficulties were encountered during the specific conductivity analysis.

All quality control parameters were within the acceptance limits.

TOTAL DISSOLVED SOLIDS

Sample KING WATER WELL (280-5486-1) was analyzed for total dissolved solids in accordance with SM20 2540C. The samples were analyzed on 07/27/2010.

No difficulties were encountered during the TDS analysis.

All quality control parameters were within the acceptance limits.

CORROSIVITY (PH)

Sample KING WATER WELL (280-5486-1) was analyzed for corrosivity (pH) in accordance with SM20 4500 H+ B. The samples were analyzed on 07/21/2010.

No other difficulties were encountered during the pH analysis.

All other quality control parameters were within the acceptance limits.

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-5486-1

SDG No.: _____

Instrument ID: GCV_P Analysis Batch Number: 12345Lab Sample ID: IC 280-12345/1 Client Sample ID: _____Date Analyzed: 04/22/10 15:05 Lab File ID: 110F0501.D GC Column: RTX 502.2 ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl tert-butyl ether	5.55	Analyte not Identified by the Data System	reamb	04/23/10 08:11

SAMPLE SUMMARY

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-5486-1	KING WATER WELL	Water	07/20/2010 0925	07/20/2010 1405

EXECUTIVE SUMMARY - Detections

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
280-5486-1 KING WATER WELL					
Sodium Adsorption Ratio		3.5	0.40	No Unit	20B
Barium		20	10	ug/L	6010B
Calcium		44000	200	ug/L	6010B
Magnesium		12000	200	ug/L	6010B
Manganese		42	10	ug/L	6010B
Potassium		9400	3000	ug/L	6010B
Sodium		110000	1000	ug/L	6010B
Bromide		0.29	0.20	mg/L	300.0
Chloride		23	3.0	mg/L	300.0
Sulfate		150	25	mg/L	300.0
Total Anions		7.6		meq/L	SM 1030F
Total Cations		8.2		meq/L	SM 1030F
Percent Difference		4.1		%	SM 1030F
Anion/Cation Balance		4.1		%	SM 1030F
Total Alkalinity		190	5.0	mg/L	SM 2320B
Bicarbonate Alkalinity as CaCO3		190	5.0	mg/L	SM 2320B
Specific Conductance		750	2.0	umhos/cm	SM 2510B
Total Dissolved Solids		460	10	mg/L	SM 2540C
pH		8.05 HF	0.100	SU	SM 4500 H+ B

METHOD SUMMARY

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Description		Lab Location	Method	Preparation Method
Matrix	Water			
Volatile Organic Compounds (GC)		TAL DEN	SW846 8021B	
Purge and Trap		TAL DEN		SW846 5030B
Dissolved Gases (GC)		TAL DEN	RSK RSK-175	
Sodium Adsorption Ratio		TAL DEN	USDA 20B	
Metals (ICP)		TAL DEN	SW846 6010B	
Preparation, Total Metals		TAL DEN		SW846 3010A
Mercury (CVAA)		TAL DEN	SW846 7470A	
Preparation, Mercury		TAL DEN		SW846 7470A
Anions, Ion Chromatography		TAL DEN	MCAWW 300.0	
Anions, Ion Chromatography		TAL DEN	MCAWW 300.0	
Cation Anion Balance		TAL DEN	SM SM 1030F	
Alkalinity		TAL DEN	SM SM 2320B	
Conductivity, Specific Conductance		TAL DEN	SM SM 2510B	
Solids, Total Dissolved (TDS)		TAL DEN	SM SM 2540C	
pH		TAL DEN	SM SM 4500 H+ B	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

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

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

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

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

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

METHOD / ANALYST SUMMARY

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Method	Analyst	Analyst ID
SW846 8021B	Ream, Brian E	BER
RSK RSK-175	Moore, Tegan E	TEM
USDA 20B	Wells, David	DW
SW846 6010B	Harre, John K	JKH
SW846 7470A	Stoltz, Katie	KS
MCAWW 300.0	Kudla, Ewa	EK
SM SM 1030F	Sullivan, Roxanne	RS
SM SM 2320B	Kudla, Ewa	EK
SM SM 2510B	Plumb, Paul M	PMP
SM SM 2540C	Domnick, Brandon J	BJD
SM SM 4500 H+ B	Kilker, Lorelei M	LMK

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Client Sample ID: KING WATER WELL

Lab Sample ID: 280-5486-1

Date Sampled: 07/20/2010 0925

Client Matrix: Water

Date Received: 07/20/2010 1405

8021B Volatile Organic Compounds (GC)

Method:	8021B	Analysis Batch: 280-24296	Instrument ID:	GCV_P
Preparation:	5030B		Initial Weight/Volume:	5 mL
Dilution:	1.0		Final Weight/Volume:	5 mL
Date Analyzed:	07/26/2010 1301		Injection Volume:	5 mL
Date Prepared:	07/26/2010 1301		Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
Toluene	ND		0.50
m-Xylene & p-Xylene	ND		0.50
o-Xylene	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	100		85 - 115

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Client Sample ID: KING WATER WELL

Lab Sample ID: 280-5486-1

Date Sampled: 07/20/2010 0925

Client Matrix: Water

Date Received: 07/20/2010 1405

8021B Volatile Organic Compounds (GC)

Method: 8021B

Analysis Batch: 280-24296

Instrument ID: GCV_P

Preparation: 5030B

Initial Weight/Volume: 5 mL

Dilution: 1.0

Final Weight/Volume: 5 mL

Date Analyzed: 07/26/2010 1301

Injection Volume: 5 mL

Date Prepared: 07/26/2010 1301

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	97		85 - 115

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Client Sample ID: KING WATER WELL

Lab Sample ID: 280-5486-1

Date Sampled: 07/20/2010 0925

Client Matrix: Water

Date Received: 07/20/2010 1405

RSK-175 Dissolved Gases (GC)

Method: RSK-175

Analysis Batch: 280-23858

Instrument ID: GCV_J

Preparation: N/A

Initial Weight/Volume: 18 mL

Dilution: 1.0

Final Weight/Volume: 18 mL

Date Analyzed: 07/21/2010 1554

Injection Volume:

Date Prepared:

Result Type: PRIMARY

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

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Client Sample ID: KING WATER WELL

Lab Sample ID: 280-5486-1

Date Sampled: 07/20/2010 0925

Client Matrix: Water

Date Received: 07/20/2010 1405

RSK-175 Dissolved Gases (GC)

Method: RSK-175

Analysis Batch: 280-23858

Instrument ID: GCV_J

Preparation: N/A

Initial Weight/Volume: 18 mL

Dilution: 1.0

Final Weight/Volume: 18 mL

Date Analyzed: 07/21/2010 1554

Injection Volume:

Date Prepared:

Result Type: SECONDARY

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

Analytical Data

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-5486-1

Client Sample ID: KING WATER WELL

Lab Sample ID: 280-5486-1

Date Sampled: 07/20/2010 0925

Client Matrix: Water

Date Received: 07/20/2010 1405

20B Sodium Adsorption Ratio

Method:	20B	Analysis Batch: 280-25253	Instrument ID:	NOEQUIP
Preparation:	N/A		Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	
Date Analyzed:	08/03/2010 1039		Final Weight/Volume:	1.0 mL
Date Prepared:				

Analyte	Result (No Unit)	Qualifier	RL
Sodium Adsorption Ratio	3.5		0.40

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 280-24293	Instrument ID:	MT_025
Preparation:	3010A	Prep Batch: 280-23631	Lab File ID:	25A8072610.txt
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	07/27/2010 0431		Final Weight/Volume:	50 mL
Date Prepared:	07/24/2010 1030			

Analyte	Result (ug/L)	Qualifier	RL
Arsenic	ND		15
Barium	20		10
Calcium	44000		200
Chromium	ND		10
Lead	ND		9.0
Magnesium	12000		200
Manganese	42		10
Potassium	9400		3000
Selenium	ND		15
Sodium	110000		1000

Method:	6010B	Analysis Batch: 280-24875	Instrument ID:	MT_025
Preparation:	3010A	Prep Batch: 280-23631	Lab File ID:	25A4072910.txt
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	07/29/2010 1856		Final Weight/Volume:	50 mL
Date Prepared:	07/24/2010 1030			

Analyte	Result (ug/L)	Qualifier	RL
Iron	ND		100

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 280-24567	Instrument ID:	MT_033
Preparation:	7470A	Prep Batch: 280-23663	Lab File ID:	100727AA2.txt
Dilution:	1.0		Initial Weight/Volume:	10 mL
Date Analyzed:	07/27/2010 1505		Final Weight/Volume:	10 mL
Date Prepared:	07/21/2010 1555			

Analyte	Result (ug/L)	Qualifier	RL
Mercury	ND		0.20

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

General Chemistry

Client Sample ID: KING WATER WELL

Lab Sample ID: 280-5486-1

Date Sampled: 07/20/2010 0925

Client Matrix: Water

Date Received: 07/20/2010 1405

Analyte	Result	Qual	Units	RL	Dil	Method
Bromide	0.29		mg/L	0.20	1.0	300.0
	Analysis Batch: 280-24803	Date Analyzed: 07/20/2010 1737				
Nitrate as N	ND		mg/L	0.50	1.0	300.0
	Analysis Batch: 280-24802	Date Analyzed: 07/20/2010 1737				
Chloride	23		mg/L	3.0	1.0	300.0
	Analysis Batch: 280-24803	Date Analyzed: 07/20/2010 1737				
Nitrite as N	ND		mg/L	0.50	1.0	300.0
	Analysis Batch: 280-24802	Date Analyzed: 07/20/2010 1737				
Fluoride	ND		mg/L	0.50	1.0	300.0
	Analysis Batch: 280-24803	Date Analyzed: 07/20/2010 1737				
Nitrate Nitrite as N	ND		mg/L	0.50	1.0	300.0
	Analysis Batch: 280-24802	Date Analyzed: 07/20/2010 1737				
Sulfate	150		mg/L	25	5.0	300.0
	Analysis Batch: 280-24803	Date Analyzed: 07/20/2010 1901				
Total Alkalinity	190		mg/L	5.0	1.0	SM 2320B
	Analysis Batch: 280-24018	Date Analyzed: 07/22/2010 2101				
Bicarbonate Alkalinity as CaCO3	190		mg/L	5.0	1.0	SM 2320B
	Analysis Batch: 280-24018	Date Analyzed: 07/22/2010 2101				
Carbonate Alkalinity as CaCO3	ND		mg/L	5.0	1.0	SM 2320B
	Analysis Batch: 280-24018	Date Analyzed: 07/22/2010 2101				
Hydroxide Alkalinity	ND		mg/L	5.0	1.0	SM 2320B
	Analysis Batch: 280-24018	Date Analyzed: 07/22/2010 2101				
Total Dissolved Solids	460		mg/L	10	1.0	SM 2540C
	Analysis Batch: 280-24407	Date Analyzed: 07/27/2010 1450				
Analyte	Result	Qual	Units		Dil	Method
Total Anions	7.6		meq/L		1.0	SM 1030F
	Analysis Batch: 280-25120	Date Analyzed: 08/02/2010 0932				
Total Cations	8.2		meq/L		1.0	SM 1030F
	Analysis Batch: 280-25120	Date Analyzed: 08/02/2010 0932				
Percent Difference	4.1		%		1.0	SM 1030F
	Analysis Batch: 280-25120	Date Analyzed: 08/02/2010 0932				
Anion/Cation Balance	4.1		%		1.0	SM 1030F
	Analysis Batch: 280-25120	Date Analyzed: 08/02/2010 0932				
Analyte	Result	Qual	Units	RL	Dil	Method
Specific Conductance	750		umhos/cm	2.0	1.0	SM 2510B
	Analysis Batch: 280-23905	Date Analyzed: 07/22/2010 1519				
pH	8.05	HF	SU	0.100	1.0	SM 4500 H+ B
	Analysis Batch: 280-23757	Date Analyzed: 07/21/2010 0923				

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Surrogate Recovery Report**8021B Volatile Organic Compounds (GC)****Client Matrix: Water**

Lab Sample ID	Client Sample ID	TFT1 %Rec	TFT2 %Rec
280-5486-1	KING WATER WELL	100	97
MB 280-24296/4		93	91
LCS 280-24296/2		97	94
LCSD 280-24296/3		100	98
280-5486-1 MS	KING WATER WELL MS	98	95
280-5486-1 MSD	KING WATER WELL MSD	97	96

Surrogate

Acceptance Limits

TFT = a,a,a-Trifluorotoluene

85-115

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Method Blank - Batch: 280-24296

Lab Sample ID: MB 280-24296/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/26/2010 1200
Date Prepared: 07/26/2010 1200

Analysis Batch: 280-24296
Prep Batch: N/A
Units: ug/L

Method: 8021B Preparation: 5030B

Instrument ID: GCV_P
Lab File ID: 114F0501.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume: 5 mL
Column ID: PRIMARY

Analyte	Result	Qual	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
Toluene	ND		0.50
m-Xylene & p-Xylene	ND		0.50
o-Xylene	ND		0.50
Surrogate	% Rec	Acceptance Limits	
a,a,a-Trifluorotoluene	93	85 - 115	
Surrogate	% Rec	Acceptance Limits	
a,a,a-Trifluorotoluene	91	85 - 115	

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-24296**

**Method: 8021B
Preparation: 5030B**

LCS Lab Sample ID: LCS 280-24296/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/26/2010 1048
Date Prepared: 07/26/2010 1048

Analysis Batch: 280-24296
Prep Batch: N/A
Units: ug/L

Instrument ID: GCV_P
Lab File ID: 112F0301.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume: 5 mL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 280-24296/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/26/2010 1124
Date Prepared: 07/26/2010 1124

Analysis Batch: 280-24296
Prep Batch: N/A
Units: ug/L

Instrument ID: GCV_P
Lab File ID: 113F0401.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume: 5 mL
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	78	76	75 - 117	2	45		
Ethylbenzene	87	85	79 - 115	2	46		
Toluene	83	81	77 - 115	3	45		
m-Xylene & p-Xylene	87	85	79 - 116	2	46		
o-Xylene	90	87	79 - 116	3	46		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
a,a,a-Trifluorotoluene	97		100		85 - 115		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
a,a,a-Trifluorotoluene	94		98		85 - 115		

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-24296**

**Method: 8021B
Preparation: 5030B**

LCS Lab Sample ID: LCS 280-24296/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/26/2010 1048
Date Prepared: 07/26/2010 1048

Units: ug/L

LCSD Lab Sample ID: LCSD 280-24296/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/26/2010 1124
Date Prepared: 07/26/2010 1124

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Benzene	20.0	20.0	15.6	15.3
Ethylbenzene	20.0	20.0	17.3	17.1
Toluene	20.0	20.0	16.6	16.1
m-Xylene & p-Xylene	40.0	40.0	34.7	34.0
o-Xylene	20.0	20.0	17.9	17.4

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-24296**

**Method: 8021B
Preparation: 5030B**

MS Lab Sample ID: 280-5486-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/26/2010 1337
Date Prepared: 07/26/2010 1337

Analysis Batch: 280-24296
Prep Batch: N/A

Instrument ID: GCV_P
Lab File ID: 116F0701.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume: 5 mL
Column ID: PRIMARY

MSD Lab Sample ID: 280-5486-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/26/2010 1413
Date Prepared: 07/26/2010 1413

Analysis Batch: 280-24296
Prep Batch: N/A

Instrument ID: GCV_P
Lab File ID: 201F0801.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume: 5 mL
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	80	81	75 - 117	2	45		
Ethylbenzene	89	90	79 - 115	1	46		
Toluene	85	86	77 - 115	1	45		
m-Xylene & p-Xylene	90	90	79 - 116	0	46		
o-Xylene	92	94	79 - 116	2	46		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
a,a,a-Trifluorotoluene	98		97	85 - 115			
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
a,a,a-Trifluorotoluene	95		96	85 - 115			

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-24296

Method: 8021B

Preparation: 5030B

MS Lab Sample ID: 280-5486-1 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/26/2010 1337
Date Prepared: 07/26/2010 1337

MSD Lab Sample ID: 280-5486-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/26/2010 1413
Date Prepared: 07/26/2010 1413

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Benzene	ND	20.0	20.0	15.9	16.2
Ethylbenzene	ND	20.0	20.0	17.9	18.0
Toluene	ND	20.0	20.0	17.0	17.1
m-Xylene & p-Xylene	ND	40.0	40.0	35.9	36.0
o-Xylene	ND	20.0	20.0	18.5	18.8

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Method Blank - Batch: 280-23858

Lab Sample ID: MB 280-23858/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/21/2010 1336
Date Prepared: N/A

Analysis Batch: 280-23858
Prep Batch: N/A
Units: ug/L

Method: RSK-175 Preparation: N/A

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

Analyte	Result	Qual	RL
Methane	ND		5.0

Method Blank - Batch: 280-23858

Lab Sample ID: MB 280-23858/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/21/2010 1336
Date Prepared: N/A

Analysis Batch: 280-23858
Prep Batch: N/A
Units: ug/L

Method: RSK-175 Preparation: N/A

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

Analyte	Result	Qual	RL
Methane	ND		5.0

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-5486-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-23858**

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

LCS Lab Sample ID: LCS 280-23858/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/21/2010 1328
Date Prepared: N/A

Analysis Batch: 280-23858
Prep Batch: N/A
Units: ug/L

Instrument ID: GCV_J
Lab File ID: 003F0301.D
Initial Weight/Volume: 18 mL
Final Weight/Volume: 18 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 280-23858/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/21/2010 1332
Date Prepared: N/A

Analysis Batch: 280-23858
Prep Batch: N/A
Units: ug/L

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

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methane	109	105	75 - 125	3	20		

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-23858**

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

LCS Lab Sample ID: LCS 280-23858/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/21/2010 1328
Date Prepared: N/A

Analysis Batch: 280-23858
Prep Batch: N/A
Units: ug/L

Instrument ID: GCV_J
Lab File ID: 003F0301.D
Initial Weight/Volume: 18 mL
Final Weight/Volume: 18 mL
Injection Volume:
Column ID: SECONDARY

LCSD Lab Sample ID: LCSD 280-23858/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/21/2010 1332
Date Prepared: N/A

Analysis Batch: 280-23858
Prep Batch: N/A
Units: ug/L

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

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methane	109	105	75 - 125	3	20		

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-23858**

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

LCS Lab Sample ID: LCS 280-23858/2 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/21/2010 1328
Date Prepared: N/A

LCSD Lab Sample ID: LCSD 280-23858/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/21/2010 1332
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Methane	73.0	73.0	79.2	76.9

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-23858**

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

LCS Lab Sample ID: LCS 280-23858/2 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/21/2010 1328
Date Prepared: N/A

LCSD Lab Sample ID: LCSD 280-23858/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/21/2010 1332
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Methane	73.0	73.0	79.3	76.7

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Method Blank - Batch: 280-25253

Lab Sample ID: MB 280-25253/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/03/2010 1039
Date Prepared: N/A

Analysis Batch: 280-25253
Prep Batch: N/A
Units: No Unit

Method: 20B

Preparation: N/A

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

Analyte	Result	Qual	RL
Sodium Adsorption Ratio	ND		0.40

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Method Blank - Batch: 280-23631

Method: 6010B

Preparation: 3010A

Lab Sample ID: MB 280-23631/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/27/2010 0333
Date Prepared: 07/24/2010 1030

Analysis Batch: 280-24293
Prep Batch: 280-23631
Units: ug/L

Instrument ID: MT_025
Lab File ID: 25A8072610.txt
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Arsenic	ND		15
Barium	ND		10
Calcium	ND		200
Chromium	ND		10
Lead	ND		9.0
Magnesium	ND		200
Manganese	ND		10
Potassium	ND		3000
Selenium	ND		15
Sodium	ND		1000

Method Blank - Batch: 280-23631

Method: 6010B

Preparation: 3010A

Lab Sample ID: MB 280-23631/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/29/2010 1833
Date Prepared: 07/24/2010 1030

Analysis Batch: 280-24875
Prep Batch: 280-23631
Units: ug/L

Instrument ID: MT_025
Lab File ID: 25A4072910.txt
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Iron	ND		100

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Lab Control Sample - Batch: 280-23631

Method: 6010B
Preparation: 3010A

Lab Sample ID: LCS 280-23631/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/27/2010 0335
Date Prepared: 07/24/2010 1030

Analysis Batch: 280-24293
Prep Batch: 280-23631
Units: ug/L

Instrument ID: MT_025
Lab File ID: 25A8072610.txt
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	1000	958	96	88 - 110	
Barium	2000	2100	105	90 - 112	
Calcium	50000	46400	93	90 - 111	
Chromium	200	203	101	90 - 113	
Lead	500	497	99	89 - 110	
Magnesium	50000	48100	96	90 - 113	
Manganese	500	499	100	90 - 110	
Potassium	50000	53500	107	89 - 114	
Selenium	2000	1980	99	85 - 112	
Sodium	50000	54800	110	90 - 115	

Lab Control Sample - Batch: 280-23631

Method: 6010B
Preparation: 3010A

Lab Sample ID: LCS 280-23631/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/29/2010 1836
Date Prepared: 07/24/2010 1030

Analysis Batch: 280-24875
Prep Batch: 280-23631
Units: ug/L

Instrument ID: MT_025
Lab File ID: 25A4072910.txt
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	1000	1070	107	89 - 115	

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-5486-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-23631

Method: 6010B

Preparation: 3010A

MS Lab Sample ID: 280-5459-A-1-B MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/27/2010 0401
Date Prepared: 07/24/2010 1030

Analysis Batch: 280-24293
Prep Batch: 280-23631

Instrument ID: MT_025
Lab File ID: 25A8072610.txt
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 280-5459-A-1-C MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/27/2010 0404
Date Prepared: 07/24/2010 1030

Analysis Batch: 280-24293
Prep Batch: 280-23631

Instrument ID: MT_025
Lab File ID: 25A8072610.txt
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Arsenic	100	101	84 - 124	1	25		
Barium	106	105	85 - 120	1	25		
Calcium	71	88	48 - 153	2	25	4	4
Chromium	101	100	73 - 135	1	25		
Lead	94	93	89 - 121	1	25		
Magnesium	93	95	62 - 146	0	25	4	4
Manganese	98	97	79 - 121	1	25		
Potassium	112	111	76 - 132	1	25		
Selenium	105	104	71 - 140	0	25		
Sodium	113	113	70 - 203	0	40		

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-23631

Method: 6010B

Preparation: 3010A

MS Lab Sample ID: 280-5459-A-1-B MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/29/2010 1843
Date Prepared: 07/24/2010 1030

Analysis Batch: 280-24875
Prep Batch: 280-23631

Instrument ID: MT_025
Lab File ID: 25A4072910.txt
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 280-5459-A-1-C MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/29/2010 1845
Date Prepared: 07/24/2010 1030

Analysis Batch: 280-24875
Prep Batch: 280-23631

Instrument ID: MT_025
Lab File ID: 25A4072910.txt
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Iron	107	104	52 - 155	1	25		

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-23631

Method: 6010B

Preparation: 3010A

MS Lab Sample ID: 280-5459-A-1-B MS
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 07/27/2010 0401
 Date Prepared: 07/24/2010 1030

Units: ug/L

MSD Lab Sample ID: 280-5459-A-1-C MSD
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 07/27/2010 0404
 Date Prepared: 07/24/2010 1030

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Arsenic	ND	1000	1000	1000	1010
Barium	54	2000	2000	2180	2150
Calcium	350000	50000	50000	389000 4	397000 4
Chromium	ND	200	200	204	202
Lead	ND	500	500	472	466
Magnesium	320000	50000	50000	369000 4	370000 4
Manganese	130	500	500	616	613
Potassium	19000	50000	50000	75100	74600
Selenium	ND	2000	2000	2110	2100
Sodium	130000	50000	50000	189000	189000

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-23631

Method: 6010B

Preparation: 3010A

MS Lab Sample ID: 280-5459-A-1-B MS
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 07/29/2010 1843
 Date Prepared: 07/24/2010 1030

Units: ug/L

MSD Lab Sample ID: 280-5459-A-1-C MSD
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 07/29/2010 1845
 Date Prepared: 07/24/2010 1030

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Iron	1400	1000	1000	2450	2420

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Serial Dilution - Batch: 280-23631

Method: 6010B

Preparation: 3010A

Lab Sample ID: 280-5459-A-1-A SD ^5
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 07/27/2010 0359
Date Prepared: 07/24/2010 1030

Analysis Batch: 280-24293
Prep Batch: 280-23631
Units: ug/L

Instrument ID: MT_025
Lab File ID: 25A8072610.txt
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Arsenic	ND	ND	NC		
Barium	54	54.8	0.46	10	
Calcium	350000	371000	4.9	10	
Chromium	ND	ND	NC		
Lead	ND	ND	NC		
Magnesium	320000	330000	2.3	10	
Manganese	130	130	3.8	10	
Potassium	19000	19700	2.5	10	
Selenium	ND	ND	NC		
Sodium	130000	131000	0.74	10	

Serial Dilution - Batch: 280-23631

Method: 6010B

Preparation: 3010A

Lab Sample ID: 280-5459-A-1-A SD ^5
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 07/29/2010 1841
Date Prepared: 07/24/2010 1030

Analysis Batch: 280-24875
Prep Batch: 280-23631
Units: ug/L

Instrument ID: MT_025
Lab File ID: 25A4072910.txt
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Iron	1400	1450	5.0	10	

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-5486-1

Method Blank - Batch: 280-23663

Lab Sample ID: MB 280-23663/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/27/2010 1302
Date Prepared: 07/21/2010 1555

Analysis Batch: 280-24567
Prep Batch: 280-23663
Units: ug/L

Method: 7470A Preparation: 7470A

Instrument ID: MT_033
Lab File ID: 100727AA2.txt
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Mercury	ND		0.20

Lab Control Sample - Batch: 280-23663

Lab Sample ID: LCS 280-23663/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/27/2010 1309
Date Prepared: 07/21/2010 1555

Analysis Batch: 280-24567
Prep Batch: 280-23663
Units: ug/L

Method: 7470A Preparation: 7470A

Instrument ID: MT_033
Lab File ID: 100727AA2.txt
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	5.00	5.38	108	88 - 111	

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-23663

Method: 7470A Preparation: 7470A

MS Lab Sample ID: 280-5400-A-3-E MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/27/2010 1321
Date Prepared: 07/21/2010 1555

Analysis Batch: 280-24567
Prep Batch: 280-23663

Instrument ID: MT_033
Lab File ID: 100727AA2.txt
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 280-5400-A-3-F MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/27/2010 1323
Date Prepared: 07/21/2010 1555

Analysis Batch: 280-24567
Prep Batch: 280-23663

Instrument ID: MT_033
Lab File ID: 100727AA2.txt
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Mercury	96	103	88 - 111	7	10		

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-23663

Method: 7470A

Preparation: 7470A

MS Lab Sample ID: 280-5400-A-3-E MS Units: ug/L
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/27/2010 1321
Date Prepared: 07/21/2010 1555

MSD Lab Sample ID: 280-5400-A-3-F MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/27/2010 1323
Date Prepared: 07/21/2010 1555

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	ND	5.00	5.00	4.78	5.13

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Method Blank - Batch: 280-24802

Method: 300.0

Preparation: N/A

Lab Sample ID: MB 280-24802/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/20/2010 1535
Date Prepared: N/A

Analysis Batch: 280-24802
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_IC8
Lab File ID: 115.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL
Nitrate as N	ND		0.50
Nitrite as N	ND		0.50
Nitrate Nitrite as N	ND		0.50

Method Reporting Limit Check - Batch: 280-24802

Method: 300.0

Preparation: N/A

Lab Sample ID: MRL 280-24802/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/20/2010 1445
Date Prepared: N/A

Analysis Batch: 280-24802
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_IC8
Lab File ID: 112.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N	0.200	ND	95	50 - 150	
Nitrite as N	0.200	ND	100	50 - 150	

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-24802**

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

LCS Lab Sample ID: LCS 280-24802/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/20/2010 1502
Date Prepared: N/A

Analysis Batch: 280-24802
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_IC8
Lab File ID: 113.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

LCSD Lab Sample ID: LCSD 280-24802/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/20/2010 1518
Date Prepared: N/A

Analysis Batch: 280-24802
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_IC8
Lab File ID: 114.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Nitrate as N	91	91	90 - 110	1	10		
Nitrite as N	96	95	90 - 110	1	10		

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-24802**

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

LCS Lab Sample ID: LCS 280-24802/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/20/2010 1502
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 280-24802/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/20/2010 1518
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Nitrate as N	5.00	5.00	4.56	4.53
Nitrite as N	5.00	5.00	4.82	4.77

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-24802**

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

MS Lab Sample ID: 280-5469-A-13 MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/20/2010 1626
Date Prepared: N/A

Analysis Batch: 280-24802
Prep Batch: N/A

Instrument ID: WC_IC8
Lab File ID: 118.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 5 mL

MSD Lab Sample ID: 280-5469-A-13 MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/20/2010 1720
Date Prepared: N/A

Analysis Batch: 280-24802
Prep Batch: N/A

Instrument ID: WC_IC8
Lab File ID: 119.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Nitrate as N	101	101	80 - 120	0	20		
Nitrite as N	99	100	80 - 120	1	20		

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-24802**

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

MS Lab Sample ID: 280-5469-A-13 MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/20/2010 1626
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 280-5469-A-13 MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/20/2010 1720
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Nitrate as N	ND	5.00	5.00	5.06	5.04
Nitrite as N	ND	5.00	5.00	4.96	4.99

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Duplicate - Batch: 280-24802

Lab Sample ID: 280-5469-A-13 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/20/2010 1609
Date Prepared: N/A

Analysis Batch: 280-24802
Prep Batch: N/A
Units: mg/L

Method: 300.0 Preparation: N/A

Instrument ID: WC_IC8
Lab File ID: 117.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Nitrate as N	ND	ND	NC	15	
Nitrite as N	ND	ND	NC	15	

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Method Blank - Batch: 280-24803

Method: 300.0

Preparation: N/A

Lab Sample ID: MB 280-24803/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/20/2010 1535
Date Prepared: N/A

Analysis Batch: 280-24803
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_IC8
Lab File ID: 115.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

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

Method Reporting Limit Check - Batch: 280-24803

Method: 300.0

Preparation: N/A

Lab Sample ID: MRL 280-24803/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/20/2010 1445
Date Prepared: N/A

Analysis Batch: 280-24803
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_IC8
Lab File ID: 112.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Bromide	0.200	ND	90	50 - 150	
Chloride	1.00	ND	98	50 - 150	
Fluoride	0.200	ND	95	50 - 150	
Sulfate	1.00	ND	96	50 - 150	

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-24803**

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

LCS Lab Sample ID: LCS 280-24803/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/20/2010 1502
Date Prepared: N/A

Analysis Batch: 280-24803
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_IC8
Lab File ID: 113.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

LCSD Lab Sample ID: LCSD 280-24803/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/20/2010 1518
Date Prepared: N/A

Analysis Batch: 280-24803
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_IC8
Lab File ID: 114.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Bromide	97	95	90 - 110	2	10		
Chloride	99	97	90 - 110	2	10		
Fluoride	99	98	90 - 110	1	10		
Sulfate	95	94	90 - 110	1	10		

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-24803**

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

LCS Lab Sample ID: LCS 280-24803/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/20/2010 1502
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 280-24803/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/20/2010 1518
Date Prepared: N/A

Analyte	Spike Amount		LCS Result/Qual	LCSD Result/Qual
	LCS	LCSD		
Bromide	5.00	5.00	4.87	4.75
Chloride	25.0	25.0	24.6	24.2
Fluoride	5.00	5.00	4.97	4.90
Sulfate	25.0	25.0	23.7	23.5

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-5486-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-24803

Method: 300.0

Preparation: N/A

MS Lab Sample ID: 280-5469-A-13 MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/20/2010 1626
Date Prepared: N/A

Analysis Batch: 280-24803
Prep Batch: N/A

Instrument ID: WC_IC8
Lab File ID: 118.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 5 mL

MSD Lab Sample ID: 280-5469-A-13 MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/20/2010 1720
Date Prepared: N/A

Analysis Batch: 280-24803
Prep Batch: N/A

Instrument ID: WC_IC8
Lab File ID: 119.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Bromide	101	101	80 - 120	0	20		
Chloride	101	102	80 - 120	1	20		
Fluoride	99	99	80 - 120	1	20		
Sulfate	99	99	80 - 120	0	20		

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-24803

Method: 300.0

Preparation: N/A

MS Lab Sample ID: 280-5469-A-13 MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/20/2010 1626
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 280-5469-A-13 MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/20/2010 1720
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Bromide	ND	5.00	5.00	5.05	5.03
Chloride	3.8	25.0	25.0	29.2	29.3
Fluoride	ND	5.00	5.00	4.93	4.96
Sulfate	ND	25.0	25.0	27.3	27.3

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Duplicate - Batch: 280-24803

Method: 300.0

Preparation: N/A

Lab Sample ID: 280-5469-A-13 DU

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 07/20/2010 1609

Date Prepared: N/A

Analysis Batch: 280-24803

Prep Batch: N/A

Units: mg/L

Instrument ID: WC_IC8

Lab File ID: 117.TXT

Initial Weight/Volume: 1.0 mL

Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Bromide	ND	ND	NC	15	
Chloride	3.8	3.79	0	15	
Fluoride	ND	ND	NC	15	
Sulfate	ND	ND	0	15	

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Method Blank - Batch: 280-25120

Method: SM 1030F
Preparation: N/A

Lab Sample ID: MB 280-25120/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/02/2010 0932
Date Prepared: N/A

Analysis Batch: 280-25120
Prep Batch: N/A
Units: %

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

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

Method Blank - Batch: 280-25120

Method: SM 1030F
Preparation: N/A

Lab Sample ID: MB 280-25120/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/02/2010 0932
Date Prepared: N/A

Analysis Batch: 280-25120
Prep Batch: N/A
Units: meq/L

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

Analyte	Result	Qual	NONE
Total Anions	0.000		
Total Cations	0.000		

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Method Blank - Batch: 280-24018

Lab Sample ID: MB 280-24018/35
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/22/2010 1918
Date Prepared: N/A

Analysis Batch: 280-24018
Prep Batch: N/A
Units: mg/L

Method: SM 2320B
Preparation: N/A

Instrument ID: WC_AT2
Lab File ID: 072210a.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

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

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-24018

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID: LCS 280-24018/33
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/22/2010 1901
Date Prepared: N/A

Analysis Batch: 280-24018
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_AT2
Lab File ID: 072210a.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

LCSD Lab Sample ID: LCSD 280-24018/34
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/22/2010 1911
Date Prepared: N/A

Analysis Batch: 280-24018
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_AT2
Lab File ID: 072210a.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Total Alkalinity	101	101	90 - 110	0	10		

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-24018

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID: LCS 280-24018/33 Units: mg/L
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/22/2010 1901
Date Prepared: N/A

LCSD Lab Sample ID: LCSD 280-24018/34
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/22/2010 1911
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Alkalinity	200	200	202	201

Duplicate - Batch: 280-24018

Method: SM 2320B
Preparation: N/A

Lab Sample ID: 280-5399-A-1 DU Analysis Batch: 280-24018
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: mg/L
Date Analyzed: 07/22/2010 1935
Date Prepared: N/A

Instrument ID: WC_AT2
Lab File ID: 072210a.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Alkalinity	270	275	4	10	

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-5486-1

Method Blank - Batch: 280-23905

Lab Sample ID: MB 280-23905/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/22/2010 1519
Date Prepared: N/A

Analysis Batch: 280-23905
Prep Batch: N/A
Units: umhos/cm

Method: SM 2510B
Preparation: N/A

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

Analyte	Result	Qual	RL
Specific Conductance	ND		2.0

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 280-23905

LCS Lab Sample ID: LCS 280-23905/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/22/2010 1519
Date Prepared: N/A

Analysis Batch: 280-23905
Prep Batch: N/A
Units: umhos/cm

Method: SM 2510B
Preparation: N/A

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

LCSD Lab Sample ID: LCSD 280-23905/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/22/2010 1519
Date Prepared: N/A

Analysis Batch: 280-23905
Prep Batch: N/A
Units: umhos/cm

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

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Specific Conductance	101	102	90 - 110	1	10		

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-23905

Method: SM 2510B
Preparation: N/A

LCS Lab Sample ID: LCS 280-23905/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/22/2010 1519
Date Prepared: N/A

Units: umhos/cm

LCSD Lab Sample ID: LCSD 280-23905/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/22/2010 1519
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Specific Conductance	1410	1410	1420	1430

Duplicate - Batch: 280-23905

Method: SM 2510B
Preparation: N/A

Lab Sample ID: 280-5344-C-1 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/22/2010 1519
Date Prepared: N/A

Analysis Batch: 280-23905
Prep Batch: N/A
Units: umhos/cm

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

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Specific Conductance	1400	1380	2	10	

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-5486-1

Method Blank - Batch: 280-24407

Lab Sample ID: MB 280-24407/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/27/2010 1450
Date Prepared: N/A

Analysis Batch: 280-24407
Prep Batch: N/A
Units: mg/L

Method: SM 2540C
Preparation: N/A

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

Analyte	Result	Qual	RL
Total Dissolved Solids	ND		10

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 280-24407

LCS Lab Sample ID: LCS 280-24407/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/27/2010 1450
Date Prepared: N/A

Analysis Batch: 280-24407
Prep Batch: N/A
Units: mg/L

Method: SM 2540C
Preparation: N/A

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

LCSD Lab Sample ID: LCSD 280-24407/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/27/2010 1450
Date Prepared: N/A

Analysis Batch: 280-24407
Prep Batch: N/A
Units: mg/L

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

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Total Dissolved Solids	98	97	86 - 110	1	20		

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-24407

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID: LCS 280-24407/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/27/2010 1450
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 280-24407/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/27/2010 1450
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids	500	500	491	486

Duplicate - Batch: 280-24407

Method: SM 2540C
Preparation: N/A

Lab Sample ID: 280-5469-A-13 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/27/2010 1450
Date Prepared: N/A

Analysis Batch: 280-24407
Prep Batch: N/A
Units: mg/L

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

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids	150	152	2	20	

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-23757

Method: SM 4500 H+ B

Preparation: N/A

LCS Lab Sample ID: LCS 280-23757/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/21/2010 0918
Date Prepared: N/A

Analysis Batch: 280-23757
Prep Batch: N/A
Units: SU

Instrument ID: WC_pH Probe
Lab File ID: 072110.txt
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

LCSD Lab Sample ID: LCSD 280-23757/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/21/2010 0921
Date Prepared: N/A

Analysis Batch: 280-23757
Prep Batch: N/A
Units: SU

Instrument ID: WC_pH Probe
Lab File ID: 072110.txt
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
pH	100	100	99 - 101	0	5		

Laboratory Control/

Laboratory Duplicate Data Report - Batch: 280-23757

Method: SM 4500 H+ B

Preparation: N/A

LCS Lab Sample ID: LCS 280-23757/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/21/2010 0918
Date Prepared: N/A

Units: SU

LCSD Lab Sample ID: LCSD 280-23757/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/21/2010 0921
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
pH	7.00	7.00	7.030	7.030

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Duplicate - Batch: 280-23757

Lab Sample ID: 280-5486-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/21/2010 0926
Date Prepared: N/A

Analysis Batch: 280-23757
Prep Batch: N/A
Units: SU

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

Instrument ID: WC_pH Probe
Lab File ID: 072110.txt
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	8.05	8.070	0	5	HF

DATA REPORTING QUALIFIERS

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Lab Section	Qualifier	Description
Metals		
	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.
General Chemistry		
	HF	Field parameter with a holding time of 15 minutes

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
GC VOA					
Analysis Batch:280-23858					
LCS 280-23858/2	Lab Control Sample	T	Water	RSK-175	
LCSD 280-23858/3	Lab Control Sample Duplicate	T	Water	RSK-175	
MB 280-23858/4	Method Blank	T	Water	RSK-175	
280-5486-1	KING WATER WELL	T	Water	RSK-175	
Analysis Batch:280-24296					
LCS 280-24296/2	Lab Control Sample	T	Water	8021B	
LCSD 280-24296/3	Lab Control Sample Duplicate	T	Water	8021B	
MB 280-24296/4	Method Blank	T	Water	8021B	
280-5486-1	KING WATER WELL	T	Water	8021B	
280-5486-1MS	Matrix Spike	T	Water	8021B	
280-5486-1MSD	Matrix Spike Duplicate	T	Water	8021B	

Report Basis

T = Total

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-5486-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-23631					
LCS 280-23631/2-A	Lab Control Sample	T	Water	3010A	
MB 280-23631/1-A	Method Blank	T	Water	3010A	
280-5459-A-1-B MS	Matrix Spike	T	Water	3010A	
280-5459-A-1-C MSD	Matrix Spike Duplicate	T	Water	3010A	
280-5486-1	KING WATER WELL	T	Water	3010A	
Prep Batch: 280-23663					
LCS 280-23663/2-A	Lab Control Sample	T	Water	7470A	
MB 280-23663/1-A	Method Blank	T	Water	7470A	
280-5400-A-3-E MS	Matrix Spike	T	Water	7470A	
280-5400-A-3-F MSD	Matrix Spike Duplicate	T	Water	7470A	
280-5486-1	KING WATER WELL	T	Water	7470A	
Analysis Batch:280-24293					
LCS 280-23631/2-A	Lab Control Sample	T	Water	6010B	280-23631
MB 280-23631/1-A	Method Blank	T	Water	6010B	280-23631
280-5459-A-1-B MS	Matrix Spike	T	Water	6010B	280-23631
280-5459-A-1-C MSD	Matrix Spike Duplicate	T	Water	6010B	280-23631
280-5486-1	KING WATER WELL	T	Water	6010B	280-23631
Analysis Batch:280-24567					
LCS 280-23663/2-A	Lab Control Sample	T	Water	7470A	280-23663
MB 280-23663/1-A	Method Blank	T	Water	7470A	280-23663
280-5400-A-3-E MS	Matrix Spike	T	Water	7470A	280-23663
280-5400-A-3-F MSD	Matrix Spike Duplicate	T	Water	7470A	280-23663
280-5486-1	KING WATER WELL	T	Water	7470A	280-23663
Analysis Batch:280-24875					
LCS 280-23631/2-A	Lab Control Sample	T	Water	6010B	280-23631
MB 280-23631/1-A	Method Blank	T	Water	6010B	280-23631
280-5459-A-1-B MS	Matrix Spike	T	Water	6010B	280-23631
280-5459-A-1-C MSD	Matrix Spike Duplicate	T	Water	6010B	280-23631
280-5486-1	KING WATER WELL	T	Water	6010B	280-23631
Analysis Batch:280-25253					
MB 280-25253/1	Method Blank	T	Water	20B	
280-5486-1	KING WATER WELL	T	Water	20B	

Report Basis

T = Total

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
General Chemistry					
Analysis Batch:280-23757					
LCS 280-23757/5	Lab Control Sample	T	Water	SM 4500 H+ B	
LCSD 280-23757/6	Lab Control Sample Duplicate	T	Water	SM 4500 H+ B	
280-5486-1	KING WATER WELL	T	Water	SM 4500 H+ B	
280-5486-1DU	Duplicate	T	Water	SM 4500 H+ B	
Analysis Batch:280-23905					
LCS 280-23905/3	Lab Control Sample	T	Water	SM 2510B	
LCSD 280-23905/4	Lab Control Sample Duplicate	T	Water	SM 2510B	
MB 280-23905/5	Method Blank	T	Water	SM 2510B	
280-5344-C-1 DU	Duplicate	T	Water	SM 2510B	
280-5486-1	KING WATER WELL	T	Water	SM 2510B	
Analysis Batch:280-24018					
LCS 280-24018/33	Lab Control Sample	T	Water	SM 2320B	
LCSD 280-24018/34	Lab Control Sample Duplicate	T	Water	SM 2320B	
MB 280-24018/35	Method Blank	T	Water	SM 2320B	
280-5399-A-1 DU	Duplicate	T	Water	SM 2320B	
280-5486-1	KING WATER WELL	T	Water	SM 2320B	
Analysis Batch:280-24407					
LCS 280-24407/2	Lab Control Sample	T	Water	SM 2540C	
LCSD 280-24407/3	Lab Control Sample Duplicate	T	Water	SM 2540C	
MB 280-24407/1	Method Blank	T	Water	SM 2540C	
280-5469-A-13 DU	Duplicate	T	Water	SM 2540C	
280-5486-1	KING WATER WELL	T	Water	SM 2540C	
Analysis Batch:280-24802					
LCS 280-24802/4	Lab Control Sample	T	Water	300.0	
LCSD 280-24802/5	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-24802/6	Method Blank	T	Water	300.0	
280-5469-A-13 DU	Duplicate	T	Water	300.0	
280-5469-A-13 MS	Matrix Spike	T	Water	300.0	
280-5469-A-13 MSD	Matrix Spike Duplicate	T	Water	300.0	
280-5486-1	KING WATER WELL	T	Water	300.0	
Analysis Batch:280-24803					
LCS 280-24803/4	Lab Control Sample	T	Water	300.0	
LCSD 280-24803/5	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-24803/6	Method Blank	T	Water	300.0	
280-5469-A-13 DU	Duplicate	T	Water	300.0	
280-5469-A-13 MS	Matrix Spike	T	Water	300.0	
280-5469-A-13 MSD	Matrix Spike Duplicate	T	Water	300.0	
280-5486-1	KING WATER WELL	T	Water	300.0	

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Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-25120					
MB 280-25120/1	Method Blank	T	Water	SM 1030F	
280-5486-1	KING WATER WELL	T	Water	SM 1030F	

Report Basis

T = Total

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Laboratory Chronicle

Lab ID: 280-5486-1

Client ID: KING WATER WELL

Sample Date/Time: 07/20/2010 09:25

Received Date/Time: 07/20/2010 14:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-5486-F-1		280-24296		07/26/2010 13:01	1	TAL DEN	BER
A:8021B	280-5486-F-1		280-24296		07/26/2010 13:01	1	TAL DEN	BER
A:RSK-175	280-5486-H-1		280-23858		07/21/2010 15:54	1	TAL DEN	TEM
A:20B	280-5486-C-1		280-25253		08/03/2010 10:39	1	TAL DEN	DW
P:3010A	280-5486-A-1-A		280-24293	280-23631	07/24/2010 10:30	1	TAL DEN	JKH
A:6010B	280-5486-A-1-A		280-24293	280-23631	07/27/2010 04:31	1	TAL DEN	JKH
P:3010A	280-5486-A-1-A		280-24875	280-23631	07/24/2010 10:30	1	TAL DEN	JKH
A:6010B	280-5486-A-1-A		280-24875	280-23631	07/29/2010 18:56	1	TAL DEN	JKH
P:7470A	280-5486-A-1-B		280-24567	280-23663	07/21/2010 15:55	1	TAL DEN	KS
A:7470A	280-5486-A-1-B		280-24567	280-23663	07/27/2010 15:05	1	TAL DEN	KS
A:300.0	280-5486-A-1		280-24802		07/20/2010 17:37	1	TAL DEN	EK
A:300.0	280-5486-A-1		280-24803		07/20/2010 17:37	1	TAL DEN	EK
A:300.0	280-5486-A-1		280-24803		07/20/2010 19:01	5	TAL DEN	EK
A:SM 1030F	280-5486-A-1		280-25120		08/02/2010 09:32	1	TAL DEN	RS
A:SM 2320B	280-5486-A-1		280-24018		07/22/2010 21:01	1	TAL DEN	EK
A:SM 2510B	280-5486-A-1		280-23905		07/22/2010 15:19	1	TAL DEN	PMP
A:SM 2540C	280-5486-B-1		280-24407		07/27/2010 14:50	1	TAL DEN	BJD
A:SM 4500 H+ B	280-5486-A-1		280-23757		07/21/2010 09:23	1	TAL DEN	LMK

Lab ID: 280-5486-1 MS

Client ID: KING WATER WELL

Sample Date/Time: 07/20/2010 09:25

Received Date/Time: 07/20/2010 14:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-5486-F-1 MS		280-24296		07/26/2010 13:37	1	TAL DEN	BER
A:8021B	280-5486-F-1 MS		280-24296		07/26/2010 13:37	1	TAL DEN	BER

Lab ID: 280-5486-1 MSD

Client ID: KING WATER WELL

Sample Date/Time: 07/20/2010 09:25

Received Date/Time: 07/20/2010 14:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-5486-F-1 MSD		280-24296		07/26/2010 14:13	1	TAL DEN	BER
A:8021B	280-5486-F-1 MSD		280-24296		07/26/2010 14:13	1	TAL DEN	BER

Lab ID: 280-5486-1 DU

Client ID: KING WATER WELL

Sample Date/Time: 07/20/2010 09:25

Received Date/Time: 07/20/2010 14:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 4500 H+ B	280-5486-A-1 DU		280-23757		07/21/2010 09:26	1	TAL DEN	LMK

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Laboratory Chronicle

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 280-24296/4		280-24296		07/26/2010 12:00	1	TAL DEN	BER
A:8021B	MB 280-24296/4		280-24296		07/26/2010 12:00	1	TAL DEN	BER
A:RSK-175	MB 280-23858/4		280-23858		07/21/2010 13:36	1	TAL DEN	TEM
A:20B	MB 280-25253/1		280-25253		08/03/2010 10:39	1	TAL DEN	DW
P:3010A	MB 280-23631/1-A		280-24293	280-23631	07/24/2010 10:30	1	TAL DEN	JKH
A:6010B	MB 280-23631/1-A		280-24293	280-23631	07/27/2010 03:33	1	TAL DEN	JKH
P:3010A	MB 280-23631/1-A		280-24875	280-23631	07/24/2010 10:30	1	TAL DEN	JKH
A:6010B	MB 280-23631/1-A		280-24875	280-23631	07/29/2010 18:33	1	TAL DEN	JKH
P:7470A	MB 280-23663/1-A		280-24567	280-23663	07/21/2010 15:55	1	TAL DEN	KS
A:7470A	MB 280-23663/1-A		280-24567	280-23663	07/27/2010 13:02	1	TAL DEN	KS
A:300.0	MB 280-24802/6		280-24802		07/20/2010 15:35	1	TAL DEN	EK
A:300.0	MB 280-24803/6		280-24803		07/20/2010 15:35	1	TAL DEN	EK
A:SM 1030F	MB 280-25120/1		280-25120		08/02/2010 09:32	1	TAL DEN	RS
A:SM 2320B	MB 280-24018/35		280-24018		07/22/2010 19:18	1	TAL DEN	EK
A:SM 2510B	MB 280-23905/5		280-23905		07/22/2010 15:19	1	TAL DEN	PMP
A:SM 2540C	MB 280-24407/1		280-24407		07/27/2010 14:50	1	TAL DEN	BJD

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 280-24296/2		280-24296		07/26/2010 10:48	1	TAL DEN	BER
A:8021B	LCS 280-24296/2		280-24296		07/26/2010 10:48	1	TAL DEN	BER
A:RSK-175	LCS 280-23858/2		280-23858		07/21/2010 13:28	1	TAL DEN	TEM
P:3010A	LCS 280-23631/2-A		280-24293	280-23631	07/24/2010 10:30	1	TAL DEN	JKH
A:6010B	LCS 280-23631/2-A		280-24293	280-23631	07/27/2010 03:35	1	TAL DEN	JKH
P:3010A	LCS 280-23631/2-A		280-24875	280-23631	07/24/2010 10:30	1	TAL DEN	JKH
A:6010B	LCS 280-23631/2-A		280-24875	280-23631	07/29/2010 18:36	1	TAL DEN	JKH
P:7470A	LCS 280-23663/2-A		280-24567	280-23663	07/21/2010 15:55	1	TAL DEN	KS
A:7470A	LCS 280-23663/2-A		280-24567	280-23663	07/27/2010 13:09	1	TAL DEN	KS
A:300.0	LCS 280-24802/4		280-24802		07/20/2010 15:02	1	TAL DEN	EK
A:300.0	LCS 280-24803/4		280-24803		07/20/2010 15:02	1	TAL DEN	EK
A:SM 2320B	LCS 280-24018/33		280-24018		07/22/2010 19:01	1	TAL DEN	EK
A:SM 2510B	LCS 280-23905/3		280-23905		07/22/2010 15:19	1	TAL DEN	PMP
A:SM 2540C	LCS 280-24407/2		280-24407		07/27/2010 14:50	1	TAL DEN	BJD
A:SM 4500 H+ B	LCS 280-23757/5		280-23757		07/21/2010 09:18	1	TAL DEN	LMK

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

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 280-24296/3		280-24296		07/26/2010 11:24	1	TAL DEN	BER
A:8021B	LCSD 280-24296/3		280-24296		07/26/2010 11:24	1	TAL DEN	BER
A:RSK-175	LCSD 280-23858/3		280-23858		07/21/2010 13:32	1	TAL DEN	TEM
A:300.0	LCSD 280-24802/5		280-24802		07/20/2010 15:18	1	TAL DEN	EK
A:300.0	LCSD 280-24803/5		280-24803		07/20/2010 15:18	1	TAL DEN	EK
A:SM 2320B	LCSD 280-24018/34		280-24018		07/22/2010 19:11	1	TAL DEN	EK
A:SM 2510B	LCSD 280-23905/4		280-23905		07/22/2010 15:19	1	TAL DEN	PMP
A:SM 2540C	LCSD 280-24407/3		280-24407		07/27/2010 14:50	1	TAL DEN	BJD
A:SM 4500 H+ B	LCSD 280-23757/6		280-23757		07/21/2010 09:21	1	TAL DEN	LMK

Lab ID: MRL

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	MRL 280-24802/3		280-24802		07/20/2010 14:45	1	TAL DEN	EK
A:300.0	MRL 280-24803/3		280-24803		07/20/2010 14:45	1	TAL DEN	EK

Lab ID: MS

Client ID: N/A

Sample Date/Time: 07/19/2010 09:23

Received Date/Time: 07/19/2010 16:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	280-5459-A-1-B MS		280-24293	280-23631	07/24/2010 10:30	1	TAL DEN	JKH
A:6010B	280-5459-A-1-B MS		280-24293	280-23631	07/27/2010 04:01	1	TAL DEN	JKH
P:3010A	280-5459-A-1-B MS		280-24875	280-23631	07/24/2010 10:30	1	TAL DEN	JKH
A:6010B	280-5459-A-1-B MS		280-24875	280-23631	07/29/2010 18:43	1	TAL DEN	JKH
P:7470A	280-5400-A-3-E MS		280-24567	280-23663	07/21/2010 15:55	1	TAL DEN	KS
A:7470A	280-5400-A-3-E MS		280-24567	280-23663	07/27/2010 13:21	1	TAL DEN	KS
A:300.0	280-5469-A-13 MS		280-24802		07/20/2010 16:26	1	TAL DEN	EK
A:300.0	280-5469-A-13 MS		280-24803		07/20/2010 16:26	1	TAL DEN	EK

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Laboratory Chronicle

Lab ID: MSD

Client ID: N/A

Sample Date/Time: 07/19/2010 09:23

Received Date/Time: 07/19/2010 16:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	280-5459-A-1-C MSD		280-24293	280-23631	07/24/2010 10:30	1	TAL DEN	JKH
A:6010B	280-5459-A-1-C MSD		280-24293	280-23631	07/27/2010 04:04	1	TAL DEN	JKH
P:3010A	280-5459-A-1-C MSD		280-24875	280-23631	07/24/2010 10:30	1	TAL DEN	JKH
A:6010B	280-5459-A-1-C MSD		280-24875	280-23631	07/29/2010 18:45	1	TAL DEN	JKH
P:7470A	280-5400-A-3-F MSD		280-24567	280-23663	07/21/2010 15:55	1	TAL DEN	KS
A:7470A	280-5400-A-3-F MSD		280-24567	280-23663	07/27/2010 13:23	1	TAL DEN	KS
A:300.0	280-5469-A-13 MSD		280-24802		07/20/2010 17:20	1	TAL DEN	EK
A:300.0	280-5469-A-13 MSD		280-24803		07/20/2010 17:20	1	TAL DEN	EK

Lab ID: DU

Client ID: N/A

Sample Date/Time: 07/19/2010 12:46

Received Date/Time: 07/20/2010 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-5469-A-13 DU		280-24802		07/20/2010 16:09	1	TAL DEN	EK
A:300.0	280-5469-A-13 DU		280-24803		07/20/2010 16:09	1	TAL DEN	EK
A:SM 2320B	280-5399-A-1 DU		280-24018		07/22/2010 19:35	1	TAL DEN	EK
A:SM 2510B	280-5344-C-1 DU		280-23905		07/22/2010 15:19	1	TAL DEN	PMP
A:SM 2540C	280-5469-A-13 DU		280-24407		07/27/2010 14:50	1	TAL DEN	BJD

Lab ID: SD

Client ID: N/A

Sample Date/Time: 07/19/2010 09:23

Received Date/Time: 07/19/2010 16:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	280-5459-A-1-A SD ^5		280-24293	280-23631	07/24/2010 10:30	5	TAL DEN	JKH
A:6010B	280-5459-A-1-A SD ^5		280-24293	280-23631	07/27/2010 03:59	5	TAL DEN	JKH
P:3010A	280-5459-A-1-A SD ^5		280-24875	280-23631	07/24/2010 10:30	5	TAL DEN	JKH
A:6010B	280-5459-A-1-A SD ^5		280-24875	280-23631	07/29/2010 18:41	5	TAL DEN	JKH

Lab References:

TAL DEN = TestAmerica Denver

Method 8021B

Volatile Organic Compounds (GC) by
Method 8021B

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-5486-1
 SDG No.: _____
 Client Sample ID: KING WATER WELL Lab Sample ID: 280-5486-1
 Matrix: Water Lab File ID: 115F0601.D
 Analysis Method: 8021B Date Collected: 07/20/2010 09:25
 Sample wt/vol: 5(mL) Date Analyzed: 07/26/2010 13:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX VRX ID: 0.45 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 24296 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.50	0.065
100-41-4	Ethylbenzene	ND		0.50	0.10
108-88-3	Toluene	ND		0.50	0.17
179601-23-1	m-Xylene & p-Xylene	ND		0.50	0.19
95-47-6	o-Xylene	ND		0.50	0.23

CAS NO.	SURROGATE	%REC	LIMITS	Q
98-08-8	a,a,a-Trifluorotoluene	100	85-115	

TestAmerica

VOLATILE REPORT SOW 3/90

Data file : \\DenSvr03\Public\chem\GCV\GC_P.i\0727101.B\115F0601.D
Lab Smp Id: 280-5486-F-1 Client Smp ID: KING WATER WELL
Inj Date : 26-JUL-2010 13:01
Operator : BR Inst ID: GC_P.i
Smp Info : 280-5486-f-1
Misc Info : 280-5486-F-1
Comment : REV. OLM01.1.1
Method : \\DenSvr03\Public\chem\GCV\GC_P.i\0727101.B\P1.m
Meth Date : 26-Jul-2010 11:39 reamb Quant Type: ISTD
Cal Date : 22-APR-2010 18:48 Cal File: 116F1101.D
Als bottle: 115
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Arom.A.01.sub
Target Version: 4.14
Processing Host: DENPC252

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

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

		CONCENTRATIONS				
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)
						FINAL (ug/L)
Compounds						
1	Methyl tert-butylether				Compound Not Detected.	
2	Benzene				Compound Not Detected.	
\$ 3	Trifluorotoluene	8.996	9.060	(0.711)	111242	30.0813
4	Toluene				Compound Not Detected.	
* 5	1-Chloro-4-fluorobenzene	12.653	12.690	(1.000)	162258	30.0000
6	Chlorobenzene				Compound Not Detected.	
7	Ethylbenzene				Compound Not Detected.	
8	m+p-Xylene				Compound Not Detected.	
9	o-Xylene				Compound Not Detected.	
10	1,3-Dichlorobenzene				Compound Not Detected.	
11	1,4-Dichlorobenzene				Compound Not Detected.	
12	1,2-Dichlorobenzene				Compound Not Detected.	
M 15	Total Xylene				Compound Not Detected.	

Data File: 115F0601.D

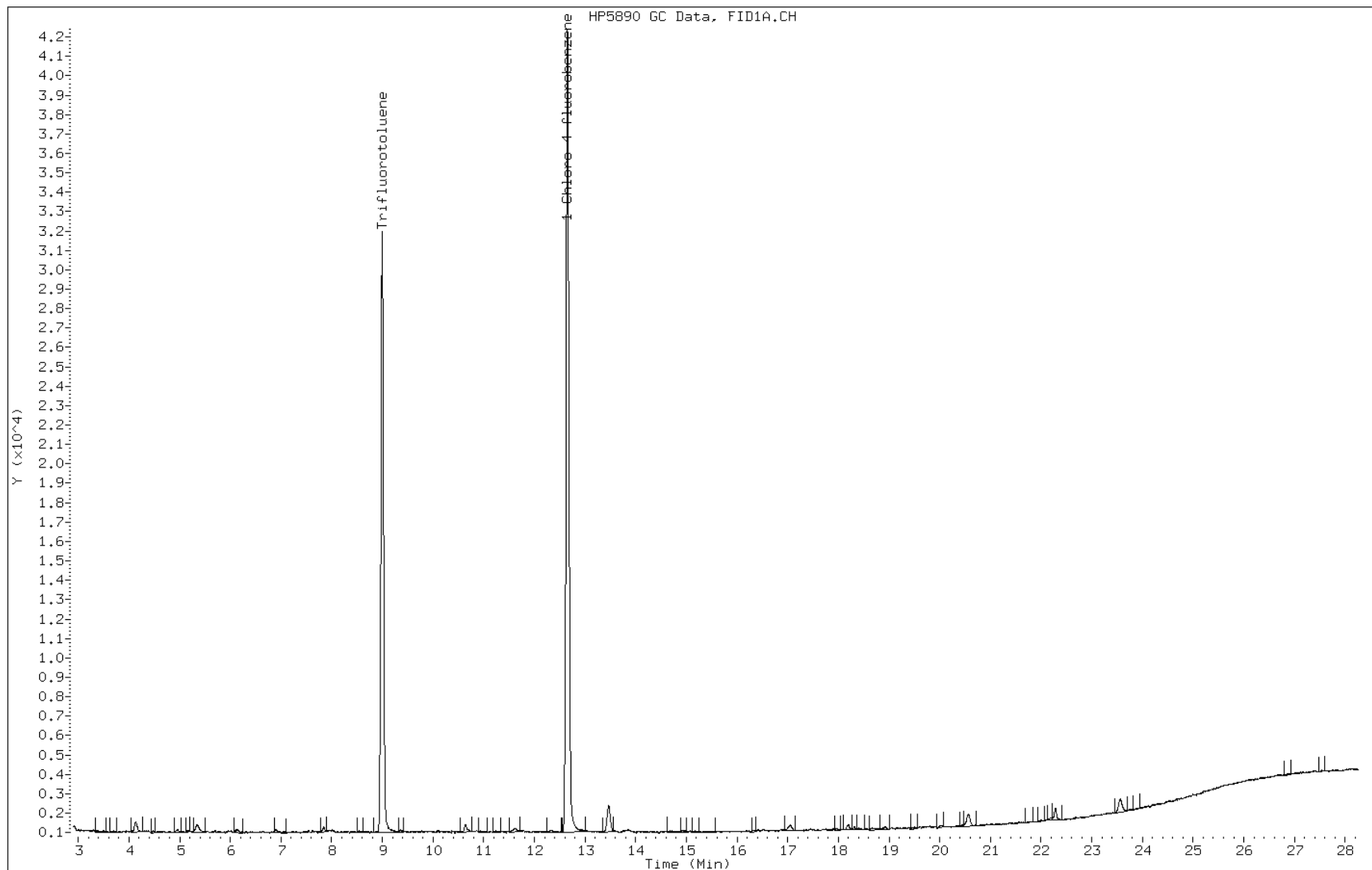
Date: 26-JUL-2010 13:01

Client ID: KING WATER WELL

Instrument: GC_P.i

Sample Info: 280-5486-f-1

Operator: BR



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-5486-1
SDG No.: _____
Client Sample ID: KING WATER WELL Lab Sample ID: 280-5486-1
Matrix: Water Lab File ID: 115F0601.D
Analysis Method: 8021B Date Collected: 07/20/2010 09:25
Sample wt/vol: 5(mL) Date Analyzed: 07/26/2010 13:01
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RTX 502.2 (75) ID: 0.45(mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 24296 Units: ug/L

CAS NO.	SURROGATE	%REC	LIMITS	Q
98-08-8	a,a,a-Trifluorotoluene	97	85-115	

TestAmerica

VOLATILE REPORT SOW 3/90

Data file : \\DenSvr03\Public\chem\GCV\GC_P.i\0727102.B\115F0601.D
 Lab Smp Id: 280-5486-F-1 Client Smp ID: KING WATER WELL
 Inj Date : 26-JUL-2010 13:01
 Operator : BR Inst ID: GC_P.i
 Smp Info : 280-5486-f-1
 Misc Info : 280-5486-F-1
 Comment : REV. OLM01.1.1
 Method : \\DenSvr03\Public\chem\GCV\GC_P.i\0727102.B\P2.m
 Meth Date : 26-Jul-2010 11:39 reamb Quant Type: ISTD
 Cal Date : 22-APR-2010 15:05 Cal File: 110F0501.D
 Als bottle: 115
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: Arom.A.01.sub
 Target Version: 4.14
 Processing Host: DENPC252

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

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

Compounds	CONCENTRATIONS					
	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/L)
1 Methyl tert-butylether				Compound Not Detected.		
2 Benzene				Compound Not Detected.		
\$ 3 Trifluorotoluene	9.500	9.563	(0.672)	199606	29.0986	29.0986
4 Toluene				Compound Not Detected.		
* 5 1-Chloro-4-fluorobenzene	14.140	14.186	(1.000)	304645	30.0000	
6 Chlorobenzene				Compound Not Detected.		
7 Ethylbenzene				Compound Not Detected.		
8 m+p-Xylene				Compound Not Detected.		
9 o-Xylene				Compound Not Detected.		
10 1,3-Dichlorobenzene				Compound Not Detected.		
11 1,4-Dichlorobenzene				Compound Not Detected.		
12 1,2-Dichlorobenzene				Compound Not Detected.		
M 15 Total Xylene				Compound Not Detected.		

Data File: 115F0601.D

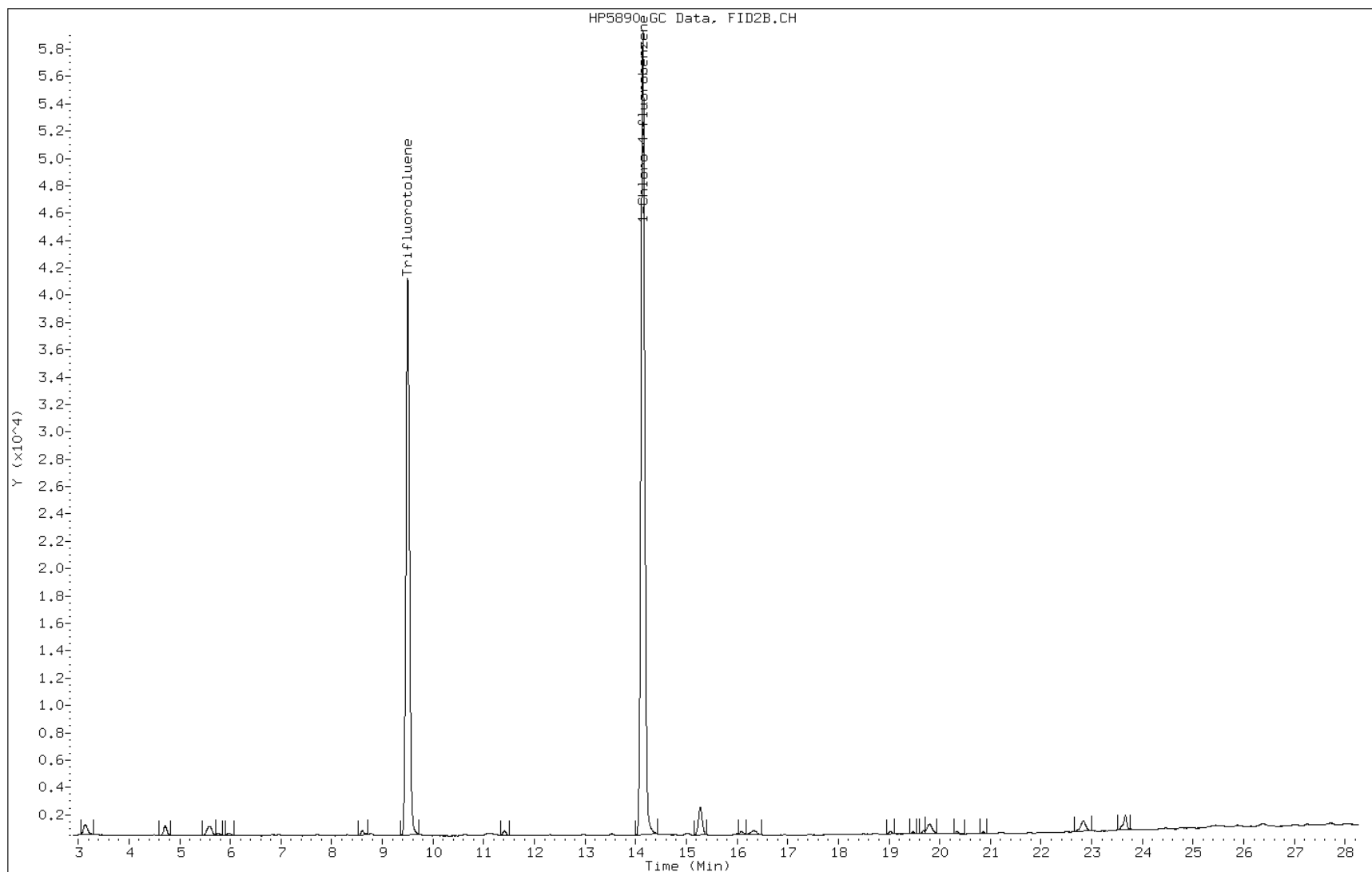
Date: 26-JUL-2010 13:01

Client ID: KING WATER WELL

Instrument: GC_P.i

Sample Info: 280-5486-f-1

Operator: BR



Method RSK-175

Dissolved Gases (GC) by Method
RSK_175

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-5486-1
SDG No.: _____
Client Sample ID: KING WATER WELL Lab Sample ID: 280-5486-1
Matrix: Water Lab File ID: 008F0801.D
Analysis Method: RSK-175 Date Collected: 07/20/2010 09:25
Sample wt/vol: 18 (mL) Date Analyzed: 07/21/2010 15:54
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RT-VPLOT ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 23858 Units: ug/L

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

TestAmerica

RSK-175 Dissolved Gasses in Water

Data file : \\DenSvr03\Public\chem\GCV\GC_J.i\0721101.B\008F0801.D
Lab Smp Id: 280-5486-H-1 Client Smp ID: KING WATER WELL
Inj Date : 21-JUL-2010 15:54
Operator : TM Inst ID: GC_J.i
Smp Info : 280-5486-H-1
Misc Info : 280-5486-H-1
Comment : SOP: DV-GC-0025
Method : \\DenSvr03\Public\chem\GCV\GC_J.i\0721101.B\RSK-1_7PT.m
Meth Date : 22-Jul-2010 10:45 mooret Quant Type: ESTD
Cal Date : 21-JUN-2010 13:16 Cal File: 008F0801.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.01.sub
Target Version: 4.14
Processing Host: DENPC124

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

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
=====	====	=====	=====	=====	=====	=====
1 Methane	1.281	1.283	-0.002	6477	4.21075	4.211(a)
2 Ethene	Compound Not Detected.					
3 Ethane	Compound Not Detected.					
4 Acetylene	Compound Not Detected.					

QC Flag Legend

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

Data File: 008F0801.D

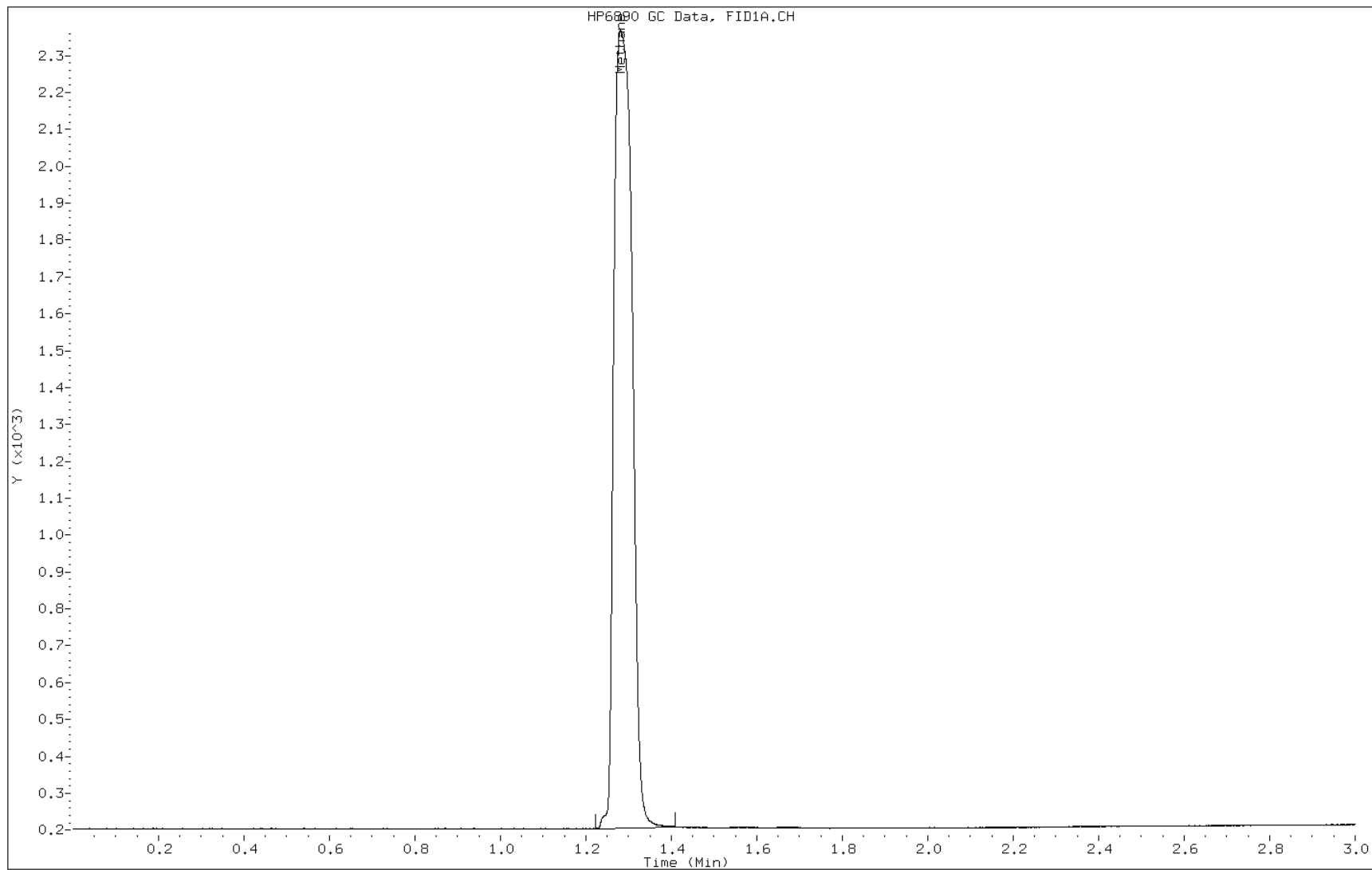
Date: 21-JUL-2010 15:54

Client ID: KING WATER WELL

Instrument: GC_J.i

Sample Info: 280-5486-H-1

Operator: TM



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-5486-1
SDG No.: _____
Client Sample ID: KING WATER WELL Lab Sample ID: 280-5486-1
Matrix: Water Lab File ID: 008F0801.D
Analysis Method: RSK-175 Date Collected: 07/20/2010 09:25
Sample wt/vol: 18 (mL) Date Analyzed: 07/21/2010 15:54
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RT-3PLOT ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 23858 Units: ug/L

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

TestAmerica

RSK-175 Dissolved Gasses in Water

Data file : \\DenSvr03\Public\chem\GCV\GC_J.i\0721102.B\008F0801.D
 Lab Smp Id: 280-5486-H-1 Client Smp ID: KING WATER WELL
 Inj Date : 21-JUL-2010 15:54
 Operator : TM Inst ID: GC_J.i
 Smp Info : 280-5486-H-1
 Misc Info : 280-5486-H-1
 Comment : SOP: DV-GC-0025
 Method : \\DenSvr03\Public\chem\GCV\GC_J.i\0721102.B\RSK-2_7PT.m
 Meth Date : 22-Jul-2010 10:49 mooret Quant Type: ESTD
 Cal Date : 21-JUN-2010 13:16 Cal File: 008F0801.D
 Als bottle: 8
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: RSK175.01.sub
 Target Version: 4.14
 Processing Host: DENPC124

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

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
=====	====	=====	=====	=====	=====	=====
1 Methane	1.710	1.713	-0.003	3906	4.26675	4.267(a)
2 Ethene	Compound Not Detected.					
3 AcetyleneEthane	Compound Not Detected.					

QC Flag Legend

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

Data File: 008F0801.D

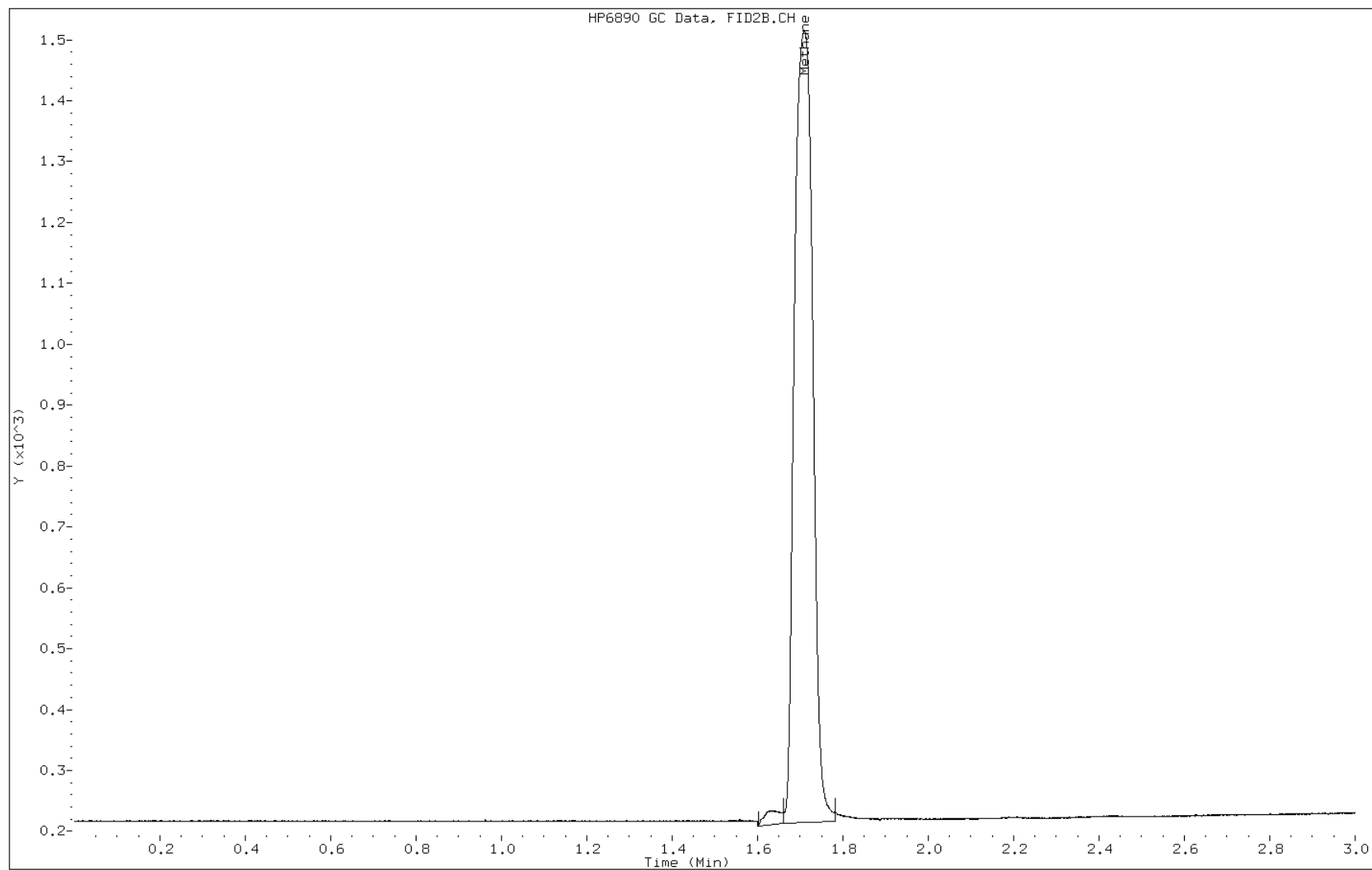
Date: 21-JUL-2010 15:54

Client ID: KING WATER WELL

Instrument: GC_J.i

Sample Info: 280-5486-H-1

Operator: TM



Shipping and Receiving Documents

Login Sample Receipt Check List

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-5486-1

Login Number: 5486

List Source: TestAmerica Denver

Creator: Bindel, Aaron M

List Number: 1

Question	T / F / NA	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	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	