



Rev 8/2007

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax:(303) 894-2109

Date:

Complaint Report

This form may be submitted by any party with a complaint regarding oil and gas extractive operations. The complainant is to complete this form and mail to: COGCC, 1120 Lincoln St. Ste. 801, Denver, CO 80203 or fax to (303) 894-2109. COGCC will investigate the complaint and determine what action, if any, should be taken.

Complaint Taken By: ikenouyt

API Number: - -

Facility ID:

Doc Num: 200428126

Complainant Information

Name of Complainant: Anonymous

Address: Anonymous

City: Anonymous State: An Zip:

Connection to incident (Land Owner, Royalty Owner, ect.): Resident

Phone: .

Work: .

Cell: .

Fax: .

Email:

Date Initial Contact Made:

Description Of Complaint

Name of Operator:

Date of Incident: 4/2/2015 12:00:00 AM

Type of Facility (Well, Tank, Battery, Flow Line, Pit):

Well Name and Number:

OGCC Operator Number:

Facility Name:

QtrQtr: Section:

Township: Range:

Meridian:

County:

Was the operator contacted? N If yes, contact name:

Complaint IssuesCategoryAssigned toDescription

WATER WELL

Alex Fischer

Location: SWSE Section 23 T6N R 81W, Jackson County

They are concerned about the possibility of arsenic in their well water (after reading an article from USGS).

Other Notifications



Residential Water Well Field Data Form

Project Name: Maxwell Water Well SamplingProject Number: 014714001.03Sample Date: 4/1/2015Permit No: 105771Receipt No: 9119007Owner: Max & Jean MaxwellAddress: 13254 Highway 14Walden, CO 80430Location: SpigotWeather: sunny, 40's

Well Owner Survey

Is there a holding tank for the well?

Yes: ☐No: ☒

Do you have a water softener/treatment system?

Yes: ☒No: ☐

Do you have an in-line filter?

Yes: ☐No: ☒

Sampling point upstream of pressure tank and treatment system?

Yes: ☒No: ☐Location of well: 75 feet west of well on south side of house, Approx 20 feet east from southwest corner of houseType of pump (jet, submersible, suction): submersible pumpCasing material and diameter: 8 inch carbon steel and PVCDepth to Static Water Table (fluctuations): 60 feetDescription of area around well: uphill from house, residentialLocation and description of sample point: spigot 20 feet east from southwest corner of housePump start time: 1154Pumping rate: 4 gpm

Time	Flow Rate (gpm)	pH (SI Units)	Specific Cond. (µs/cm)	DO (mg/L)	Temperature (°C)	Clarity
1157	4	6.24	689	2.49	9.28	clear
1200	4	6.08	715	2.59	9.40	clear
1203	4	6.03	716	2.84	9.55	clear
1206	4	5.96	717	3.17	9.67	clear
1209	4	5.94	717	3.10	9.70	clear
1211	4	5.92	716	2.88	9.71	clear
1214	4	5.92	715	2.74	9.71	clear

Notes: SI - standard units

µs/cm - microsiemens per centimeter

mg/L - milligrams per liter

°C - degree Celsius

gpm - gallons per minute

Field Sample ID: Maxwell 9119007Collection Time: 1233Number of Containers: 12Sampler: Liz McNicholas, LT Environmental

Analyte	Number of Containers	Container Size	Type	Analytical Method	Preservative
Dissolved Gases - Methane	3	40 mL	VOA	RSK 175	None
BTEX	3	40 mL	VOA	8260	HCl
Semivolatile Organic Compounds	2	1 liter	Amber	8270C	None
Alkalinity/pH/Specific Conductance/TDS/Bromide/Fluoride, Chloride, Sulfate, Nitrate, Nitrite, Phosphorus	1	1 liter	Plastic	2510B, 2320B, SM4500, 300.0_28D	None
Total Metals/SAR	1	500 mL	Plastic	6010B	HNO ₃
Isotopic Methane	1	1 liter	Plastic	NG3	Biocide Capsule
BART	1	20 mL	Plastic	Observation	None

Notes: BART - Biological Activity Reaction Test

mL - Milliliter

BTEX - Benzene, Toluene, Ethylbenzene, Xylene (total)

N - Nitrogen

HCl - Hydrochloric Acid

SAR - Sodium Absorption Ratio

HNO₃ - Nitric Acid

TDS - Total Dissolved Solids

H₂SO₄ - Sulfuric Acid

VOA - Volatile Organic Analysis Bottle

Duplicate sample collected?



Yes:



No:

Duplicate ID: NA

GPS Coordinates

Latitude: 40.469913Longitude: -106.453553

Comments: At 1217, flow rate was adjusted to <1 gpm. Sample was clear, colorless, no odor, and no effervescence. Water from spigot was diverted prior to water softener. Trip blank for BTEX. Well (40.469939/-106.453312, PDOP: 2.5). Spigot-sample location (40.469913/-106.453553, PDOP: 5.1)

TABLE 1
ANALYTICAL SUMMARY
Water Well Sample - Complaint #200428126
Maxwell Water Well

Doc# 2143390

Parameter	Water Well Sample		CDPHE Standards		
	Sample Date				
	April 1, 2015				
	Result	Unit	Domestic Water Supply - Human Health Standards	Agicultural Standards	Units
Arsenic	ND	mg/l	0.05	0.1	mg/l
Barium	0.018	mg/l	2.0	NS	mg/l
Cadmium	NA	mg/l	0.005	0.01	mg/l
Chromium	NA	mg/l	0.1	0.1	mg/l
Fluoride	0.59	mg/l	4.0	2	mg/l
Lead	NA	mg/l	0.05	0.1	mg/l
Nitrite	ND	mg/l	1.0	10	mg/l
Nitrate	0.5	mg/l	10.0	100	mg/l
Total Nitrite/Nitrate	0.5	mg/l	10.0	100	mg/l
Selenium	0.0016	mg/l	0.05	0.02	mg/l
Silver	NA	mg/l	0.05	NS	mg/l
Uranium	NA	mg/l	0.03	NS	mg/l
	Result	Unit	Domestic Water Supply - Drinking Water (Secondary) Standards	Agicultural Standards	Units
Chloride	8.3	mg/l	250	NS	mg/l
Copper	NA	mg/l	1	0.2	mg/l
Iron	0.022	mg/l	0.3	5	mg/l
Manganese	0.62	mg/l	0.05	0.2	mg/l
pH	7.4	No units	6.5 - 8.5	6.5 - 8.5	No units
Sulfate	170	mg/l	250	NS	mg/l
Total Dissolved Solids	450	mg/l	500	*1500	mg/l
Calcium	83	mg/l	NS	NS	mg/l
Magnesium	33	mg/l	NS	NS	mg/l
Potassium	2.7	mg/l	NS	NS	mg/l
Sodium	12	mg/l	NS	NS	mg/l
Bromide	ND	mg/l	NS	NS	mg/l
Carbonate	ND	mg/l	NS	NS	mg/l
Bicarbonate	200	mg/l	NS	NS	mg/l
Total Alkalinity	200	mg/l	NS	NS	mg/l
Conductivity	717	mmhos/cm	NS	NS	mg/l
Sodium Adsorption Ratio	NA	No units	NS	NS	mg/l
Methane	ND	mg/l	NS	NS	mg/l

Notes

CDPHE Standards	Water Quality Control Commission 5 CCR 1002-41, Regulation No. 41 - The Basic Standards For Groundwater.
mg/l	Milligrams per liter (equals parts per million).
mmhos/cm	millimhos per centimeer
NA	Not analyzed.
ND	Not detected.
NS	No Standard.
**	Health Advisory.
	Human health standard.
	Secondary standard.

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Denver

4955 Yarrow Street

Arvada, CO 80002

Tel: (303)736-0100

TestAmerica Job ID: 280-67246-1

Client Project/Site: COGCC - Maxwell Water Well Sampling

Revision: 1

For:

Colorado Oil&Gas Conservation Commision

1120 Lincoln St.

Suite 801

Denver, Colorado 80203

Attn: Kris Neidel



Authorized for release by:

5/7/2015 3:25:57 PM

Donna Rydberg, Senior Project Manager

(303)736-0192

donna.rydberg@testamericainc.com

LINKS

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results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions	5
Detection Summary	6
Method Summary	7
Sample Summary	8
Client Sample Results	9
Surrogate Summary	13
QC Association	14
QC Sample Results	17
Chronicle	28
Receipt Checklists	29
Chain of Custody	30

Case Narrative

Client: Colorado Oil&Gas Conservation Commission
Project/Site: COGCC - Maxwell Water Well Sampling

TestAmerica Job ID: 280-67246-1

Job ID: 280-67246-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: Colorado Oil&Gas Conservation Commission

Project: COGCC - Maxwell Water Well Sampling

Report Number: 280-67246-1

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 4/1/2015 at 6:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.9°C.

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC). Per the containers received, a trip blank sample was logged. The client was notified on 4/02/2015.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MAXWELL 9119007 (280-67246-1) and TRIP BLANK (280-67246-2) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 04/03/2015.

Sample MAXWELL 9119007 (280-67246-1), requesting 8260B analysis, was received at the laboratory at a pH greater than 2. However, the bottle is labeled as HCl preserved. The sample was analyzed well within the required hold time.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample MAXWELL 9119007 (280-67246-1) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED GASES

Sample MAXWELL 9119007 (280-67246-1) was analyzed for dissolved gases in accordance with RSK_175.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL METALS

Sample MAXWELL 9119007 (280-67246-1) was analyzed for total metals in accordance with EPA SW-846 Method 6010B.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL METALS

Sample MAXWELL 9119007 (280-67246-1) was analyzed for total metals in accordance with EPA SW-846 Method 6020.

Case Narrative

Client: Colorado Oil&Gas Conservation Commission
Project/Site: COGCC - Maxwell Water Well Sampling

TestAmerica Job ID: 280-67246-1

Job ID: 280-67246-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ALKALINITY

Sample MAXWELL 9119007 (280-67246-1) was analyzed for Alkalinity in accordance with SM20 2320B.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SPECIFIC CONDUCTIVITY

Sample MAXWELL 9119007 (280-67246-1) was analyzed for specific conductivity in accordance with SM20 2510B.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL DISSOLVED SOLIDS

Sample MAXWELL 9119007 (280-67246-1) was analyzed for total dissolved solids in accordance with SM20 2540C.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS (28 DAYS)

Sample MAXWELL 9119007 (280-67246-1) was analyzed for anions (28 days) in accordance with EPA Method 300.0.

Chloride was detected in method blanks MB 280-270888/13 and MB 280-270888/37 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

The Matrix Spike and Matrix Spike Duplicate (MS/MSD) were performed on sample MAXWELL 9119007 (280-67246-1) in batch 280-270888. The MS/MSD recoveries were outside control limits for Fluoride. The presence of the '4' qualifier indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount. The associated LCS and LCSD samples were in control and provide evidence that operating procedures were in control.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS (48 HOURS)

Sample MAXWELL 9119007 (280-67246-1) was analyzed for anions (48 hours) in accordance with EPA Method 300.0.

The Matrix Spike and Matrix Spike Duplicate (MS/MSD) were performed on sample MAXWELL 9119007 (280-67246-1) in batch 270887. The MS/MSD recoveries were outside control limits for Orthophosphate as P. The associated LCS and LCSD samples were in control and provide evidence that operating procedures were in control.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CATION ANION BALANCE

Sample MAXWELL 9119007 (280-67246-1) was analyzed for Cation Anion Balance in accordance with Cation Anion Balance.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CORROSIVITY (PH)

Sample MAXWELL 9119007 (280-67246-1) was analyzed for corrosivity (pH) in accordance with SM20 4500 H+ B.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

REVISION 1 - 5/7/15

The client asked the lab to go back and report Arsenic by method 6010. This was not originally requested on the chain of custody. The data for Arsenic is now included in the report. No other changes were made.

Definitions/Glossary

Client: Colorado Oil&Gas Conservation Commision
Project/Site: COGCC - Maxwell Water Well Sampling

TestAmerica Job ID: 280-67246-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
E	Result exceeded calibration range.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Colorado Oil&Gas Conservation Commision
Project/Site: COGCC - Maxwell Water Well Sampling

TestAmerica Job ID: 280-67246-1

Client Sample ID: MAXWELL 9119007

Lab Sample ID: 280-67246-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Barium	18		10	0.58 ug/L	1		6010B	Total/NA
Boron	33	J	100	4.4 ug/L	1		6010B	Total/NA
Calcium	83000		200	35 ug/L	1		6010B	Total/NA
Iron	22	J	100	22 ug/L	1		6010B	Total/NA
Magnesium	33000		200	11 ug/L	1		6010B	Total/NA
Manganese	620		10	0.25 ug/L	1		6010B	Total/NA
Potassium	2700	J	3000	240 ug/L	1		6010B	Total/NA
Sodium	12000		1000	92 ug/L	1		6010B	Total/NA
Strontium	1100		10	0.30 ug/L	1		6010B	Total/NA
Selenium	1.6	J	5.0	0.70 ug/L	1		6020	Total/NA
Nitrate as N	0.50		0.50	0.042 mg/L	1		300.0	Total/NA
Chloride	8.3	B	3.0	0.25 mg/L	1		300.0	Total/NA
Fluoride	0.59	F1	0.50	0.060 mg/L	1		300.0	Total/NA
Sulfate	170		5.0	0.23 mg/L	1		300.0	Total/NA
Total Anions	7.8			meq/L	1		SM 1030F	Total/NA
Total Cations	7.4			meq/L	1		SM 1030F	Total/NA
Percent Difference	-2.5			%	1		SM 1030F	Total/NA
Anion/Cation Balance	-2.5			%	1		SM 1030F	Total/NA
Total Alkalinity	200		5.0	1.1 mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	200		5.0	1.1 mg/L	1		SM 2320B	Total/NA
Specific Conductance	500		2.0	2.0 umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	450		10	4.7 mg/L	1		SM 2540C	Total/NA
pH	7.40	HF	0.100	0.100 SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 280-67246-2

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Method Summary

Client: Colorado Oil&Gas Conservation Commision
Project/Site: COGCC - Maxwell Water Well Sampling

TestAmerica Job ID: 280-67246-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL DEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL DEN
RSK-175	Dissolved Gases (GC)	RSK	TAL DEN
6010B	Metals (ICP)	SW846	TAL DEN
6020	Metals (ICP/MS)	SW846	TAL DEN
300.0	Anions, Ion Chromatography	MCAWW	TAL DEN
SM 1030F	Cation Anion Balance	SM	TAL DEN
SM 2320B	Alkalinity	SM	TAL DEN
SM 2510B	Conductivity, Specific Conductance	SM	TAL DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL DEN
SM 4500 H+ B	pH	SM	TAL DEN

Protocol 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.

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Colorado Oil&Gas Conservation Commision
Project/Site: COGCC - Maxwell Water Well Sampling

TestAmerica Job ID: 280-67246-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-67246-1	MAXWELL 9119007	Water	04/01/15 12:33	04/01/15 18:05
280-67246-2	TRIP BLANK	Water	04/01/15 12:33	04/01/15 18:05

Client Sample Results

Client: Colorado Oil&Gas Conservation Commision
Project/Site: COGCC - Maxwell Water Well Sampling

TestAmerica Job ID: 280-67246-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: MAXWELL 9119007

Date Collected: 04/01/15 12:33

Date Received: 04/01/15 18:05

Lab Sample ID: 280-67246-1

Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.16 ug/L			04/03/15 13:41	1
Ethylbenzene	ND		1.0	0.16 ug/L			04/03/15 13:41	1
m-Xylene & p-Xylene	ND		2.0	0.34 ug/L			04/03/15 13:41	1
o-Xylene	ND		1.0	0.19 ug/L			04/03/15 13:41	1
Toluene	ND		1.0	0.17 ug/L			04/03/15 13:41	1
Xylenes, Total	ND		2.0	0.19 ug/L			04/03/15 13:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		78 - 120		04/03/15 13:41	1
Dibromofluoromethane (Surr)	91		77 - 120		04/03/15 13:41	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 127		04/03/15 13:41	1
Toluene-d8 (Surr)	94		80 - 125		04/03/15 13:41	1

Client Sample ID: TRIP BLANK

Date Collected: 04/01/15 12:33

Date Received: 04/01/15 18:05

Lab Sample ID: 280-67246-2

Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.16 ug/L			04/03/15 09:55	1
Ethylbenzene	ND		1.0	0.16 ug/L			04/03/15 09:55	1
m-Xylene & p-Xylene	ND		2.0	0.34 ug/L			04/03/15 09:55	1
o-Xylene	ND		1.0	0.19 ug/L			04/03/15 09:55	1
Toluene	ND		1.0	0.17 ug/L			04/03/15 09:55	1
Xylenes, Total	ND		2.0	0.19 ug/L			04/03/15 09:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		78 - 120		04/03/15 09:55	1
Dibromofluoromethane (Surr)	93		77 - 120		04/03/15 09:55	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 127		04/03/15 09:55	1
Toluene-d8 (Surr)	95		80 - 125		04/03/15 09:55	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: MAXWELL 9119007

Date Collected: 04/01/15 12:33

Date Received: 04/01/15 18:05

Lab Sample ID: 280-67246-1

Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		5.0	0.35 ug/L		04/02/15 16:15	04/07/15 20:45	1
1,4-Dichlorobenzene	ND		5.0	0.40 ug/L		04/02/15 16:15	04/07/15 20:45	1
2,2'-oxybis[1-chloropropane]	ND		13	0.35 ug/L		04/02/15 16:15	04/07/15 20:45	1
2,4,5-Trichlorophenol	ND		13	0.56 ug/L		04/02/15 16:15	04/07/15 20:45	1
2,4,6-Trichlorophenol	ND		13	0.36 ug/L		04/02/15 16:15	04/07/15 20:45	1
2,4-Dichlorophenol	ND		13	0.80 ug/L		04/02/15 16:15	04/07/15 20:45	1
2,4-Dimethylphenol	ND		13	0.73 ug/L		04/02/15 16:15	04/07/15 20:45	1
2,4-Dinitrophenol	ND		38	13 ug/L		04/02/15 16:15	04/07/15 20:45	1
2,4-Dinitrotoluene	ND		13	2.1 ug/L		04/02/15 16:15	04/07/15 20:45	1
2,6-Dinitrotoluene	ND		13	2.4 ug/L		04/02/15 16:15	04/07/15 20:45	1
2-Chloronaphthalene	ND		5.0	0.33 ug/L		04/02/15 16:15	04/07/15 20:45	1
2-Chlorophenol	ND		13	2.5 ug/L		04/02/15 16:15	04/07/15 20:45	1
2-Methylnaphthalene	ND		5.0	0.36 ug/L		04/02/15 16:15	04/07/15 20:45	1
2-Methylphenol	ND		13	1.2 ug/L		04/02/15 16:15	04/07/15 20:45	1

TestAmerica Denver

Client Sample Results

Client: Colorado Oil&Gas Conservation Commision
Project/Site: COGCC - Maxwell Water Well Sampling

TestAmerica Job ID: 280-67246-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MAXWELL 9119007

Date Collected: 04/01/15 12:33

Date Received: 04/01/15 18:05

Lab Sample ID: 280-67246-1

Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	ND		13	2.2 ug/L		04/02/15 16:15	04/07/15 20:45	1
2-Nitrophenol	ND		13	0.49 ug/L		04/02/15 16:15	04/07/15 20:45	1
3 & 4 Methylphenol	ND		13	0.31 ug/L		04/02/15 16:15	04/07/15 20:45	1
3,3'-Dichlorobenzidine	ND		63	2.5 ug/L		04/02/15 16:15	04/07/15 20:45	1
3-Nitroaniline	ND		13	2.5 ug/L		04/02/15 16:15	04/07/15 20:45	1
4,6-Dinitro-2-methylphenol	ND		63	5.0 ug/L		04/02/15 16:15	04/07/15 20:45	1
4-Bromophenyl phenyl ether	ND		13	0.54 ug/L		04/02/15 16:15	04/07/15 20:45	1
4-Chloro-3-methylphenol	ND		13	3.0 ug/L		04/02/15 16:15	04/07/15 20:45	1
4-Chloroaniline	ND		13	2.7 ug/L		04/02/15 16:15	04/07/15 20:45	1
4-Chlorophenyl phenyl ether	ND		13	2.1 ug/L		04/02/15 16:15	04/07/15 20:45	1
4-Nitroaniline	ND		13	2.5 ug/L		04/02/15 16:15	04/07/15 20:45	1
4-Nitrophenol	ND		13	1.5 ug/L		04/02/15 16:15	04/07/15 20:45	1
Acenaphthene	ND		5.0	0.35 ug/L		04/02/15 16:15	04/07/15 20:45	1
Acenaphthylene	ND		5.0	0.61 ug/L		04/02/15 16:15	04/07/15 20:45	1
Acetophenone	ND		13	0.30 ug/L		04/02/15 16:15	04/07/15 20:45	1
Anthracene	ND		5.0	0.53 ug/L		04/02/15 16:15	04/07/15 20:45	1
Atrazine	ND		13	0.91 ug/L		04/02/15 16:15	04/07/15 20:45	1
Benzidine	ND		130	63 ug/L		04/02/15 16:15	04/07/15 20:45	1
Benzo[a]anthracene	ND		5.0	0.44 ug/L		04/02/15 16:15	04/07/15 20:45	1
Benzo[a]pyrene	ND		5.0	0.39 ug/L		04/02/15 16:15	04/07/15 20:45	1
Benzo[b]fluoranthene	ND		5.0	0.66 ug/L		04/02/15 16:15	04/07/15 20:45	1
Benzo[g,h,i]perylene	ND		5.0	0.63 ug/L		04/02/15 16:15	04/07/15 20:45	1
Benzo[k]fluoranthene	ND		5.0	0.58 ug/L		04/02/15 16:15	04/07/15 20:45	1
Bis(2-chloroethoxy)methane	ND		13	1.2 ug/L		04/02/15 16:15	04/07/15 20:45	1
Bis(2-chloroethyl)ether	ND		13	0.51 ug/L		04/02/15 16:15	04/07/15 20:45	1
Bis(2-ethylhexyl) phthalate	ND		13	0.70 ug/L		04/02/15 16:15	04/07/15 20:45	1
Butyl benzyl phthalate	ND		5.0	1.3 ug/L		04/02/15 16:15	04/07/15 20:45	1
Caprolactam	ND		13	6.3 ug/L		04/02/15 16:15	04/07/15 20:45	1
Carbazole	ND		5.0	0.54 ug/L		04/02/15 16:15	04/07/15 20:45	1
Chrysene	ND		5.0	0.68 ug/L		04/02/15 16:15	04/07/15 20:45	1
Cresols, Total	ND		13	0.31 ug/L		04/02/15 16:15	04/07/15 20:45	1
Dibenz(a,h)anthracene	ND		5.0	0.64 ug/L		04/02/15 16:15	04/07/15 20:45	1
Dibenzofuran	ND		5.0	0.36 ug/L		04/02/15 16:15	04/07/15 20:45	1
Diethyl phthalate	ND		5.0	0.48 ug/L		04/02/15 16:15	04/07/15 20:45	1
Dimethyl phthalate	ND		5.0	0.26 ug/L		04/02/15 16:15	04/07/15 20:45	1
Di-n-butyl phthalate	ND		5.0	1.5 ug/L		04/02/15 16:15	04/07/15 20:45	1
Di-n-octyl phthalate	ND		5.0	0.44 ug/L		04/02/15 16:15	04/07/15 20:45	1
Fluoranthene	ND		5.0	0.25 ug/L		04/02/15 16:15	04/07/15 20:45	1
Fluorene	ND		5.0	0.39 ug/L		04/02/15 16:15	04/07/15 20:45	1
Hexachlorobenzene	ND		13	0.83 ug/L		04/02/15 16:15	04/07/15 20:45	1
Hexachlorobutadiene	ND		13	4.1 ug/L		04/02/15 16:15	04/07/15 20:45	1
Hexachlorocyclopentadiene	ND		63	13 ug/L		04/02/15 16:15	04/07/15 20:45	1
Hexachloroethane	ND		13	2.6 ug/L		04/02/15 16:15	04/07/15 20:45	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.81 ug/L		04/02/15 16:15	04/07/15 20:45	1
Naphthalene	ND		5.0	0.36 ug/L		04/02/15 16:15	04/07/15 20:45	1
Nitrobenzene	ND		13	1.0 ug/L		04/02/15 16:15	04/07/15 20:45	1
N-Nitrosodi-n-propylamine	ND		13	0.44 ug/L		04/02/15 16:15	04/07/15 20:45	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		13	0.55 ug/L		04/02/15 16:15	04/07/15 20:45	1
Pentachlorophenol	ND		63	25 ug/L		04/02/15 16:15	04/07/15 20:45	1

TestAmerica Denver

Client Sample Results

Client: Colorado Oil&Gas Conservation Commision
Project/Site: COGCC - Maxwell Water Well Sampling

TestAmerica Job ID: 280-67246-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MAXWELL 9119007

Date Collected: 04/01/15 12:33

Date Received: 04/01/15 18:05

Lab Sample ID: 280-67246-1

Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		5.0	0.33 ug/L		04/02/15 16:15	04/07/15 20:45	1
Phenol	ND		13	2.5 ug/L		04/02/15 16:15	04/07/15 20:45	1
Pyrene	ND		13	0.46 ug/L		04/02/15 16:15	04/07/15 20:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	65		48 - 135			04/02/15 16:15	04/07/15 20:45	1
2-Fluorobiphenyl	62		48 - 135			04/02/15 16:15	04/07/15 20:45	1
2-Fluorophenol	62		41 - 135			04/02/15 16:15	04/07/15 20:45	1
Nitrobenzene-d5	67		42 - 135			04/02/15 16:15	04/07/15 20:45	1
Phenol-d5	64		46 - 135			04/02/15 16:15	04/07/15 20:45	1
Terphenyl-d14	64		20 - 135			04/02/15 16:15	04/07/15 20:45	1

Method: RSK-175 - Dissolved Gases (GC)

Client Sample ID: MAXWELL 9119007

Date Collected: 04/01/15 12:33

Date Received: 04/01/15 18:05

Lab Sample ID: 280-67246-1

Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		5.0	0.22 ug/L			04/10/15 16:37	1

Method: 6010B - Metals (ICP)

Client Sample ID: MAXWELL 9119007

Date Collected: 04/01/15 12:33

Date Received: 04/01/15 18:05

Lab Sample ID: 280-67246-1

Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	4.4 ug/L		04/03/15 08:00	04/03/15 18:53	1
Barium	18		10	0.58 ug/L		04/03/15 08:00	04/03/15 18:53	1
Boron	33	J	100	4.4 ug/L		04/03/15 08:00	04/03/15 18:53	1
Calcium	83000		200	35 ug/L		04/03/15 08:00	04/03/15 18:53	1
Iron	22	J	100	22 ug/L		04/03/15 08:00	04/03/15 18:53	1
Magnesium	33000		200	11 ug/L		04/03/15 08:00	04/03/15 18:53	1
Manganese	620		10	0.25 ug/L		04/03/15 08:00	04/03/15 18:53	1
Potassium	2700	J	3000	240 ug/L		04/03/15 08:00	04/03/15 18:53	1
Sodium	12000		1000	92 ug/L		04/03/15 08:00	04/03/15 18:53	1
Strontium	1100		10	0.30 ug/L		04/03/15 08:00	04/03/15 18:53	1

Method: 6020 - Metals (ICP/MS)

Client Sample ID: MAXWELL 9119007

Date Collected: 04/01/15 12:33

Date Received: 04/01/15 18:05

Lab Sample ID: 280-67246-1

Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	1.6	J	5.0	0.70 ug/L		04/02/15 15:23	04/04/15 04:32	1

TestAmerica Denver

Client Sample Results

Client: Colorado Oil&Gas Conservation Commision
Project/Site: COGCC - Maxwell Water Well Sampling

TestAmerica Job ID: 280-67246-1

General Chemistry

Client Sample ID: MAXWELL 9119007

Date Collected: 04/01/15 12:33

Date Received: 04/01/15 18:05

Lab Sample ID: 280-67246-1

Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20	0.11 mg/L			04/02/15 20:00	1
Nitrate as N	0.50		0.50	0.042 mg/L			04/02/15 20:00	1
Chloride	8.3	B	3.0	0.25 mg/L			04/02/15 20:00	1
Nitrite as N	ND		0.50	0.049 mg/L			04/02/15 20:00	1
Fluoride	0.59	F1	0.50	0.060 mg/L			04/02/15 20:00	1
Orthophosphate as P	ND	F1 F2	0.50	0.19 mg/L			04/02/15 20:00	1
Sulfate	170		5.0	0.23 mg/L			04/02/15 20:00	1
Total Anions	7.8			meq/L			04/08/15 13:18	1
Total Cations	7.4			meq/L			04/08/15 13:18	1
Percent Difference	-2.5			%			04/08/15 13:18	1
Anion/Cation Balance	-2.5			%			04/08/15 13:18	1
Total Alkalinity	200		5.0	1.1 mg/L			04/07/15 15:43	1
Bicarbonate Alkalinity as CaCO3	200		5.0	1.1 mg/L			04/07/15 15:43	1
Carbonate Alkalinity as CaCO3	ND		5.0	1.1 mg/L			04/07/15 15:43	1
Hydroxide Alkalinity	ND		5.0	1.1 mg/L			04/07/15 15:43	1
Specific Conductance	500		2.0	2.0 umhos/cm			04/02/15 15:01	1
Total Dissolved Solids	450		10	4.7 mg/L			04/02/15 15:06	1
pH	7.40	HF	0.100	0.100 SU			04/02/15 23:23	1

TestAmerica Denver

Surrogate Summary

Client: Colorado Oil&Gas Conservation Commision
Project/Site: COGCC - Maxwell Water Well Sampling

TestAmerica Job ID: 280-67246-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (78-120)	DBFM (77-120)	12DCE (70-127)	TOL (80-125)
280-67246-1	MAXWELL 9119007	90	91	86	94
280-67246-2	TRIP BLANK	91	93	87	95
LCS 280-270995/4	Lab Control Sample	90	90	84	92
MB 280-270995/6	Method Blank	94	91	83	96

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (48-135)	FBP (48-135)	2FP (41-135)	NBZ (42-135)	PHL (46-135)	TPH (20-135)
280-67246-1	MAXWELL 9119007	65	62	62	67	64	64
LCS 280-270927/2-A	Lab Control Sample	84	76	75	82	77	76
LCSD 280-270927/3-A	Lab Control Sample Dup	82	76	75	80	77	76
MB 280-270927/1-A	Method Blank	67	73	78	83	81	77

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14

QC Association Summary

Client: Colorado Oil&Gas Conservation Commision
Project/Site: COGCC - Maxwell Water Well Sampling

TestAmerica Job ID: 280-67246-1

GC/MS VOA

Analysis Batch: 270995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-67246-1	MAXWELL 9119007	Total/NA	Water	8260B	
280-67246-2	TRIP BLANK	Total/NA	Water	8260B	
LCS 280-270995/4	Lab Control Sample	Total/NA	Water	8260B	
MB 280-270995/6	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 270927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-67246-1	MAXWELL 9119007	Total/NA	Water	3520C	
LCS 280-270927/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 280-270927/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 280-270927/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 271431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-67246-1	MAXWELL 9119007	Total/NA	Water	8270C	270927
LCS 280-270927/2-A	Lab Control Sample	Total/NA	Water	8270C	270927
LCSD 280-270927/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	270927
MB 280-270927/1-A	Method Blank	Total/NA	Water	8270C	270927

GC VOA

Analysis Batch: 272176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-67246-1	MAXWELL 9119007	Total/NA	Water	RSK-175	
LCS 280-272176/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 280-272176/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	
MB 280-272176/5	Method Blank	Total/NA	Water	RSK-175	

Metals

Prep Batch: 270915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-67246-1	MAXWELL 9119007	Total/NA	Water	3020A	
280-67246-1 MS	MAXWELL 9119007	Total/NA	Water	3020A	
280-67246-1 MSD	MAXWELL 9119007	Total/NA	Water	3020A	
LCS 280-270915/2-A	Lab Control Sample	Total/NA	Water	3020A	
MB 280-270915/1-A	Method Blank	Total/NA	Water	3020A	

Prep Batch: 270916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-67246-1	MAXWELL 9119007	Total/NA	Water	3010A	
280-67246-1 MS	MAXWELL 9119007	Total/NA	Water	3010A	
280-67246-1 MSD	MAXWELL 9119007	Total/NA	Water	3010A	
LCS 280-270916/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 280-270916/1-A	Method Blank	Total/NA	Water	3010A	

TestAmerica Denver

QC Association Summary

Client: Colorado Oil&Gas Conservation Commision
Project/Site: COGCC - Maxwell Water Well Sampling

TestAmerica Job ID: 280-67246-1

Metals (Continued)

Analysis Batch: 271268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-67246-1	MAXWELL 9119007	Total/NA	Water	6010B	270916
280-67246-1 MS	MAXWELL 9119007	Total/NA	Water	6010B	270916
280-67246-1 MSD	MAXWELL 9119007	Total/NA	Water	6010B	270916
LCS 280-270916/2-A	Lab Control Sample	Total/NA	Water	6010B	270916
MB 280-270916/1-A	Method Blank	Total/NA	Water	6010B	270916

Analysis Batch: 271295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-67246-1	MAXWELL 9119007	Total/NA	Water	6020	270915
280-67246-1 MS	MAXWELL 9119007	Total/NA	Water	6020	270915
280-67246-1 MSD	MAXWELL 9119007	Total/NA	Water	6020	270915
LCS 280-270915/2-A	Lab Control Sample	Total/NA	Water	6020	270915
MB 280-270915/1-A	Method Blank	Total/NA	Water	6020	270915

General Chemistry

Analysis Batch: 270887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-67246-1	MAXWELL 9119007	Total/NA	Water	300.0	
280-67246-1 DU	MAXWELL 9119007	Total/NA	Water	300.0	
280-67246-1 MS	MAXWELL 9119007	Total/NA	Water	300.0	
280-67246-1 MSD	MAXWELL 9119007	Total/NA	Water	300.0	
LCS 280-270887/11	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-270887/36	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-270887/12	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 280-270887/13	Method Blank	Total/NA	Water	300.0	
MB 280-270887/37	Method Blank	Total/NA	Water	300.0	
MRL 280-270887/10	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 270888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-67246-1	MAXWELL 9119007	Total/NA	Water	300.0	
280-67246-1 DU	MAXWELL 9119007	Total/NA	Water	300.0	
280-67246-1 MS	MAXWELL 9119007	Total/NA	Water	300.0	
280-67246-1 MSD	MAXWELL 9119007	Total/NA	Water	300.0	
LCS 280-270888/11	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-270888/36	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-270888/12	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 280-270888/13	Method Blank	Total/NA	Water	300.0	
MB 280-270888/37	Method Blank	Total/NA	Water	300.0	
MRL 280-270888/10	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 270902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-67246-1	MAXWELL 9119007	Total/NA	Water	SM 2510B	
LCS 280-270902/3	Lab Control Sample	Total/NA	Water	SM 2510B	
MB 280-270902/4	Method Blank	Total/NA	Water	SM 2510B	

TestAmerica Denver

QC Association Summary

Client: Colorado Oil&Gas Conservation Commision
Project/Site: COGCC - Maxwell Water Well Sampling

TestAmerica Job ID: 280-67246-1

General Chemistry (Continued)

Analysis Batch: 270903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-67246-1	MAXWELL 9119007	Total/NA	Water	SM 2540C	
LCS 280-270903/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-270903/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
MB 280-270903/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 271014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-67246-1	MAXWELL 9119007	Total/NA	Water	SM 4500 H+ B	
LCS 280-271014/4	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 271581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-67246-1	MAXWELL 9119007	Total/NA	Water	SM 2320B	
LCS 280-271581/30	Lab Control Sample	Total/NA	Water	SM 2320B	
MB 280-271581/31	Method Blank	Total/NA	Water	SM 2320B	

Analysis Batch: 271684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-67246-1	MAXWELL 9119007	Total/NA	Water	SM 1030F	
MB 280-271684/1	Method Blank	Total/NA	Water	SM 1030F	

QC Sample Results

Client: Colorado Oil&Gas Conservation Commision
Project/Site: COGCC - Maxwell Water Well Sampling

TestAmerica Job ID: 280-67246-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-270995/6

Matrix: Water

Analysis Batch: 270995

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.16 ug/L			04/03/15 08:43	1
Ethylbenzene	ND		1.0	0.16 ug/L			04/03/15 08:43	1
m-Xylene & p-Xylene	ND		2.0	0.34 ug/L			04/03/15 08:43	1
o-Xylene	ND		1.0	0.19 ug/L			04/03/15 08:43	1
Toluene	ND		1.0	0.17 ug/L			04/03/15 08:43	1
Xylenes, Total	ND		2.0	0.19 ug/L			04/03/15 08:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		78 - 120		04/03/15 08:43	1
Dibromofluoromethane (Surr)	91		77 - 120		04/03/15 08:43	1
1,2-Dichloroethane-d4 (Surr)	83		70 - 127		04/03/15 08:43	1
Toluene-d8 (Surr)	96		80 - 125		04/03/15 08:43	1

Lab Sample ID: LCS 280-270995/4

Matrix: Water

Analysis Batch: 270995

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5.00	5.88		ug/L		118	65 - 135
Ethylbenzene	5.00	5.10		ug/L		102	65 - 135
m-Xylene & p-Xylene	5.00	5.03		ug/L		101	65 - 135
o-Xylene	5.00	5.26		ug/L		105	65 - 135
Toluene	5.00	6.14		ug/L		123	65 - 135
Xylenes, Total	10.0	10.3		ug/L		103	65 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		78 - 120
Dibromofluoromethane (Surr)	90		77 - 120
1,2-Dichloroethane-d4 (Surr)	84		70 - 127
Toluene-d8 (Surr)	92		80 - 125

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-270927/1-A

Matrix: Water

Analysis Batch: 271431

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 270927

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		4.0	0.28 ug/L		04/02/15 16:15	04/07/15 13:48	1
1,4-Dichlorobenzene	ND		4.0	0.32 ug/L		04/02/15 16:15	04/07/15 13:48	1
2,2'-oxybis[1-chloropropane]	ND		10	0.28 ug/L		04/02/15 16:15	04/07/15 13:48	1
2,4,5-Trichlorophenol	ND		10	0.45 ug/L		04/02/15 16:15	04/07/15 13:48	1
2,4,6-Trichlorophenol	ND		10	0.29 ug/L		04/02/15 16:15	04/07/15 13:48	1
2,4-Dichlorophenol	ND		10	0.64 ug/L		04/02/15 16:15	04/07/15 13:48	1
2,4-Dimethylphenol	ND		10	0.58 ug/L		04/02/15 16:15	04/07/15 13:48	1
2,4-Dinitrophenol	ND		30	10 ug/L		04/02/15 16:15	04/07/15 13:48	1
2,4-Dinitrotoluene	ND		10	1.7 ug/L		04/02/15 16:15	04/07/15 13:48	1

TestAmerica Denver

QC Sample Results

Client: Colorado Oil&Gas Conservation Commision
Project/Site: COGCC - Maxwell Water Well Sampling

TestAmerica Job ID: 280-67246-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-270927/1-A

Matrix: Water

Analysis Batch: 271431

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 270927

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	ND		10	1.9 ug/L		04/02/15 16:15	04/07/15 13:48	1
2-Chloronaphthalene	ND		4.0	0.26 ug/L		04/02/15 16:15	04/07/15 13:48	1
2-Chlorophenol	ND		10	2.0 ug/L		04/02/15 16:15	04/07/15 13:48	1
2-Methylnaphthalene	ND		4.0	0.29 ug/L		04/02/15 16:15	04/07/15 13:48	1
2-Methylphenol	ND		10	0.98 ug/L		04/02/15 16:15	04/07/15 13:48	1
2-Nitroaniline	ND		10	1.7 ug/L		04/02/15 16:15	04/07/15 13:48	1
2-Nitrophenol	ND		10	0.39 ug/L		04/02/15 16:15	04/07/15 13:48	1
3 & 4 Methylphenol	ND		10	0.25 ug/L		04/02/15 16:15	04/07/15 13:48	1
3,3'-Dichlorobenzidine	ND		50	2.0 ug/L		04/02/15 16:15	04/07/15 13:48	1
3-Nitroaniline	ND		10	2.0 ug/L		04/02/15 16:15	04/07/15 13:48	1
4,6-Dinitro-2-methylphenol	ND		50	4.0 ug/L		04/02/15 16:15	04/07/15 13:48	1
4-Bromophenyl phenyl ether	ND		10	0.43 ug/L		04/02/15 16:15	04/07/15 13:48	1
4-Chloro-3-methylphenol	ND		10	2.4 ug/L		04/02/15 16:15	04/07/15 13:48	1
4-Chloroaniline	ND		10	2.1 ug/L		04/02/15 16:15	04/07/15 13:48	1
4-Chlorophenyl phenyl ether	ND		10	1.7 ug/L		04/02/15 16:15	04/07/15 13:48	1
4-Nitroaniline	ND		10	2.0 ug/L		04/02/15 16:15	04/07/15 13:48	1
4-Nitrophenol	ND		10	1.2 ug/L		04/02/15 16:15	04/07/15 13:48	1
Acenaphthene	ND		4.0	0.28 ug/L		04/02/15 16:15	04/07/15 13:48	1
Acenaphthylene	ND		4.0	0.49 ug/L		04/02/15 16:15	04/07/15 13:48	1
Acetophenone	ND		10	0.24 ug/L		04/02/15 16:15	04/07/15 13:48	1
Anthracene	ND		4.0	0.42 ug/L		04/02/15 16:15	04/07/15 13:48	1
Atrazine	ND		10	0.73 ug/L		04/02/15 16:15	04/07/15 13:48	1
Benzidine	ND		100	50 ug/L		04/02/15 16:15	04/07/15 13:48	1
Benzo[a]anthracene	ND		4.0	0.35 ug/L		04/02/15 16:15	04/07/15 13:48	1
Benzo[a]pyrene	ND		4.0	0.31 ug/L		04/02/15 16:15	04/07/15 13:48	1
Benzo[b]fluoranthene	ND		4.0	0.53 ug/L		04/02/15 16:15	04/07/15 13:48	1
Benzo[g,h,i]perylene	ND		4.0	0.50 ug/L		04/02/15 16:15	04/07/15 13:48	1
Benzo[k]fluoranthene	ND		4.0	0.46 ug/L		04/02/15 16:15	04/07/15 13:48	1
Bis(2-chloroethoxy)methane	ND		10	0.97 ug/L		04/02/15 16:15	04/07/15 13:48	1
Bis(2-chloroethyl)ether	ND		10	0.41 ug/L		04/02/15 16:15	04/07/15 13:48	1
Bis(2-ethylhexyl) phthalate	ND		10	0.56 ug/L		04/02/15 16:15	04/07/15 13:48	1
Butyl benzyl phthalate	ND		4.0	1.0 ug/L		04/02/15 16:15	04/07/15 13:48	1
Caprolactam	ND		10	5.0 ug/L		04/02/15 16:15	04/07/15 13:48	1
Carbazole	ND		4.0	0.43 ug/L		04/02/15 16:15	04/07/15 13:48	1
Chrysene	ND		4.0	0.54 ug/L		04/02/15 16:15	04/07/15 13:48	1
Cresols, Total	ND		10	0.25 ug/L		04/02/15 16:15	04/07/15 13:48	1
Dibenz(a,h)anthracene	ND		4.0	0.51 ug/L		04/02/15 16:15	04/07/15 13:48	1
Dibenzofuran	ND		4.0	0.29 ug/L		04/02/15 16:15	04/07/15 13:48	1
Diethyl phthalate	ND		4.0	0.38 ug/L		04/02/15 16:15	04/07/15 13:48	1
Dimethyl phthalate	ND		4.0	0.21 ug/L		04/02/15 16:15	04/07/15 13:48	1
Di-n-butyl phthalate	ND		4.0	1.2 ug/L		04/02/15 16:15	04/07/15 13:48	1
Di-n-octyl phthalate	ND		4.0	0.35 ug/L		04/02/15 16:15	04/07/15 13:48	1
Fluoranthene	ND		4.0	0.20 ug/L		04/02/15 16:15	04/07/15 13:48	1
Fluorene	ND		4.0	0.31 ug/L		04/02/15 16:15	04/07/15 13:48	1
Hexachlorobenzene	ND		10	0.66 ug/L		04/02/15 16:15	04/07/15 13:48	1
Hexachlorobutadiene	ND		10	3.3 ug/L		04/02/15 16:15	04/07/15 13:48	1
Hexachlorocyclopentadiene	ND		50	10 ug/L		04/02/15 16:15	04/07/15 13:48	1
Hexachloroethane	ND		10	2.1 ug/L		04/02/15 16:15	04/07/15 13:48	1

TestAmerica Denver

QC Sample Results

Client: Colorado Oil&Gas Conservation Commision
Project/Site: COGCC - Maxwell Water Well Sampling

TestAmerica Job ID: 280-67246-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-270927/1-A

Matrix: Water

Analysis Batch: 271431

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 270927

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		4.0	0.65 ug/L		04/02/15 16:15	04/07/15 13:48	1
Naphthalene	ND		4.0	0.29 ug/L		04/02/15 16:15	04/07/15 13:48	1
Nitrobenzene	ND		10	0.81 ug/L		04/02/15 16:15	04/07/15 13:48	1
N-Nitrosodi-n-propylamine	ND		10	0.35 ug/L		04/02/15 16:15	04/07/15 13:48	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10	0.44 ug/L		04/02/15 16:15	04/07/15 13:48	1
Pentachlorophenol	ND		50	20 ug/L		04/02/15 16:15	04/07/15 13:48	1
Phenanthrene	ND		4.0	0.26 ug/L		04/02/15 16:15	04/07/15 13:48	1
Phenol	ND		10	2.0 ug/L		04/02/15 16:15	04/07/15 13:48	1
Pyrene	ND		10	0.37 ug/L		04/02/15 16:15	04/07/15 13:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	67		48 - 135	04/02/15 16:15	04/07/15 13:48	1
2-Fluorobiphenyl	73		48 - 135	04/02/15 16:15	04/07/15 13:48	1
2-Fluorophenol	78		41 - 135	04/02/15 16:15	04/07/15 13:48	1
Nitrobenzene-d5	83		42 - 135	04/02/15 16:15	04/07/15 13:48	1
Phenol-d5	81		46 - 135	04/02/15 16:15	04/07/15 13:48	1
Terphenyl-d14	77		20 - 135	04/02/15 16:15	04/07/15 13:48	1

Lab Sample ID: LCS 280-270927/2-A

Matrix: Water

Analysis Batch: 271431

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 270927

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	80.0	58.3		ug/L		73	44 - 135
1,4-Dichlorobenzene	80.2	56.6		ug/L		71	40 - 135
2,4,5-Trichlorophenol	80.0	63.7		ug/L		80	64 - 135
2,4,6-Trichlorophenol	80.1	62.7		ug/L		78	62 - 135
2,4-Dinitrotoluene	80.1	65.9		ug/L		82	65 - 135
2-Chlorophenol	80.0	61.4		ug/L		77	58 - 135
2-Methylnaphthalene	79.9	60.9		ug/L		76	56 - 135
2-Methylphenol	80.1	61.4		ug/L		77	62 - 135
4-Chloro-3-methylphenol	80.1	64.3		ug/L		80	65 - 135
4-Nitrophenol	160	128		ug/L		80	56 - 135
Acenaphthene	80.1	61.1		ug/L		76	61 - 135
Anthracene	80.0	63.2		ug/L		79	65 - 135
Carbazole	80.0	63.1		ug/L		79	65 - 135
N-Nitrosodi-n-propylamine	80.2	62.2		ug/L		78	65 - 135
Pentachlorophenol	160	110		ug/L		69	52 - 135
Phenol	80.3	60.8		ug/L		76	61 - 135
Pyrene	80.0	65.1		ug/L		81	65 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	84		48 - 135
2-Fluorobiphenyl	76		48 - 135
2-Fluorophenol	75		41 - 135
Nitrobenzene-d5	82		42 - 135
Phenol-d5	77		46 - 135

TestAmerica Denver

QC Sample Results

Client: Colorado Oil&Gas Conservation Commission
Project/Site: COGCC - Maxwell Water Well Sampling

TestAmerica Job ID: 280-67246-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-270927/2-A

Matrix: Water

Analysis Batch: 271431

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 270927

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Terphenyl-d14	76		20 - 135

Lab Sample ID: LCSD 280-270927/3-A

Matrix: Water

Analysis Batch: 271431

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 270927

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	80.0	57.3		ug/L		72	44 - 135	2	42
1,4-Dichlorobenzene	80.2	57.0		ug/L		71	40 - 135	1	50
2,4,5-Trichlorophenol	80.0	62.9		ug/L		79	64 - 135	1	30
2,4,6-Trichlorophenol	80.1	63.0		ug/L		79	62 - 135	0	30
2,4-Dinitrotoluene	80.1	67.4		ug/L		84	65 - 135	2	32
2-Chlorophenol	80.0	62.2		ug/L		78	58 - 135	1	46
2-Methylnaphthalene	79.9	59.8		ug/L		75	56 - 135	2	32
2-Methylphenol	80.1	61.8		ug/L		77	62 - 135	1	40
4-Chloro-3-methylphenol	80.1	62.5		ug/L		78	65 - 135	3	30
4-Nitrophenol	160	133		ug/L		83	56 - 135	3	50
Acenaphthene	80.1	61.6		ug/L		77	61 - 135	1	30
Anthracene	80.0	64.4		ug/L		80	65 - 135	2	30
Carbazole	80.0	64.5		ug/L		81	65 - 135	2	30
N-Nitrosodi-n-propylamine	80.2	63.6		ug/L		79	65 - 135	2	30
Pentachlorophenol	160	114		ug/L		71	52 - 135	4	30
Phenol	80.3	62.4		ug/L		78	61 - 135	3	37
Pyrene	80.0	66.6		ug/L		83	65 - 135	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol	82		48 - 135
2-Fluorobiphenyl	76		48 - 135
2-Fluorophenol	75		41 - 135
Nitrobenzene-d5	80		42 - 135
Phenol-d5	77		46 - 135
Terphenyl-d14	76		20 - 135

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 280-272176/5

Matrix: Water

Analysis Batch: 272176

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		5.0	0.22 ug/L			04/10/15 15:45	1

Lab Sample ID: LCS 280-272176/3

Matrix: Water

Analysis Batch: 272176

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	146	152		ug/L		104	75 - 125

TestAmerica Denver

QC Sample Results

Client: Colorado Oil&Gas Conservation Commision
Project/Site: COGCC - Maxwell Water Well Sampling

TestAmerica Job ID: 280-67246-1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCSD 280-272176/4

Matrix: Water

Analysis Batch: 272176

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane	146	143		ug/L		98	75 - 125	7	20

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 280-270916/1-A

Matrix: Water

Analysis Batch: 271268

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 270916

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	4.4 ug/L		04/03/15 08:00	04/03/15 18:48	1
Barium	ND		10	0.58 ug/L		04/03/15 08:00	04/03/15 18:48	1
Boron	ND		100	4.4 ug/L		04/03/15 08:00	04/03/15 18:48	1
Calcium	ND		200	35 ug/L		04/03/15 08:00	04/03/15 18:48	1
Iron	ND		100	22 ug/L		04/03/15 08:00	04/03/15 18:48	1
Magnesium	ND		200	11 ug/L		04/03/15 08:00	04/03/15 18:48	1
Manganese	ND		10	0.25 ug/L		04/03/15 08:00	04/03/15 18:48	1
Potassium	ND		3000	240 ug/L		04/03/15 08:00	04/03/15 18:48	1
Sodium	ND		1000	92 ug/L		04/03/15 08:00	04/03/15 18:48	1
Strontium	ND		10	0.30 ug/L		04/03/15 08:00	04/03/15 18:48	1

Lab Sample ID: LCS 280-270916/2-A

Matrix: Water

Analysis Batch: 271268

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 270916

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1000	991		ug/L		99	88 - 110
Barium	2000	2010		ug/L		101	90 - 112
Boron	1000	1030		ug/L		103	86 - 110
Calcium	50000	47800		ug/L		96	90 - 111
Iron	1000	984		ug/L		98	89 - 115
Magnesium	50000	49900		ug/L		100	90 - 113
Manganese	500	501		ug/L		100	90 - 110
Potassium	50000	50900		ug/L		102	89 - 114
Sodium	50000	53900		ug/L		108	90 - 115
Strontium	1000	1000		ug/L		100	90 - 111

Lab Sample ID: 280-67246-1 MS

Matrix: Water

Analysis Batch: 271268

Client Sample ID: MAXWELL 9119007

Prep Type: Total/NA

Prep Batch: 270916

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		1000	1020		ug/L		102	84 - 124
Barium	18		2000	2070		ug/L		103	85 - 120
Boron	33	J	1000	1100		ug/L		106	87 - 113
Calcium	83000		50000	131000		ug/L		96	48 - 153
Iron	22	J	1000	1030		ug/L		103	52 - 155
Magnesium	33000		50000	83700		ug/L		102	62 - 146
Manganese	620		500	1120		ug/L		102	79 - 121

TestAmerica Denver

QC Sample Results

Client: Colorado Oil&Gas Conservation Commision
Project/Site: COGCC - Maxwell Water Well Sampling

TestAmerica Job ID: 280-67246-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 280-67246-1 MS

Matrix: Water

Analysis Batch: 271268

Client Sample ID: MAXWELL 9119007

Prep Type: Total/NA

Prep Batch: 270916

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	2700	J	50000	54800		ug/L		104	76 - 132
Sodium	12000		50000	65800		ug/L		108	70 - 203
Strontium	1100		1000	2160		ug/L		103	81 - 125

Lab Sample ID: 280-67246-1 MSD

Matrix: Water

Analysis Batch: 271268

Client Sample ID: MAXWELL 9119007

Prep Type: Total/NA

Prep Batch: 270916

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	ND		1000	1010		ug/L		101	84 - 124	1	20
Barium	18		2000	2050		ug/L		101	85 - 120	1	20
Boron	33	J	1000	1080		ug/L		105	87 - 113	1	20
Calcium	83000		50000	130000		ug/L		94	48 - 153	1	20
Iron	22	J	1000	1030		ug/L		103	52 - 155	0	20
Magnesium	33000		50000	83000		ug/L		101	62 - 146	1	20
Manganese	620		500	1120		ug/L		100	79 - 121	1	20
Potassium	2700	J	50000	54500		ug/L		104	76 - 132	0	20
Sodium	12000		50000	65700		ug/L		108	70 - 203	0	20
Strontium	1100		1000	2140		ug/L		101	81 - 125	1	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 280-270915/1-A

Matrix: Water

Analysis Batch: 271295

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 270915

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	0.70 ug/L		04/02/15 15:23	04/04/15 04:25	1

Lab Sample ID: LCS 280-270915/2-A

Matrix: Water

Analysis Batch: 271295

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 270915

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	40.0	40.2		ug/L		100	77 - 122

Lab Sample ID: 280-67246-1 MS

Matrix: Water

Analysis Batch: 271295

Client Sample ID: MAXWELL 9119007

Prep Type: Total/NA

Prep Batch: 270915

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	1.6	J	40.0	42.5		ug/L		102	77 - 122

Lab Sample ID: 280-67246-1 MSD

Matrix: Water

Analysis Batch: 271295

Client Sample ID: MAXWELL 9119007

Prep Type: Total/NA

Prep Batch: 270915

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Selenium	1.6	J	40.0	41.7		ug/L		100	77 - 122	2	20

TestAmerica Denver

QC Sample Results

Client: Colorado Oil&Gas Conservation Commision
Project/Site: COGCC - Maxwell Water Well Sampling

TestAmerica Job ID: 280-67246-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-270887/13

Matrix: Water

Analysis Batch: 270887

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.042 mg/L			04/02/15 18:21	1
Nitrite as N	ND		0.50	0.049 mg/L			04/02/15 18:21	1
Orthophosphate as P	ND		0.50	0.19 mg/L			04/02/15 18:21	1

Lab Sample ID: MB 280-270887/37

Matrix: Water

Analysis Batch: 270887

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.042 mg/L			04/03/15 02:19	1
Nitrite as N	ND		0.50	0.049 mg/L			04/03/15 02:19	1
Orthophosphate as P	ND		0.50	0.19 mg/L			04/03/15 02:19	1

Lab Sample ID: LCS 280-270887/11

Matrix: Water

Analysis Batch: 270887

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	5.00	4.86		mg/L		97	90 - 110
Nitrite as N	5.00	4.83		mg/L		97	90 - 110
Orthophosphate as P	5.00	4.94		mg/L		99	90 - 110

Lab Sample ID: LCS 280-270887/36

Matrix: Water

Analysis Batch: 270887

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	5.00	4.86		mg/L		97	90 - 110
Nitrite as N	5.00	4.85		mg/L		97	90 - 110
Orthophosphate as P	5.00	4.92		mg/L		98	90 - 110

Lab Sample ID: LCSD 280-270887/12

Matrix: Water

Analysis Batch: 270887

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	5.00	4.86		mg/L		97	90 - 110	0	10
Nitrite as N	5.00	4.86		mg/L		97	90 - 110	1	10
Orthophosphate as P	5.00	4.92		mg/L		98	90 - 110	1	10

Lab Sample ID: MRL 280-270887/10

Matrix: Water

Analysis Batch: 270887

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.200	0.220	J	mg/L		110	50 - 150
Nitrite as N	0.200	0.208	J	mg/L		104	50 - 150
Orthophosphate as P	0.200	0.220	J	mg/L		110	50 - 150

TestAmerica Denver

QC Sample Results

Client: Colorado Oil&Gas Conservation Commision
Project/Site: COGCC - Maxwell Water Well Sampling

TestAmerica Job ID: 280-67246-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 280-67246-1 MS

Matrix: Water

Analysis Batch: 270887

Client Sample ID: MAXWELL 9119007

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.50		5.00	5.44		mg/L		99	80 - 120
Nitrite as N	ND		5.00	4.94		mg/L		99	80 - 120
Orthophosphate as P	ND	F1 F2	5.00	39.0	E F1	mg/L		781	80 - 120

Lab Sample ID: 280-67246-1 MSD

Matrix: Water

Analysis Batch: 270887

Client Sample ID: MAXWELL 9119007

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.50		5.00	5.43		mg/L		99	80 - 120	0	20
Nitrite as N	ND		5.00	5.05		mg/L		101	80 - 120	2	20
Orthophosphate as P	ND	F1 F2	5.00	58.3	E F1 F2	mg/L		1167	80 - 120	40	20

Lab Sample ID: 280-67246-1 DU

Matrix: Water

Analysis Batch: 270887

Client Sample ID: MAXWELL 9119007

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	0.50		0.508		mg/L		0.9	15
Nitrite as N	ND		ND		mg/L		NC	15
Orthophosphate as P	ND	F1 F2	ND		mg/L		NC	15

Lab Sample ID: MB 280-270888/13

Matrix: Water

Analysis Batch: 270888

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20	0.11 mg/L			04/02/15 18:21	1
Chloride	0.686	J	3.0	0.25 mg/L			04/02/15 18:21	1
Fluoride	ND		0.50	0.060 mg/L			04/02/15 18:21	1
Sulfate	ND		5.0	0.23 mg/L			04/02/15 18:21	1

Lab Sample ID: MB 280-270888/37

Matrix: Water

Analysis Batch: 270888

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20	0.11 mg/L			04/03/15 02:19	1
Chloride	0.719	J	3.0	0.25 mg/L			04/03/15 02:19	1
Fluoride	ND		0.50	0.060 mg/L			04/03/15 02:19	1
Sulfate	ND		5.0	0.23 mg/L			04/03/15 02:19	1

Lab Sample ID: LCS 280-270888/11

Matrix: Water

Analysis Batch: 270888

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	5.00	5.02		mg/L		100	90 - 110
Chloride	100	100		mg/L		100	90 - 110

TestAmerica Denver

QC Sample Results

Client: Colorado Oil&Gas Conservation Commision
Project/Site: COGCC - Maxwell Water Well Sampling

TestAmerica Job ID: 280-67246-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 280-270888/11

Matrix: Water

Analysis Batch: 270888

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	5.00	4.97		mg/L		99	90 - 110
Sulfate	100	97.3		mg/L		97	90 - 110

Lab Sample ID: LCS 280-270888/36

Matrix: Water

Analysis Batch: 270888

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	5.00	5.00		mg/L		100	90 - 110
Chloride	100	100		mg/L		100	90 - 110
Fluoride	5.00	4.88		mg/L		98	90 - 110
Sulfate	100	97.4		mg/L		97	90 - 110

Lab Sample ID: LCSD 280-270888/12

Matrix: Water

Analysis Batch: 270888

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromide	5.00	5.00		mg/L		100	90 - 110	0	10
Chloride	100	99.9		mg/L		100	90 - 110	0	10
Fluoride	5.00	4.94		mg/L		99	90 - 110	1	10
Sulfate	100	96.9		mg/L		97	90 - 110	0	10

Lab Sample ID: MRL 280-270888/10

Matrix: Water

Analysis Batch: 270888

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	0.200	0.207		mg/L		104	50 - 150
Chloride	2.50	2.34	J	mg/L		94	50 - 150
Fluoride	0.200	0.224	J	mg/L		112	50 - 150
Sulfate	2.50	2.40	J	mg/L		96	50 - 150

Lab Sample ID: 280-67246-1 MS

Matrix: Water

Analysis Batch: 270888

Client Sample ID: MAXWELL 9119007

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	ND		5.00	5.15		mg/L		103	80 - 120
Chloride	8.3	B	25.0	33.0		mg/L		99	80 - 120
Fluoride	0.59	F1	5.00	7.00	F1	mg/L		128	80 - 120
Sulfate	170		25.0	198	4	mg/L		113	80 - 120

Lab Sample ID: 280-67246-1 MSD

Matrix: Water

Analysis Batch: 270888

Client Sample ID: MAXWELL 9119007

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromide	ND		5.00	5.15		mg/L		103	80 - 120	0	20

TestAmerica Denver

QC Sample Results

Client: Colorado Oil&Gas Conservation Commision
Project/Site: COGCC - Maxwell Water Well Sampling

TestAmerica Job ID: 280-67246-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 280-67246-1 MSD

Matrix: Water

Analysis Batch: 270888

Client Sample ID: MAXWELL 9119007

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8.3	B	25.0	33.1		mg/L		99	80 - 120	0	20
Fluoride	0.59	F1	5.00	7.45	F1	mg/L		137	80 - 120	6	20
Sulfate	170		25.0	196	4	mg/L		105	80 - 120	1	20

Lab Sample ID: 280-67246-1 DU

Matrix: Water

Analysis Batch: 270888

Client Sample ID: MAXWELL 9119007

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bromide	ND		ND		mg/L		NC	15
Chloride	8.3	B	8.25		mg/L		0	15
Fluoride	0.59	F1	0.587		mg/L		0.4	15
Sulfate	170		170		mg/L		0	15

Method: SM 1030F - Cation Anion Balance

Lab Sample ID: MB 280-271684/1

Matrix: Water

Analysis Batch: 271684

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Anions	0.000			mg/L			04/08/15 13:18	1
Total Cations	0.000			mg/L			04/08/15 13:18	1
Percent Difference	0.000			%			04/08/15 13:18	1
Anion/Cation Balance	0.000			%			04/08/15 13:18	1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-271581/31

Matrix: Water

Analysis Batch: 271581

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		5.0	1.1 mg/L			04/07/15 13:56	1
Bicarbonate Alkalinity as CaCO3	ND		5.0	1.1 mg/L			04/07/15 13:56	1
Carbonate Alkalinity as CaCO3	ND		5.0	1.1 mg/L			04/07/15 13:56	1
Hydroxide Alkalinity	ND		5.0	1.1 mg/L			04/07/15 13:56	1

Lab Sample ID: LCS 280-271581/30

Matrix: Water

Analysis Batch: 271581

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity	200	197		mg/L		98	90 - 110

TestAmerica Denver

QC Sample Results

Client: Colorado Oil&Gas Conservation Commission
Project/Site: COGCC - Maxwell Water Well Sampling

TestAmerica Job ID: 280-67246-1

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 280-270902/4

Matrix: Water

Analysis Batch: 270902

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		2.0	2.0 umhos/cm			04/02/15 15:01	1

Lab Sample ID: LCS 280-270902/3

Matrix: Water

Analysis Batch: 270902

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Specific Conductance	1410	1280		umhos/cm		91	90 - 110

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-270903/1

Matrix: Water

Analysis Batch: 270903

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	4.7 mg/L			04/02/15 15:06	1

Lab Sample ID: LCS 280-270903/2

Matrix: Water

Analysis Batch: 270903

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	501	485		mg/L		97	86 - 110

Lab Sample ID: LCSD 280-270903/3

Matrix: Water

Analysis Batch: 270903

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids	501	487		mg/L		97	86 - 110	0	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-271014/4

Matrix: Water

Analysis Batch: 271014

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.000		SU		100	99 - 101

TestAmerica Denver

Lab Chronicle

Client: Colorado Oil&Gas Conservation Commision
Project/Site: COGCC - Maxwell Water Well Sampling

TestAmerica Job ID: 280-67246-1

Client Sample ID: MAXWELL 9119007

Date Collected: 04/01/15 12:33

Date Received: 04/01/15 18:05

Lab Sample ID: 280-67246-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	270995	04/03/15 13:41	TAW	TAL DEN
Total/NA	Prep	3520C			799.7 mL	1 mL	270927	04/02/15 16:15	GLK	TAL DEN
Total/NA	Analysis	8270C		1	799.7 mL	1 mL	271431	04/07/15 20:45	DCK	TAL DEN
Total/NA	Analysis	RSK-175		1	18 mL	18 mL	272176	04/10/15 16:37	CDC	TAL DEN
Total/NA	Prep	3010A			50 mL	50 mL	270916	04/03/15 08:00	CGG	TAL DEN
Total/NA	Analysis	6010B		1	50 mL	50 mL	271268	04/03/15 18:53	CRR	TAL DEN
Total/NA	Prep	3020A			50 mL	50 mL	270915	04/02/15 15:23	CGG	TAL DEN
Total/NA	Analysis	6020		1	50 mL	50 mL	271295	04/04/15 04:32	JM	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	270887	04/02/15 20:00	TLP	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	270888	04/02/15 20:00	TLP	TAL DEN
Total/NA	Analysis	SM 1030F		1			271684	04/08/15 13:18	AJA	TAL DEN
Total/NA	Analysis	SM 2320B		1			271581	04/07/15 15:43	CCJ	TAL DEN
Total/NA	Analysis	SM 2510B		1		25 mL	270902	04/02/15 15:01	MRB	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	270903	04/02/15 15:06	SVC	TAL DEN
Total/NA	Analysis	SM 4500 H+ B		1			271014	04/02/15 23:23	NAS	TAL DEN

Client Sample ID: TRIP BLANK

Date Collected: 04/01/15 12:33

Date Received: 04/01/15 18:05

Lab Sample ID: 280-67246-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	270995	04/03/15 09:55	TAW	TAL DEN

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Login Sample Receipt Checklist

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-67246-1

Login Number: 67246

List Source: TestAmerica Denver

List Number: 1

Creator: Soto, Mayra A

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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?	False	Not requested on COC.
There are no discrepancies between the containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Denver

4955 Yarrow Street

Arvada, CO 80002

Tel: (303)736-0100

TestAmerica Job ID: 280-67246-2

Client Project/Site: COGCC - Maxwell Water Well Sampling

For:

Colorado Oil&Gas Conservation Commision

1120 Lincoln St.

Suite 801

Denver, Colorado 80203

Attn: Kris Neidel



Authorized for release by:

5/5/2015 2:15:59 PM

Donna Rydberg, Senior Project Manager

(303)736-0192

donna.rydberg@testamericainc.com

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Sample Summary	4
Subcontract Data	5
Receipt Checklists	10
Chain of Custody	11

Case Narrative

Client: Colorado Oil&Gas Conservation Commission
Project/Site: COGCC - Maxwell Water Well Sampling

TestAmerica Job ID: 280-67246-2

Job ID: 280-67246-2

Laboratory: TestAmerica Denver

Narrative

Client: Colorado Oil&Gas Conservation Commission

Project: COGCC - Maxwell Water Well Sampling

Report Number: 280-67246-2

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 4/1/2015 at 6:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.9°C.

This report contains the samples for IRB/SRB and SFB that were subbed to EMLab P&K for analysis at 1150 Bayhill Drive #100, San Bruno CA 94066. All other tests listed on the COC were logged and reported under job 280-67246-1.

The report from EMLab P&K was received at TestAmerica Denver on May 5, 2015.

Sample Summary

Client: Colorado Oil&Gas Conservation Commision
Project/Site: COGCC - Maxwell Water Well Sampling

TestAmerica Job ID: 280-67246-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-67246-1	MAXWELL 9119007	Water	04/01/15 12:33	04/01/15 18:05



Report for:

Donna Rydberg
TestAmerica-Denver
4955 Yarrow Street
Arvada, CO 80002

Regarding: Project: 280-67246-1
EML ID: 1347180

Approved by:

Technical Manager
Magzoub Ismail

Dates of Analysis:
MPN-Sulfate reducing bacteria: 04-30-2015

Service SOPs: MPN-Sulfate reducing bacteria (EM-BT-S-1051)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

EMLab P&K
6310 Rothway St., Houston, TX 77040
(800) 651-4802 Fax (623) 780-7695 www.emlab.com
Date of Sampling: 04-01-2015
Date of Receipt: 04-03-2015
Date of Report: 05-04-2015

Client: TestAmerica-Denver
C/O: Donna Rydberg
Re: 280-67246-1

MPN REPORT

Location: Maxwell 9119007 (280-67246-1)

Lab ID-Version‡: 6168112-1

Sample size: 100		Unit: 100 ml		Percent solid: N/A	
Bacteria	Method	Setup Time	MPN*/Unit	LCL**	UCL**
Sulfate-reducing Bacteria	SM 9240 D	04/08/15 17:00	< 3	-	21

Comments:

*MPN - Most Probable Number.

MPN methods:

SM - Standard Methods for the Examination of Waters and Wastewaters, 20th ed. 1998.

FDA BAM - U.S. Food and Drug Administration Bacteriological Analytical Manual, January 2001.

MPN values are calculated using the method of Thomas (1942).

The MPN method was developed to handle samples with a high load of particulate matter, such as turbid waters, soils, wastewaters and sludges. MPN values are statistically derived calculations of viable bacterial density based on the assumptions of random distribution of single, non-clustered, bacteria not attached to particulate matter within a sample. Due to the fact that bacteria can cluster and adhere to materials, values determined by the MPN method should be considered estimates in many instances.

**The Upper 95% Confidence Limit (UCL) and Lower 95% Confidence Limit (LCL) are calculated using the method of deMan (1983) and represent that "before the tubes are inoculated, the chance is at least 95 percent that the confidence interval associated with the eventual result will enclose the actual concentration" (FDA BAM).

Interpretation is left to the company and/or persons who conducted the field work.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

EMLab P&K
6310 Rothway St., Houston, TX 77040
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Denver
C/O: Donna Rydberg
Re: 280-67246-1

Date of Sampling: 04-01-2015
Date of Receipt: 04-03-2015
Date of Report: 04-08-2015

Iron Bacteria Presence/Absence Report

Location:	Maxwell 9119007 (280-67246-1)
Comments (see below)	A
Lab ID-Version‡:	6168090-1
Sample Type	Water
Iron Bacteria	Absent

Comments: A) Iron bacteria method: SM chapter 9240B., 20th edition.

Interpretation is left to the company and/or persons who conducted the field work.

‡A "Version" greater than 1 indicates amended data.

EMLab P&K
6310 Rothway St., Houston, TX 77040
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Denver
C/O: Donna Rydberg
Re: 280-67246-1

Date of Sampling: 04-01-2015
Date of Receipt: 04-03-2015
Date of Report: 04-17-2015

Slime Forming Bacteria Presence/Absence Report

Location:	Maxwell 9119007 (280-67246-1)
Comments (see below)	None
Lab ID-Version‡:	6168091-1
Sample Type	Water
Slime Forming Bacteria	Absent

Comments:

Interpretation is left to the company and/or persons who conducted the field work.

‡A "Version" greater than 1 indicates amended data.

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 738-0100 Fax (303) 431-7171

Chain of Custody Record

0.3 C with red.

TestA

001347180

[illegible]

Login Sample Receipt Checklist

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-67246-2

Login Number: 67246

List Source: TestAmerica Denver

List Number: 1

Creator: Soto, Mayra A

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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?	False	Not requested on COC.
There are no discrepancies between the containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St.
Denver, Colorado 80203

RECEIVED

AUG 20 1981

WATER RESOURCES
STATE ENGINEERTYPE OR
PRINT IN BLACK INK
COPY OF ACCEPTED
STATEMENT MAILED
ON REQUEST.

STATE OF COLORADO

COUNTY OF Jackson

SS.

AFFIDAVIT

☒ STATEMENT OF BENEFICIAL USE OF GROUND WATER
☒ AMENDMENT OF EXISTING RECORD Name Change
☐ LATE REGISTRATIONPERMIT NUMBER 105771

LOCATION OF WELL

THE AFFIANT(S) Max R. and Jean E. Maxwell County Jackson
whose mailing address is Box 794 SW 1/4 of the SE 1/4, Section 23
City Walden, Colorado 80480 Twp. 6 N, Rng. 81 W, 6th P.M.
(STATE) (ZIP) (N OR S) (E OR W)being duly sworn upon oath, deposes and says that he (they) is (are) the owner(s) of the well described hereon; the well is located as described above, at distances of 1300 feet from the South section line and 3040 feet from the West section line; water from this well was first applied to a beneficial use for the purpose(s) described herein on the 5th day of November, 19 79; the maximum sustained pumping rate of the well is 15 gallons per minute, the pumping rate claimed hereby is 15 gallons per minute; the total depth of the well is 102 feet; the average annual amount of water to be diverted is 1.5 acre-feet; for which claim is hereby made for Domestic and Livestock purpose(s); the legal description of the land on which the water from this well is used is SW 1/4 of the SE 1/4, Sect. 23, T6N, R81W of which 1/6 acres are irrigated and which is illustrated on the map on the reverse side of this form; that this well was completed in compliance with the permit approved therefor; this statement of beneficial use of ground water is filed in compliance with law; he (they) has (have) read the statements made hereon; knows the content thereof; and that the same are true of his (their) knowledge.

(COMPLETE REVERSE SIDE OF THIS FORM)

Signature(s) Jean E. Maxwell
Subscribed and sworn to before me on this 19 day of August, 19 81
My Commission expires: Jan 22, 1985
(SEAL)Karen P. McPherson
NOTARY PUBLICACCEPTED FOR FILING BY THE STATE ENGINEER OF COLORADO
PURSUANT TO THE FOLLOWING CONDITIONS:

ACCEPTED

Assistant

STATE ENGINEER

OCT 21 1981

DATE

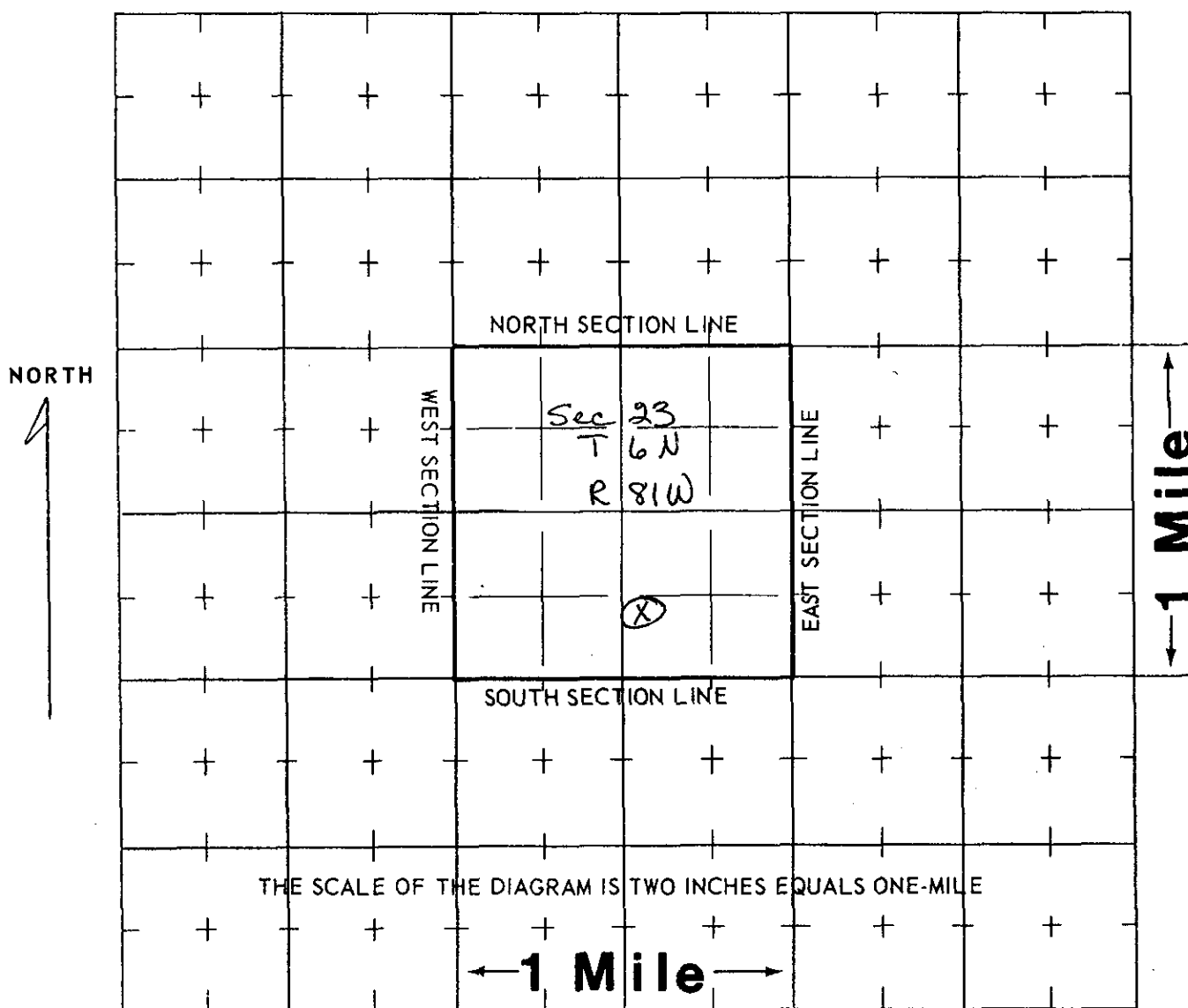
FOR OFFICE USE ONLY

Court Case No. 181656
Prior. _____ Mo. _____ Day _____ Yr. _____
Div. 6 Cty. 29
Sec. _____ 1/4 _____ 1/4 _____ 1/4 _____
Well Use 3
Dist. 47 Basin _____ Mon. Dis. _____

Well drilled by Crabtree Well Drilling Lic. No. 1029
 Permanent Pump installed by Self-installed Lic. No.
 Meter Serial No. ☐ Flow Meter Date Installed
 Owner of land on which water is being used Max R. and Jean E. Maxwell

THE LOCATION OF THE WELL MUST BE SHOWN AND FOR LARGE CAPACITY IRRIGATION WELLS THE AREA ON WHICH THE WATER IS USED MUST BE SHADED OR CROSS-HATCHED ON THE DIAGRAM BELOW.

This diagram represents nine (9) sections. Use the **CENTER SQUARE** (one section) to indicate the location of the well, if possible.



WATER EQUIVALENTS TABLE (Rounded Figures)

An acre-foot covers 1 acre of land 1 foot deep.
 1 cubic foot per second (cfs) . . . 449 gallons per minute (gpm).
 1 acre-foot . . . 43,560 cubic feet . . . 325,900 gallons.
 1,000 gpm pumped continuously for one day produces 4.42 acre-feet.
 100 gpm pumped continuously for one year produces 160 acre-feet.

(WHITE AND PINK COPY TO BE FILED WITH THE STATE ENGINEER
 PINK COPY WILL BE RETURNED TO OWNER)

COLORADO DIVISION OF WATER RESOURCES

1313 Sherman Street - Room 818
Denver, Colorado 80203

RECEIVED

JUN 15 1979

WATER RESOURCES
STATE ENGINEER
COLO.THIS FORM MUST BE SUBMITTED
WITHIN 60 DAYS OF COMPLETION
OF THE WORK DESCRIBED HERE-
ON. TYPE OR PRINT IN BLACK
INK.

WELL COMPLETION AND PUMP INSTALLATION REPORT

PERMIT NUMBER 105771

WELL OWNER Arapahoe Livestock Co SW ¼ of the SE ¼ of Sec. 23
 ADDRESS Box 367 Walden Colo T. 6 N, R. 81 W, 6 P.M.
 DATE COMPLETED 5-30, 1979

HOLE DIAMETER

8 in. from 0 to 20 ft.6 in. from 20 to 102 ft.

_____ in. from _____ to _____ ft.

DRILLING METHOD Air Rotary

CASING RECORD: Plain Casing

Size 6 3/4 & kind steel from 11 to 20 ft.Size 4" & kind plastic from 10 to 80 ft.

Size _____ & kind _____ from _____ to _____ ft.

Perforated Casing

Size 4" & kind plastic from 80 to 102 ft.

Size _____ & kind _____ from _____ to _____ ft.

Size _____ & kind _____ from _____ to _____ ft.

GROUTING RECORD

Material CementIntervals to 20'Placement Method Hand

GRAVEL PACK: Size _____

Interval _____

TEST DATA

Date Tested 5-30, 1979Static Water Level Prior to Test 70 ft.Type of Test Pump BlowLength of Test 1 hrSustained Yield (Metered) 30 gpmFinal Pumping Water Level 102

WELL LOG

From	To	Type and Color of Material	Water Loc.
0	2	Top Soil	
2	60	Shale Dark	
60	80	shale Brown	
80	102	Sandstone Gray-Brown	80 ↓ 102
TOTAL DEPTH <u>102</u>			

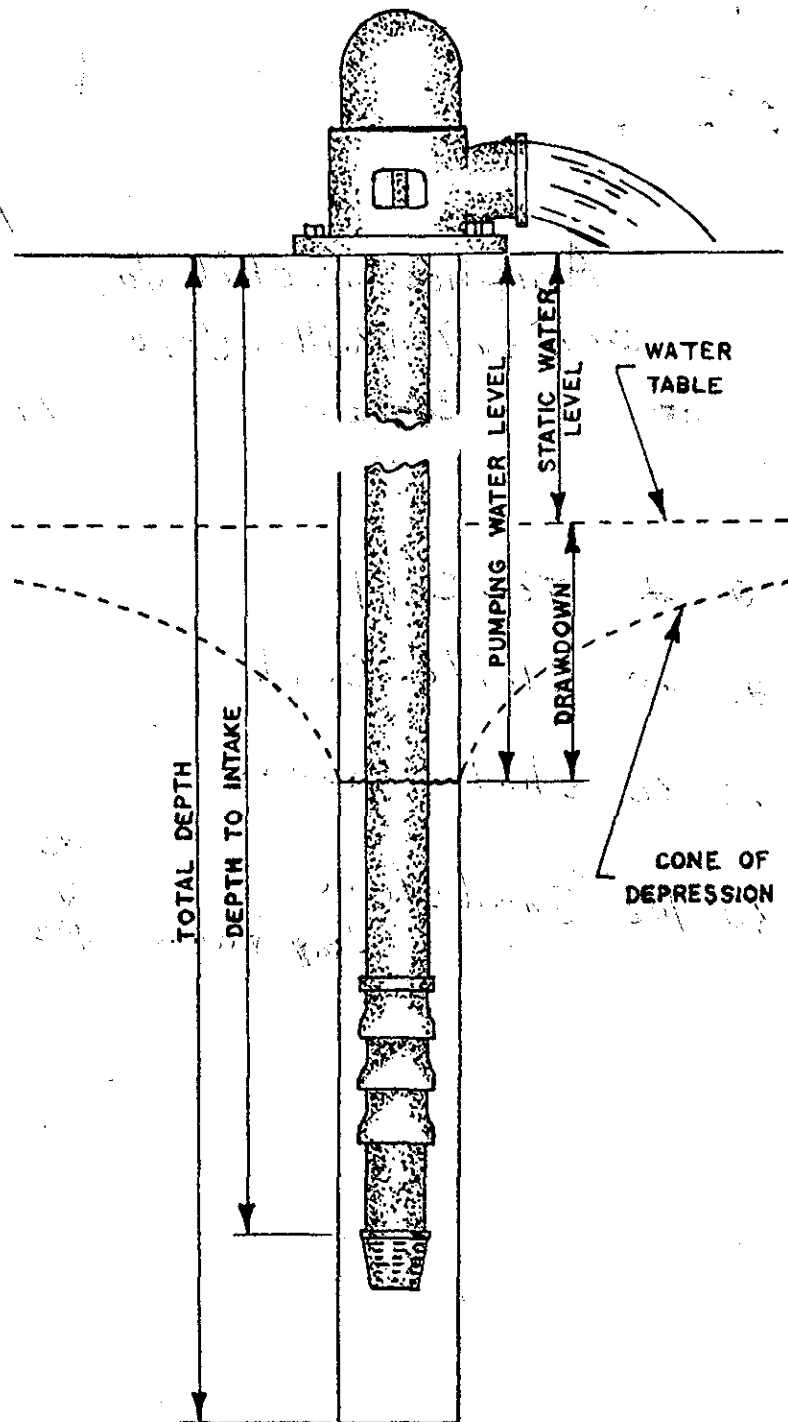
Use additional pages necessary to complete log.

PUMP INSTALLATION REPORT

Pump Make _____
 Type _____
 Powered by _____ HP _____
 Pump Serial No. _____
 Motor Serial No. _____
 Date Installed _____
 Pump Intake Depth _____
 Remarks _____

WELL TEST DATA WITH PERMANENT PUMP

Date Tested _____
 Static Water Level Prior to Test _____
 Length of Test _____ Hours
 Sustained yield (Metered) _____ GPM
 Pumping Water Level _____
 Remarks _____



CONTRACTORS STATEMENT

The undersigned, being duly sworn upon oath, deposes and says that he is the contractor of the well or pump installation described hereon; that he has read the statement made hereon; knows the content thereof, and that the same is true of his own knowledge.

Signature Mark Kultra License No. 1029

State of Colorado, County of Larimer SS

Subscribed and sworn to before me this 14th day of June, 1979.

My Commission expires: Jan 7, 1981.

Notary Public Ruth E. Evans

FORM TO BE MADE OUT IN QUADRUPLICATE: WHITE FORM must be an original copy on both sides and signed. WHITE AND GREEN copies must be filed with the State Engineer. PINK COPY is for the Owner and YELLOW COPY is for the Driller.

COLORADO DIVISION OF WATER RESOURCES
300 Columbine Bldg., 1845 Sherman St., Denver, Colorado 80203

RECEIVED
JUN 20 1979

RECEIVED

FEB 26 1979

PERMIT APPLICATION FORM

WATER RESOURCES
STATE ENGINEER
COLD

WATER RESOURCES
STATE ENGINEER
COLD

Application must be complete where applicable. Type or print in **BLACK INK**. No overstrikes or erasures unless initialed.

FOR: ☒ A PERMIT TO USE GROUND WATER
☒ A PERMIT TO CONSTRUCT A WELL
☒ A PERMIT TO INSTALL A PUMP

☒ REPLACEMENT FOR NO sold well at Spicer School Building
☐ OTHER NO NUMBERING
WATER COURT CASE NO. _____

(1) APPLICANT - mailing address

NAME ARAPAHOE Livestock Co
STREET Box 367
CITY WALDEN Colo (State) 80480 (Zip)
TELEPHONE NO. 723-4239

(2) LOCATION OF PROPOSED WELL

County Jackson
SW 1/4 of the SE 1/4, Section 23
Twp. 6 N., Rng. 81 W., 6 P.M.
(N,S) (E,W)

(3) WATER USE AND WELL DATA

Proposed maximum pumping rate (gpm) 15
Average annual amount of ground water to be appropriated (acre-feet): 1.5
Number of acres to be irrigated: 46
Proposed total depth (feet): 280 MAX
Aquifer ground water is to be obtained from:
UNKNOWN
Owner's well designation ARAPAHOE #2

GROUND WATER TO BE USED FOR:

☐ HOUSEHOLD USE ONLY - no irrigation (0)
☒ DOMESTIC (1) ☐ INDUSTRIAL (5)
☒ LIVESTOCK (2) ☐ IRRIGATION (6)
☐ COMMERCIAL (4) ☐ MUNICIPAL (8)
☐ OTHER (9) _____

DETAIL THE USE ON BACK IN (11)

(4) DRILLER

Name UNKNOWN at this time
Street _____
City _____ (State) (Zip)
Telephone No. _____ Lic. No. _____

FOR OFFICE USE ONLY: DO NOT WRITE IN THIS COLUMN

Receipt No. 103205, B

Basin _____ Dist. _____

CONDITIONS OF APPROVAL

This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of the permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.

APPROVED PURSUANT TO CRS 1973, 37-92-602
(3)(b)(II) AS THE ONLY WELL ON A TRACT
OF 35 ACRES OR MORE DESIGNATED AS 40
ACRES IN SW 1/4 SE 1/4, SEC. 23,
T. 6 N., R. 81 W., 6 P.M.

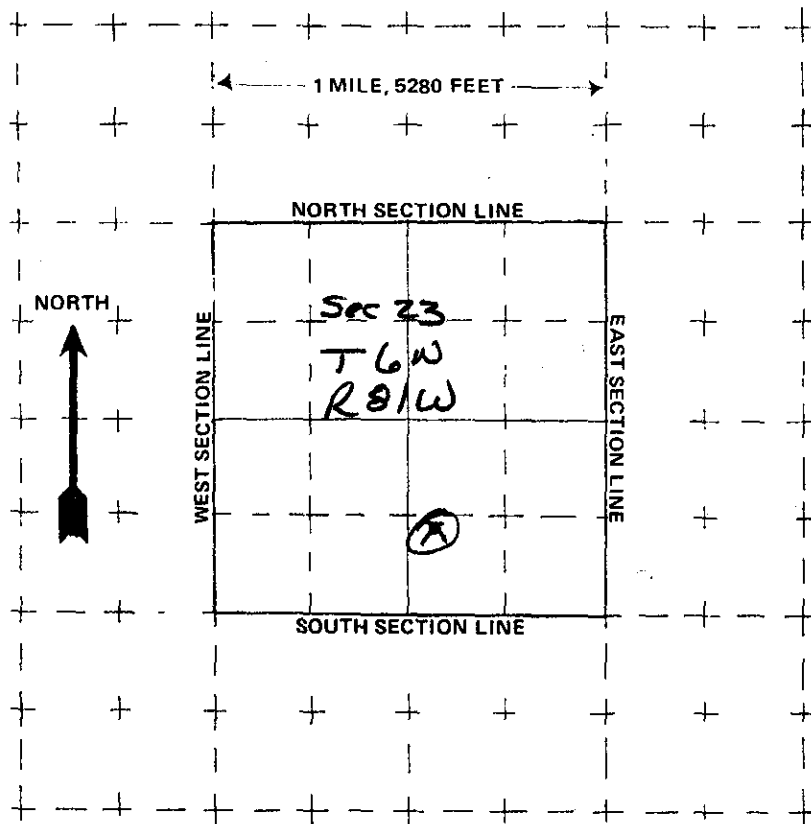
APPROVED FOR DOMESTIC USE, INCLUDING THE
IRRIGATION OF NOT OVER ONE ACRE OF HOME
GARDENS AND LAWNS.

APPROVED PURSUANT TO CRS 1973, 37-92-602
FOR THE WATERING OF LIVESTOCK ON A FARM
OR RANCH.

APPLICATION APPROVED

PERMIT NUMBER 105771
DATE ISSUED APR 23 1979
EXPIRATION DATE APR 23 1981
Bruce E. DeBrone
DEPUTY STATE ENGINEER
BY R. A. Stallman
I.D. 6-47 COUNTY 29

(5) THE LOCATION OF THE PROPOSED WELL and the area on which the water will be used must be indicated on the diagram below. Use the CENTER SECTION (1 section, 640 acres) for the well location.



The scale of the diagram is 2 inches = 1 mile
Each small square represents 40 acres.

WATER EQUIVALENTS TABLE (Rounded Figures)

An acre-foot covers 1 acre of land 1 foot deep
1 cubic foot per second (cfs) . . . 449 gallons per minute (gpm)
A family of 5 will require approximately 1 acre-foot of water per year.
1 acre-foot . . . 43,560 cubic feet . . . 325,900 gallons.
1,000 gpm pumped continuously for one day produces 4.42 acre-feet.

(6) THE WELL MUST BE LOCATED BELOW by distances from section lines.

1300 ft. from South sec. line
3040 (north or south)
2500 ft. from West sec. line
(east or west)

LOT _____ BLOCK _____ FILING # _____

SUBDIVISION _____

(7) TRACT ON WHICH WELL WILL BE LOCATED

Owner: ARAPAHOE Livestock
No. of acres SW 1/4 SE 1/4 40 Will this be
the only well on this tract? Yes

(8) PROPOSED CASING PROGRAM

Plain Casing UNKNOWN at this time

6 in. from 0 ft. to 150 ft.

_____ in. from _____ ft. to _____ ft.

Perforated casing

6 in. from 150 ft. to 280 ft.

_____ in. from _____ ft. to _____ ft.

(9) FOR REPLACEMENT WELLS give distance and direction from old well and plans for plugging it:

There is a well at the old
Spicer School located
approx 600 feet west of the
proposed new well. Old well
is not being used presently

(10) LAND ON WHICH GROUND WATER WILL BE USED:

Owner(s): ARAPAHOE Livestock Co

No. of acres: ~~40~~ 40

Legal description: SW 1/4 SE 1/4 Sec 23 T6 R81

(11) DETAILED DESCRIPTION of the use of ground water: Household use and domestic wells must indicate type of disposal system to be used.

If this well is used for domestic use, there
would be a septic tank system with leach field.

(12) OTHER WATER RIGHTS used on this land, including wells. Give Registration and Water Court Case Numbers.

Type or right

Used for (purpose)

Description of land on which used

There is a well at the old Spicer School which this well would
replace. There is irrigation from the Arapahoe Ditch. The well

(13) THE APPLICANT(S) STATE(S) THAT THE INFORMATION SET FORTH HEREON IS

TRUE TO THE BEST OF HIS KNOWLEDGE.

old well was not registered.

Arapahoe Livestock Co. by Daniel Dwyer, Sec'y.

SIGNATURE OF APPLICANT(S)



1120 Lincoln Street, Suite 801
Denver, CO 80203

May 15, 2015

Certified Mail Return Receipt Requested # 7011 1150 0002 3166 4800

Mr. Max R. and Mrs. Jean E. Maxwell
13254 Highway 14
Walden, CO 80430

RE: Response to Complaint Report – Baseline Water Sampling Request
Complaint No. 200428126
Well Permit No. 105771
NWSE Quarter Section 23 - Township 6 North – Range 81 West
Jackson County, Colorado

Dear Mr. and Mrs. Maxwell:

On April 1, 2015, LT Environmental, Inc. (LTE) on behalf of the Colorado Oil and Gas Conservation Commission (COGCC) conducted a field visit to assess the quality of groundwater drawn from your domestic well. The water sample was collected in response to your communication with the COGCC Hearings Unit. The water sample was analyzed for general organic and inorganic constituents, dissolved methane, and for the presence of bacteria. This letter summarizes the water quality results.

FIELD TESTING

The water sample was collected from a spigot on the South side of your house bypassing any water treatment systems. It is the COGCC's understanding that the well has a submersible pump inside of an eight-inch perforated steel with PVC casing. The valve was turned on at approximately 11:54 and allowed to run until 12:14, in order to purge an adequate volume of water from the well for accurate sampling results. It was observed that the well was running upon arrival as Mr. Maxwell was watering trees. The water was clear, had no odor and no effervescence. The sample was collected in laboratory certified containers at 12:33. The containers were labeled, placed on ice in a cooler, and delivered to Test America Laboratories in Arvada, Colorado with a chain-of-custody form. Attachment 1 is the Residential Water Well Field Form.

P 303.894.2100 F 303.894.2109 www.colorado.gov/cogcc

Commissioners: Thomas L. Compton - Chairman, Richard Alward, John H. Benton, DeAnn Craig,
James W. Hawkins, Tommy Holton, Andrew L. Spielman, Mike King, Dr. Larry Wolk

John W. Hickenlooper, Governor | Mike King, Executive Director, DNR | Matthew J. Lepore, Director



DISCUSSION OF ANALYTICAL RESULTS

The Water Quality Control Commission (WQCC) of the Colorado Department of Public Health and Environment (CDPHE) established “Domestic Use – Quality” The Human Health and Secondary Drinking Water Standards in Regulation 41 “The Basic Standards for Groundwater” (5CCR 1002-41). It is important to note that these standards were established for municipal public drinking water supplies, and that people often use and consume groundwater from private wells that exceeds these standards. The COGCC is an implementing agency of the groundwater standards for impacts associated with oil and gas exploration and production activities.

Analytical data for the sample from your water well was compared to the CDPHE human health drinking water standards in the table provided as Attachment 2. The complete laboratory analytical report is provided as Attachment 3.

VOLATILE and SEMIVOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS

A target list of volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) was used during analysis of water from your well. Certain VOCs (benzene, ethylbenzene, total xylenes, and naphthalene) can be one indication of contamination or impacts from oil and gas operations or other hydrocarbon sources. None of the analyzed parameters having CDPHE Human Health Drinking Water Standards were detected in the sample from your domestic well, with the exception of one SVOC compound.

INORGANIC ANALYTICAL RESULTS

The following inorganic element was detected at a level exceeding the CDPHE human health drinking water standards in the sample from your water well.

- **Manganese** was detected in the sample from your domestic well at a concentration of 0.620 milligrams per liter (mg/l) or 620 micrograms per liter (ug/l).

*The CDPHE domestic supply drinking water standard for manganese (Mn) is **0.05 mg/l**.*

The sample from your well was also analyzed for sodium, calcium, magnesium, potassium, bromide, and alkalinity content, and the specific conductivity of the sample was measured. There are no CDPHE drinking water standards for these parameters; a sodium concentration of 20 mg/l is often recommended by some physicians for patients on salt restricted diets or those suffering from hypertension or heart disease. A concentration level of 12 mg/l was detected in the water sample.

METHANE GAS ANALYSIS

- **Dissolved methane** no methane was detected above the detection limit.

BACTERIAL ANALYSIS

The Biological Activity Reaction Test (BART) of the sample from your well are summarized below.

- **Iron-Related Bacteria (IRB)** was not detected in the water sample collected from your domestic water well at low aggressivity levels.

Although not harmful, iron-related bacteria can become a nuisance by plugging the well pump, causing red staining on plumbing fixtures and laundered clothing, building up red, slimy accumulations on any surface the water touches, and causing what appears to be a sheen on standing water. Signs that may indicate an iron bacteria problem include yellowish, red or orange colored water, rusty deposits in toilet tanks and strange smells resembling fuel oil, cucumbers or sewage. Sometimes the odor will be apparent in only the morning, or after other extended periods of non-use.

- **Sulfate-Reducing Bacteria (SRB)** was not detected in the water sample collected from your domestic water well at low aggressivity levels.

Sulfate reducing bacteria are serious nuisance organisms in water as they can cause severe taste and odor problems. These bacteria reduce sulfate that occurs naturally in the water and generate hydrogen sulfide (H₂S) gas as they grow. The hydrogen sulfide (H₂S) gas is a nuisance because it smells like rotten eggs, initiates corrosion on metal surfaces, and reacts with dissolved metals such as iron to generate black sulfide deposits.

- **Slime Forming Bacteria (SLYM)** was not observed to be at absent in the water sample collected from your domestic water well.

Although not usually harmful, Slime Forming Bacteria can become a nuisance by plugging well pumps and causing slimy accumulations on plumbing fixtures and standing water. These bacteria are often gelatinous in nature and may range in color from white, to red, to black. As slime bacteria mats grow, they create an environment in which complex associations of other strains of bacteria can develop.

CONCLUSIONS

There are no indications of any oil & gas related impacts to your water well. The water sample from your well did not contain the organic compounds benzene, toluene, ethyl benzene, or total xylenes (BTEX), which are often associated with contamination from petroleum hydrocarbons. Total Petroleum Hydrocarbons (TPH), another method used to indicate impacts from oil & gas, were not detected in the sample.

The concentration of dissolved solids your well water (450 mg/l) was below the drinking water standards established by the Water Quality Control Commission of the CDPHE. The COGCC maintains a water quality database where the results from your water well sample will be

recorded. Based on the results of this sampling, your complaint regarding potential impacts to groundwater quality is closed with this letter.

The COGCC has participated in the publication of a general information pamphlet on water supply wells which includes a simple well disinfection procedure to help control nuisance bacteria, should they ever become an issue. This pamphlet, entitled *How Well Do You Know Your Water Well*, is available on the COGCC website (www.cogcc.state.co.us) on the Library Presentation Page, under the heading General. In addition, the National Groundwater Association has sponsored a website (<http://www.wellowner.org/>) with resources and information for water well owners.

You can view your water well permit and related documents at the Colorado Division of Water Resources website (<http://www.dwr.state.co.us/WellPermitSearch>). A copy of your water well permit is also provided as an attachment to this letter.

Should you have any questions, please contact me at 970-871-1963.

Sincerely,

Kris Neidel
Environmental Protection Specialist-Northwest Colorado

Enclosures: Attachment 1 Residential Water Well Field Data Form
 Attachment 2 Analytical Summary (Table 1)
 Attachment 3 Laboratory Analytical Report
 Attachment 4 Laboratory Report BART
 Attachment 5 Water Well Permit Number 105771

Cc: Alex Fischer, P.G., COGCC-Environmental Supervisor-Western Colorado
 Greg Deranleau, COGCC-Environmental Manager