AP - \_80\_\_\_\_

# STAGE 2 Closure

Date 03/02/2015\_

State QE 13 #1 Section 1, T 12S, R 34E, Unit L Lea County, New Mexico NMOCD Case # AP-080

Prepared For: Yates Petroleum

Prepared by R.T. Hicks Consultants, Ltd. Albuquerque, New Mexico

### R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Fax: 505.266-0745

January 26, 2015

Mr. Jim Griswold and Dr. Tomas Oberding New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

RE: Yates Petroleum State QE #1,T12S R34E Section 1, Lea County NM

NMOCD #AP-080

**Abatement Completion Report** 

Dear Mr. Griswold:

On behalf of Yates Petroleum Corporation, R.T. Hicks Consultants (Hicks Consultants), is pleased to submit this Abatement Completion Report. For the benefit of YPC and their partner in this well, Pride Energy, Rule 19.15.30.19, which describes completion of abatement is reproduced below with *emphasis added*.

### 19.15.30.19 COMPLETION AND TERMINATION:

- **A.** The division shall consider abatement complete when the responsible person meets the *standards and requirements set forth in 19.15.30.9* NMAC. At that time, the responsible person shall submit an abatement completion report, documenting compliance with the standards and requirements set forth in 19.15.30.9 NMAC, to the director for approval. The abatement completion report also shall propose changes to long term monitoring and site maintenance activities, if needed, to be performed after the abatement plan's termination.
- **B.** Provided that the responsible person meets the other requirements of 19.15.30 NMAC and provided further that the responsible person has met the standards and requirements set forth in 19.15.30.9 NMAC, the director shall approve the abatement completion report. When the director approves the abatement completion report, the director shall also notify the responsible person in writing that the abatement plan is terminated.

Applicable portions of Section 19.15.30.9 [*emphasis* added] are reproduced below for the benefit of YPC and Pride Energy.

### 19.15.30.9 ABATEMENT STANDARDS AND REQUIREMENTS:

- **A.** The responsible person shall *abate the vadose zone so that water contaminants in the vadose zone will not with reasonable probability contaminate ground water* or surface water, in excess of the standards in Subsections B and C of 19.15.30.9 NMAC, through leaching, percolation or other transport mechanisms, or as the water table elevation fluctuates.
- **B.** The responsible person shall *abate ground-water pollution at a place of withdrawal for present or reasonably foreseeable future use*, where the TDS concentration is 10,000 mg/l or less, to conform to the following standards:
  - (1) toxic pollutants as defined in 20.6.2.7 NMAC shall not be present; and
  - (2) the standards of 20.6.2.3103 NMAC shall be met.
- **C.** The responsible person shall abate surface-water pollution ....
- **D.** The division shall not consider subsurface-water and surface-water abatement complete until eight consecutive quarterly samples, or an alternate lesser number of samples the director approves, from the compliance sampling stations the director approved meet the abatement standards in Subsections A, B and C of 19.15.30.9 NMAC. The division shall consider abatement of water contaminants measured in solid-matrix samples of the vadose zone complete after one-time sampling from compliance stations the director approves.

The purpose of this report is to

- provide the results from ongoing investigations
- demonstrate that the operator has met the standards and requirements set forth in 19.15.30.9 NMAC

### Background

On March 6, 2009, NMOCD determined the State QE 13 #1 Site - Stage 1 Abatement Plan dated April 14, 2008 administratively complete.

On December 18, 2008, Hicks Consultants submitted a Stage 2 Abatement Plan. Groundwater monitoring continued from 2008 to 2014.

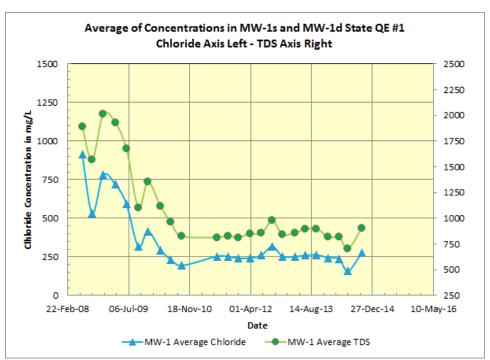
In 2014, the operator implemented an OCD-approved vadose zone remedy. Because of the approved vadose zone remedy of 2014, this submission summarizes the groundwater data only.

### **Ground Water Sampling and Monitoring**

Plate 1 shows the site location on a topographic map and includes ground water contours. As can be seen, ground water movement is to the southeast. Appendix A presents logs for MW-1s and MW-1d. An examination of the logs and forms shows that:

- i. The screened interval in the saturated zone for MW-1s is 38.5 to 46 feet (measured from top of casing)
- ii. MW-1s measures ground water quality in the uppermost 7 to 8 feet of the uppermost aquifer.
- iii. The screened interval for MW-1d is 54.5 to 64.5 feet (measured from top of casing)
- iv. MW-1d measures ground water quality in the aquifer from about 16 feet below the water table to about 27 feet below the water table

The results of all sampling events are presented in Table 1 (see Attachment A at the end of this report). Plate 2 is a site map showing recent ground water elevation; chloride and TDS concentrations. Figure 1 shows the average chloride and TDS concentration in the uppermost 27 feet of the aquifer: The average concentrations in MW-1 are calculated by averaging the concentration from MW-1s with the concentration from MW-1d. All laboratory data is in Appendix B.



**Figure 1:** Averaged TDS and Chloride concentrations from MW-1d and MW-1s at the State QE 13 #1 site.

An examination of Table 1 and Figure 1 show that:

- Since routine monitoring began in 2008, TDS and chloride concentrations in MW-1s have declined to less than 1/3 of their original values.
- TDS and chloride concentrations in MW-1d have never exceeded 542 mg/L and 68 mg/L respectively. Average concentrations over this time interval are 490 mg/L and 63 mg/L. New Mexico ground water standards are 1000 mg/L and 250 mg/L respectively.
- The average TDS concentration of MW-1s and MW-1d has been below WQCC standards since June 2010.
- Since June 2010, 40% of the 17 sampling events show average chloride concentration in MW-s and MW-1d below 250 mg/L. However, during this 4-year period, chloride concentration exceeded 260 mg/L on four events and 275 mg/L only once.
- Since June 2010, the average chloride concentration in the uppermost 27 feet of the aquifer is 246 mg/L (17 sampling events)
- Since June 2010, there has been comparatively little variation in concentration

### **Conclusions**

Based upon work at the site since 2008, we conclude:

A. The responsible person has abated the vadose zone so that water contaminants in the vadose zone will not with reasonable probability contaminate ground water or surface water, in excess of the standards in Subsections B and C of 19.15.30.9 NMAC, through leaching, percolation or other transport mechanisms, or as the water table elevation fluctuates.

- B. Ground water more than 54.5 feet below ground surface (MW-1d) is not impacted by seepage from the Pride drilling pit or the previous pit used by Tenneco
- C. TDS and chloride concentrations in the uppermost 27 feet of ground water have been, on average, below New Mexico ground water standards since June 2010.
- D. Natural dispersion and dilution have effectively restored ground water quality
- E. The operator has abated groundwater pollution at a place of withdrawal for present or reasonably foreseeable future use, where the TDS concentration is 10,000 mg/l or less, to conform to the following standards:
  - (1) toxic pollutants as defined in 20.6.2.7 NMAC shall not be present; and
  - (2) the standards of 20.6.2.3103 NMAC shall be met.

We respectfully request that the Director approve the abatement completion report and notify the operator in writing that the abatement plan is terminated.

If you have any question or comments, please contact me or David Hamilton at 505-266-5004.

Sincerely,

R.T. Hicks Consultants

Randall Hicks Principal

cc: Katie Parker, Yates Petroleum Corporation

Matt Pride, Pride Energy

**Dave Hamilton** 

### Attachment A

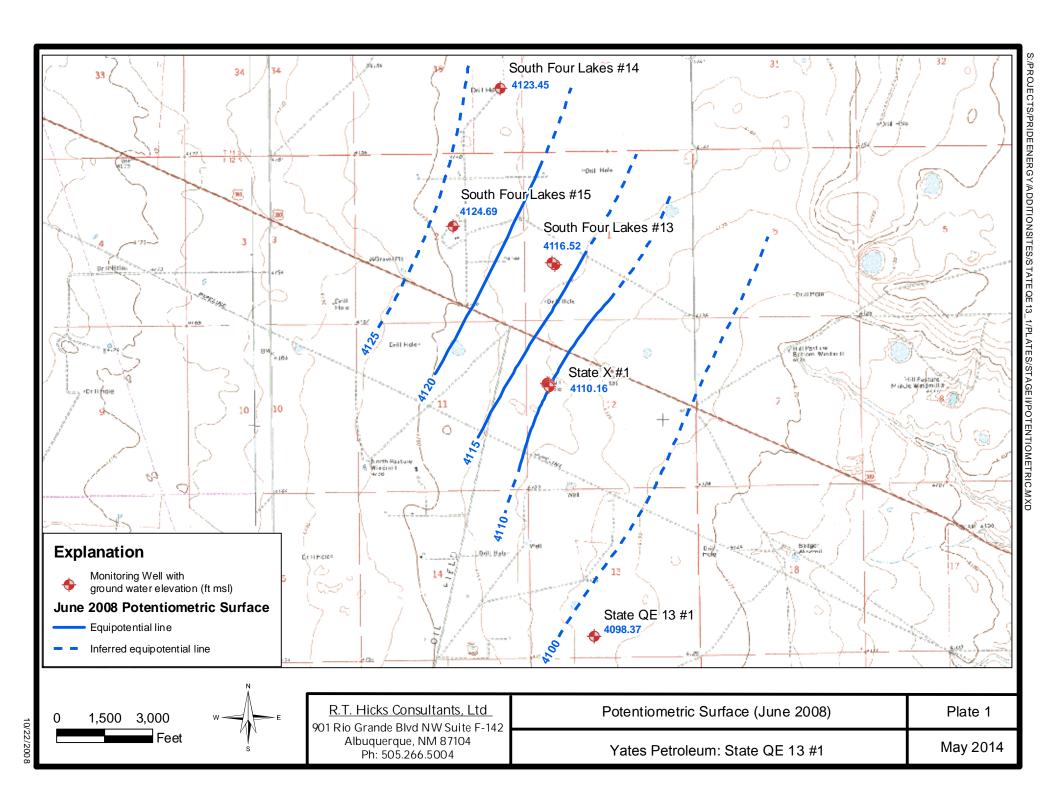
 
 Table 1: Sampling results for TDS, Chloride, BTEX and Naphthalene at MW-1 Deep and Mw-1
 Shallow.
ND is not-detected. NA is not analyzed for.

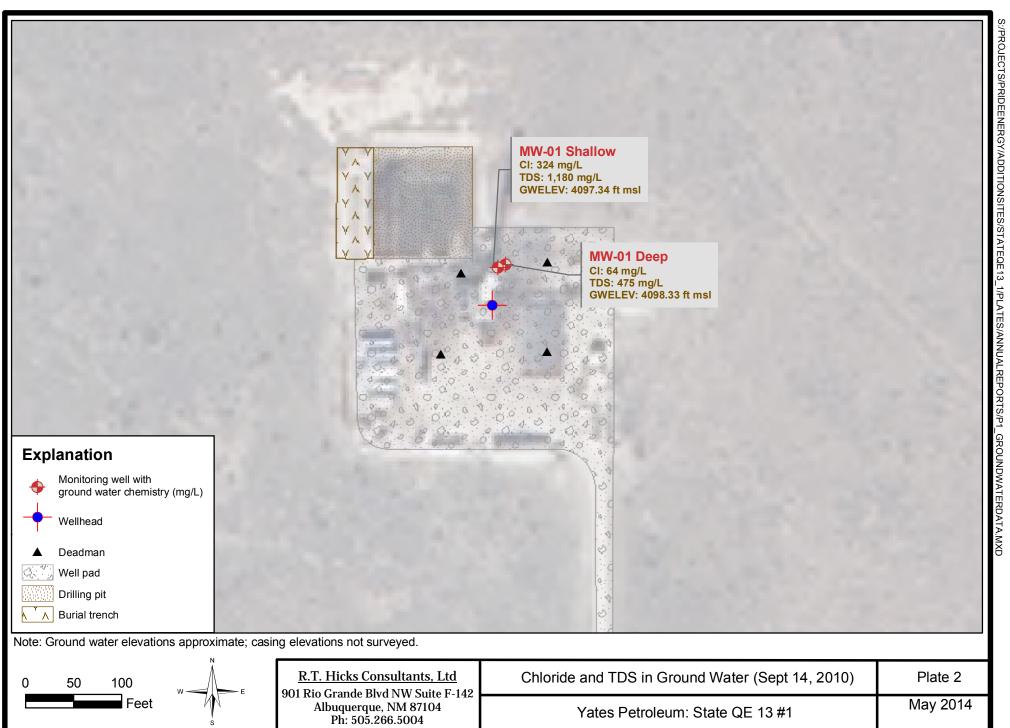
ND is not-de	etectea. NA	is not an	alyzed	jor.				
MIVV I BOOP	Depth to						Total	
Date	Water	Chloride	TDS	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene
3/18/2008		60	498	<.001	<.001	<.001	<.003	<.001
6/19/2008	38.03	66.7	464			NA		
9/9/2008	38.07	64	542	<.001	<.001	<.001	<.003	<.001
12/8/2008	38.05	60	515	<.001	<.001	<.001	<.003	<.001
3/18/2009	38.08	60	498	<.001	<.001	<.001	<.003	<.001
6/17/2009	38.21	64	490	<.001	<.001	<.001	<.003	<.001
9/22/2009	38.06	64	447	<.001	<.001	<.001	<.003	<.001
3/25/2010		60	469	<.001	<.001	<.001	<.003	<.001
6/16/2010		64	493	<.001	<.001	<.001	<.003	<.001
9/14/2010		64	475	<.001	<.001	<.001	<.003	<.001
12/16/2010		64	474					
3/23/2011		64	475					
6/30/2011		64	490					
9/30/2011		64	440					
12/20/2011		64	487					
3/28/2012		64	499					
6/28/2012		64	459			NA		
9/27/2012		64	627			INA		
12/18/2012		68	485					
3/28/2013		64	480					
6/26/2013		68	500					
9/24/2013		56	479					
12/30/2013		52	465					
3/28/2014		60	524					
6/9/14		60	474					
9/29/14		60	476					

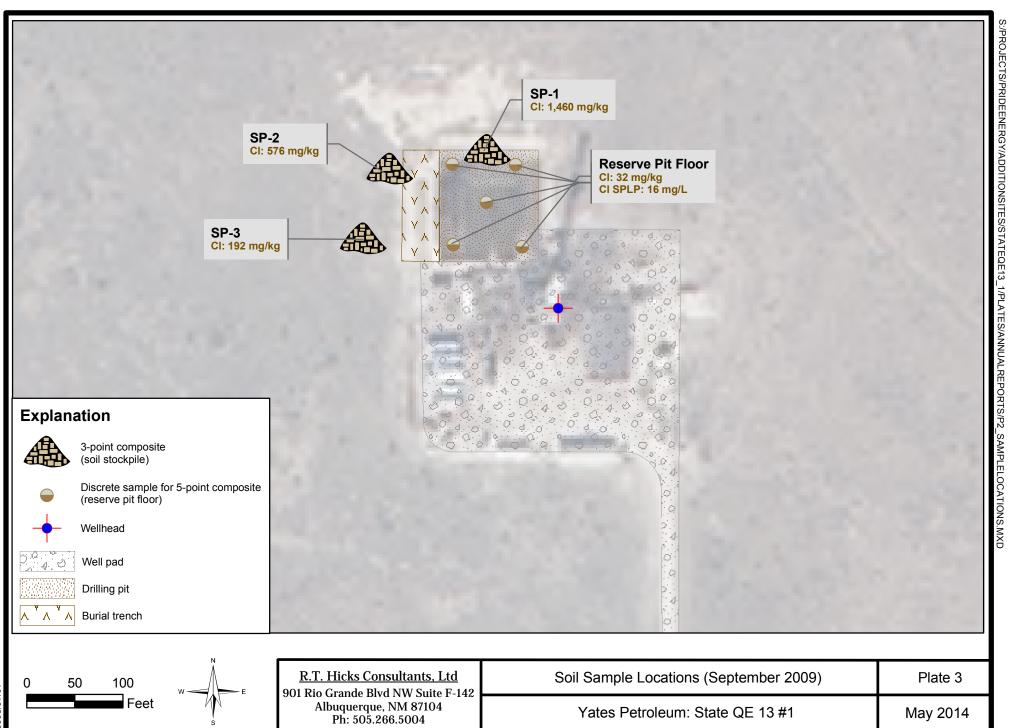
MW-1 Shallo	OW							
	Depth to						Total	
Date	Water	Chloride	TDS	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene
1/24/2008	38.5	1490						
3/13/2008	38.48	4340	6040	<.001	<.001	<.001	<.003	NA
3/18/2008		1380	3360	<.001	<.001	<.001	<.003	<.001
6/19/2008	38.59	1760	3310		1	NA		
9/9/2008	38.59	1000	2590	<.001	<.001	<.001	<.003	<.001
12/8/2008	38.52	1500	3510	<.001	<.001	<.001	<.003	<.001
3/18/2009	38.53	1380	3360	<.001	<.001	<.001	<.003	<.001
6/17/2009	38.67	1120	2860	<.001	<.001	<.001	<.003	<.001
9/22/2009	38.58	570	1760	<.001	<.001	<.001	<.003	<.001
3/25/2010		530	1760	<.001	<.001	<.001	<.003	<.001
6/16/2010		400	1430	<.001	<.001	<.001	<.003	<.001
9/14/2010		324	1180	<.001	<.001	<.001	<.003	<.001
12/16/2010		444	1230					
3/23/2011		276	943					
6/30/2011		444	1140					
9/30/2011		440	1220					
12/20/2011		420	1140					
3/28/2012		420	1200					
6/28/2012		460	1250			NA		
9/27/2012		570	1430			INA		
12/18/2012		440	1200					
3/28/2013		440	1240					
6/26/2013		452	1290	1				
9/24/2013		470	1320	1				
12/30/2013		436	1170	1				
3/28/2014		412	1110	1				
6/9/14		256	936	1				
9/29/14		490	1330	1				

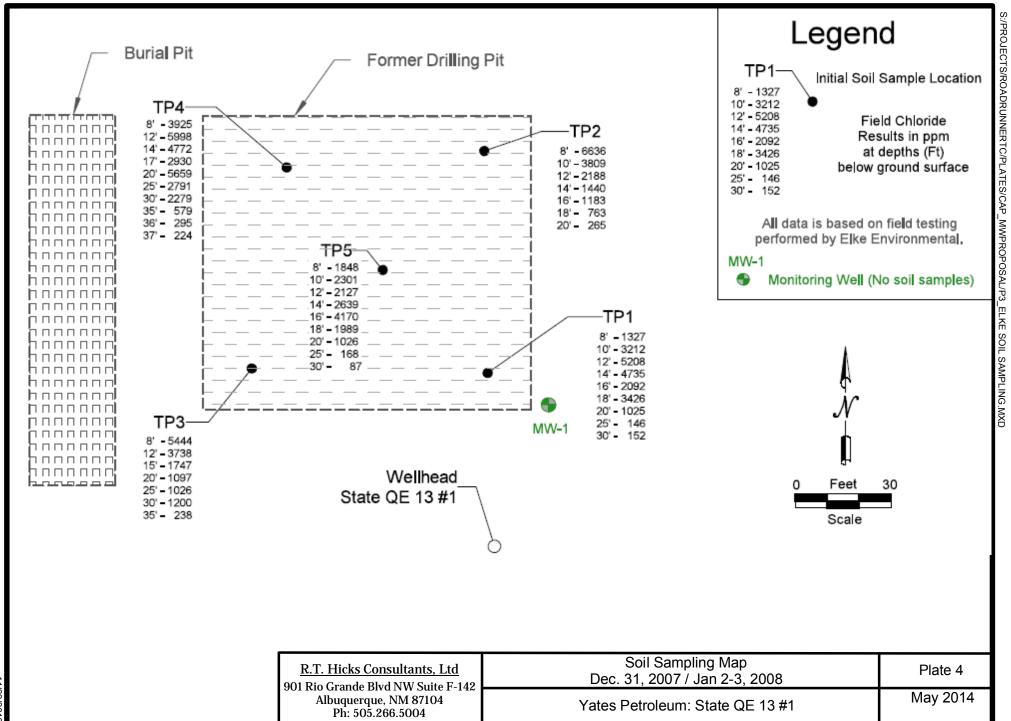
Averaged Chloride and TDS						
Date	Chloride	TDS				
3/18/2008	720	1929				
6/19/2008	913	1887				
9/9/2008	532	1566				
12/8/2008	780	2013				
3/18/2009	720	1929				
6/17/2009	592	1675				
9/22/2009	317	1104				
3/25/2010	295	1115				
6/16/2010	232	962				
9/14/2010	194	828				
12/16/2010	254	852				
3/23/2011	170	709				
6/30/2011	254	815				
9/30/2011	252	830				
12/20/2011	242	814				
3/28/2012	242	850				
6/28/2012	262	855				
9/27/2012	317	1029				
12/18/2012	254	843				
3/28/2013	252	860				
6/26/2013	260	895				
9/24/2013	263	900				
12/30/2013	244	818				
3/28/2014	236	817				
6/9/14	158	705				
9/29/14	275	903				

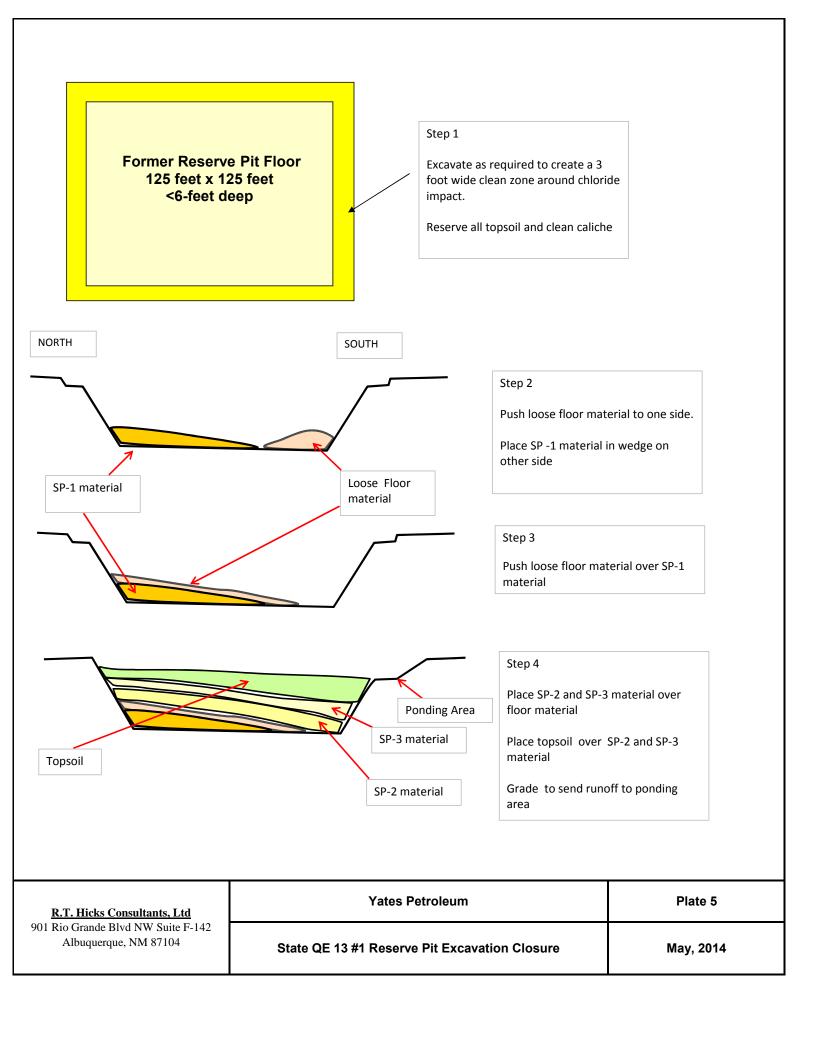
# **Plates**











# **Appendix A**

R.T. Hicks Consultants, Ltd.

901 Rio Grande Blvd. NW, Suite F-142 Albuquerque, NM 87104

File	Number:	

## NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

1. OWNER OF WELL	
Name: Pride Energy	Work Phone:
Contact:	Home Phone:
Address: P.O. Box 701950	
City: Tulsa	State: <b>OK</b> Zip: <b>74170</b>
2. LOCATION OF WELL(A,B,C,or D required,E or F if kn	own)
A1/41/41/4 Section: <b>13</b> To	
in <b>Lea</b>	County.
B. X =feet, Y =	feet, N.M. Coordinate System
U.S.G.S. Quad Map	orane.
C. Latitude: 33 d 16 m 24.0 s Longit	
D. East (m), North (m), UT	M Zone 13, NAD(27 or 83)
E. Tract No, Map No of the	Hydrographic Survey
F. Lot No, Block No of Unit/Tract	N of the
Subdivision recorded in	County.
G. Other:	
H. Give State Engineer File Number if existing wel	1:
I. On land owned by (required): State of New Mexic	0
3. DRILLING CONTRACTOR	
License Number: WD-1456	
Name: White Drilling Company, Inc.	Work Phone: 325-893-2950
Agent: John W. White	Home Phone: 325-893-2950
Mailing Address: P.O. Box 906	
Olivida	
City: Clyde	State: <b>IX</b> Zip: <b>79510</b>
4. DRILLING RECORD: QE 13 #1 MW-1	
Drilling began: 01/22/08 ; Completed: 01/22/08	; Type tools: Air Rotary ;
Size of hole: 6 1/8 in.; Total depth of well: 46.	0 ft.;
Completed well is: <b>shallow</b> (shallow, art	
Depth to water upon completion of well: 25.90	ft.
File Number:	Trn Number:
Form: wr-20 page 1 of 4	

					Fi	le Number:		
		NEW MEXIC		CE OF TH		ENGINEER		
. PRINCIP	AL WATER	R-BEARING S	STRATA:	QE 13 #1	MW-1			
Depth i From 25.9	n Feet To <b>46.0</b>	Thickness in feet 20.1	water-			Es	timated (GPM)	
. RECORD	OF CASI	NG						
Diamete (inches		ft. per in.	Top <b>0.0</b>	in Feet Bottom 26.0	Length (feet) 26.0	Type of Shoe	From	То
2.0	.020	4.0	26.0	46.0	20.0		26.0	46.0
		Hole Diameter 6 1/8	Sacks	Cubic Fe of Cemer	nt	Method of Place	ment	
24.0	10.0	6 1/8	2.0			tonite Pellets		
10.0	0.0	6 1/8	10.0	1.997	Cem			
Pluggii	ng Contrac	Dotor:		1 - 6-7				
		thod:						
Plu	agging Met							
		gged:						
Date	Well Plug	gged:			- 1817	P. J. 10 k		
Date	Well Plug				Engineer Re	epresentative		

File	Number:		Trn Number:	
	Form: wr-20	page 2 of 4	,	

File Numb	er:		
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# NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

9.	LOG	OF	HOLE:	OE	13	#1	MW-1
----	-----	----	-------	----	----	----	------

		# Z	
Depth in From	To	Thickness in feet	Color and Type of Material Encountered
0.0	16.0	16.0	Caliche.
16.0	19.0	3.0	Limestone.
19.0	22.0	3.0	Caliche.
22.0	46.0	24.0	Paddish brown agady alay
22.0	40.0	24.0	Reddish brown sandy clay.
	-		
		-	
		-	
-			
Ø		·	
	-		

File Number:		Trn Number:	
Form: wr-20	page 3 of 4		

File	Number:			

# NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

	THE DIFFERENCE O	OR EXPLANATION	MD.QL 15 WI	MW-I
		1 . 6		of his knowledge and
The under	signed hereby ce	rtifles that,	to the best	or his knowieage and
belief, t	signed hereby ce he foregoing is	a true and con	to the best	of the above described
The under belief, thole.	signed hereby ce he foregoing is	a true and con	to the best	of the above described
belief, t	signed hereby ce he foregoing is	a true and con	to the best crect record	of the above described
belief, t	signed hereby ce he foregoing is Drifler	a true and con	to the best crect record	of the above described
belief, t	he foregoing is	a true and con	crect record	of the above described
belief, t	he foregoing is	a true and con	crect record	of the above described
belief, t	he foregoing is	a true and con	crect record	of the above described
belief, thole.	Dri/ller	a true and con	(mm/dd	of the above described
belief, thole.	Dri/ller	a true and con	(mm/dd	of the above described
belief, thole.	Dri/ller	a true and con	mm/dd	of the above described
belief, thole.	Dri/ller	a true and con	mm/dd	of the above described  year)
belief, thole.	Dri/ller	a true and con	mm/dd	of the above described  year)
belief, thole.	Dri/ller	a true and con	mm/dd	of the above described  year)
belief, thole.	Dri/ller	a true and con	mm/dd/  (mm/dd/   NEER USE ON:	of the above described  year)

### **Borehole/Well Log**

Site Name: State QE 13 #1

tte QE 13 #1 Coordinate System: <u>UTM Zone 13 (meters)</u>

Z:

 Address:
 8.6 miles west on Hwy 380
 X:
 642847.12

 City, State:
 Tatum, NM
 Y:
 3682646.04

County: Lea

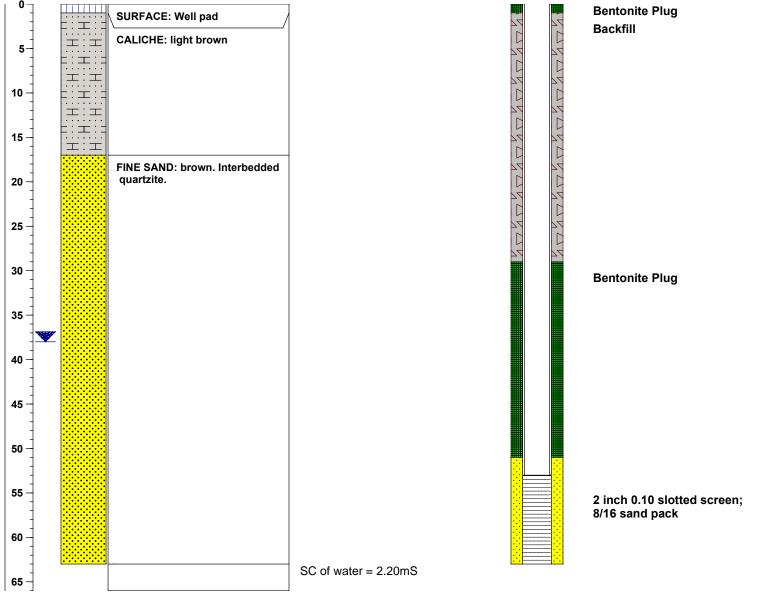
Driller: Atkins Engineering Datum: NAD 83

Auger Type: Hollow Stem Borehole ID: SB-05

Auger Dia.: 7.25 Well ID: MW-01 Deep

Drill Date: 05/07/08 Total Depth: 63

DEPTH	W.L.	Lithology	Soil Description	Field Measurements		Borehol	e Completion
0-			SURFACE: Well pad		<b>1</b>	74	Bentonite Plug Backfill
			CALICHE: light brown				Васктііі



### R.T. Hicks Consultants, Ltd

901 Rio Grande Blvd NW Suite F-142 Albuquerque, NM 87104 Ph: 505-266-5004 Fax: 505-266-0745 Plate 8

Page 1 of 1

# **Appendix B**



ANALYTICAL RESULTS FOR RT HICKS CONSULTANTS ATTN: ANDREW PARKER 901 RIO GRANDE BLVD. NW, SUITE F-142 ALBUQUERQUE, NM 87104

Receiving Date: 06/18/10 Reporting Date: 06/22/10

Project Number: STATE QE 13 #1 Project Name: YATES PETROLEUM

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM

Sample ID: MW-1-D Lab Number: H20153-1 Analysis Date: 06/21/10 Sampling Date: 06/16/10 Sample Type: WATER

Sample Condition: COOL & INTACT @ 1.5°C

Sample Received By: HM

Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result H20153-1	Method Blank	qc	%Recov.	True Value QC
Benzene	<0.001	< 0.001	0.011	110	0.010

Benzene	< 0.001	< 0.001	0.011	110	0.010
Toluene	< 0.001	< 0.001	0.010	100	0.010
Ethylbenzene	< 0.001	< 0.001	0.010	100.0	0.010
m+p - Xylene	< 0.002	< 0.002	0.023	113	0.020
o-Xylene	< 0.001	< 0.001	0.011	110	0.010

% Recovery

		70 110007017	
	Dibromofluoromethane	90.9	
ľ	Toluene-d8	101	
ľ	4-Bromofluorobenzene	104	

METHODS: EPA 8W-846-8260.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,

AND TOTAL XYLENES.

Chemist

06/24/10



ANALYTICAL RESULTS FOR RT HICKS CONSULTANTS ATTN: ANDREW PARKER 901 RIO GRANDE BLVD. NW, SUITE F-142 ALBUQUERQUE, NM 87104

Receiving Date: 06/18/10 Reporting Date: 06/22/10

Project Number: STATE QE 13 #1 Project Name: YATES PETROLEUM

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM Sample ID: MW-1-D

Lab Number: H20153-1

Analysis Date: 06/21/10 Sampling Date: 06/16/10 Sample Type: WATER

Sample Condition: COOL & INTACT @ 1.5°C

Sample Received By: HM

Analyzed By: ZL

BTEX 8260 (mg/L)

Sample Result H20153-1 Method

irue

True Value

Blank

QC %Recov.

QC

06/24/1:

Naphthalene <0.001 <0.001 0.010 100 0.010

% Recovery				
76 PURCUVELY				

Dibromofluoromethane	90.9	
Toluene-d8	101	
4-Bromofluorobenzene	104	

METHODS: EPA SW-846-8260. Not accredited for Naphthalene.

Chemist

Date



ANALYTICAL RESULTS FOR RT HICKS CONSULTANTS ATTN: ANDREW PARKER 901 RIO GRANDE BLVD. NW, SUITE F-142 ALBUQUERQUE. NM 87104

Receiving Date: 06/18/10 Reporting Date: 06/22/10

Project Number: STATE QE 13 #1 Project Name: YATES PETROLEUM

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM mple ID: MW-1-S

Sample ID: MW-1-S Lab Number: H20153-2

o-Xylene

Analysis Date: 06/21/10 Sampling Date: 06/16/10 Sample Type: WATER

Sample Condition: COOL & INTACT @ 1.5°C

Sample Received By: HM

Analyzed By: ZL

110

0.010

BTEX 8260 (mg/L)	Sample Result H20153-2	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	<0.001	0.011	110	0.010
Toluene	< 0.001	< 0.001	0.010	100	0.010
Ethylbenzene	< 0.001	< 0.001	0.010	100.0	0.010
m+p - Xylene	< 0.002	< 0.002	0.023	113	0.020

< 0.001

% Recovery

< 0.001

0.011

		20 110001019	
Dibromof	luoromethane	108	
Toluene-	18	112	
4-Bromot	luorobenzene	100	

METHODS: EPA SW-846-8260.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist

06/24/10 Date



ANALYTICAL RESULTS FOR RT HICKS CONSULTANTS ATTN: ANDREW PARKER 901 RIO GRANDE BLVD. NW, SUITE F-142 ALBUQUERQUE, NM 87104

Receiving Date: 06/18/10 Reporting Date: 06/22/10

Project Number: STATE QE 13 #1 Project Name: YATES PETROLEUM

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM Sample ID: MW-1-S

Lab Number: H20153-2

Analysis Date: 06/21/10 Sampling Date: 06/16/10 Sample Type: WATER

Sample Condition: COOL & INTACT @ 1.5°C

Sample Received By: HM

Analyzed By: ZL

BTEX 8260 (mg/L)

Sample Result

H20153-2

Method Blank

QC %Recov.

True Value

06/24/1

QC

Naphthalene	< 0.001	< 0.001	0.010	100	0.010

	70 INDUOVELY	
Dibromofluoromethane	108	
Toluene-d8	112	
4-Bromofluorobenzene	100	

METHODS: EPA SW-846-8260. Not accredited for Naphthalene.



ANALYTICAL RESULTS FOR RT HICKS CONSULTANTS ATTN: ANDREW PARKER 901 RIO GRANDE BLVD, NW, SUITE F-142 ALBUQUERQUE, NM 87104

Receiving Date: 06/18/10 Reporting Date: 08/22/10

Sampling Date: 06/16/10 Sample Type: WATER

Project Number: STATE QE 13 #1

Sample Condition: COOL & INTACT @ 1.5°C

CI.

Project Name: YATES PETROLEUM

Sample Received By: HM

TDS

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~ Analyzed By: HM

LEA COUNTY - NEW MEXICO

(mg/L)	(mg/L)	SAMPLE ID	LAB NO.
06/22/10	06/21/10	C C	Analysis Date
64	493	MVV-1-d	H20153-1
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METHOD: EPA 600/4-79-020	160.1	SM4500-CI-B
Not accredited for TDS and Chloride.		

06/24/1

Page 1 of 1

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01 E		ompany Name: RT Hicks Consultants	roject Manage	Andrew Parker	Address	901 Rio Grande Blvd NW Suite F-142 ~ Albuq, NM 87104	hone #	(505) 266-5004	roject #	State QE 13 #1	roject Location	1125-K34E-Sec13 Unit Letter O ~ Lea County - New Mexico		3	LAB USE ONLY	H20153-1								ReInduished by	1	Rozenne Johnson	June 1	Deliverse By:	Sample
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September 29, 2010

ANDREW PARKER

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 09/17/10 10:36.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Celey D. Keine



### Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To:

Received: Reported: Project Name: 09/17/2010 09/29/2010 STATE QE 13 #1

NONE GIVEN

Project Number: Project Location:

TDS

T12S-R34E-SEC13 U LTR O ~ LEA CTY -

Reporting Limit

5.00

475

Sampling Date: Sampling Type: 09/14/2010 Water

True Value QC

RPD

0.978

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

### Sample ID: MW - 1 - d (H020879-01)

_			-
OTEV 4	Nanhthalene	92608	

### Analyzed By: CMS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.001	0.001	09/27/2010	ND	0.018	90.6	0.0200	8.05	
Toluene*	< 0.001	0.001	09/27/2010	ND	0.020	99.5	0.0200	10.3	
Ethylbenzene*	< 0.001	0.001	09/27/2010	ND	0.017	86.7	0.0200	8.45	
m+p - Xylene	< 0.002	0.002	09/27/2010	ND	0.034	86.0	0.0400	8.70	
o-Xylene	< 0.001	0.001	09/27/2010	ND	0.018	87.6	0.0200	8.68	
Total Xylenes*	< 0.003	0.003	09/27/2010	ND	0.052	86.6	0.0600	8.69	
Surrogate: Dibromofluoromethane	83.09	6 80-120							
Surrogate: Toluene-d8	70.45	6 80-120							
Surrogate: 4-Bromofluorobenzene	73.45	6 80-120							
Chloride, SM4500CI-B	mg/	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	4.00	09/20/2010	ND	112	112	100	3.64	
TDS 160.1	mg/	L	Analyze	d By: HM					

Method Blank

ND

Analyzed

09/20/2010

Cardinal Laboratories \*=Accredited Analyte

09/14/2010

Cool & Intact

Jodi Henson

Water



### Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: ?

 Received:
 09/17/2010

 Reported:
 09/29/2010

 Project Name:
 STATE QE 13 #1

 Project Number:
 NONE GIVEN

09/29/2010 Sampling Type:
STATE QE 13 #1 Sampling Condition:
NONE GIVEN Sample Received By:

Sampling Date:

Project Location: T12S-R34E-SEC13 U LTR 0 ~ LEA CTY -

### Sample ID: MW - 1 - s (H020879-02)

BTEX + Naphthalene 8260B	mg/	L	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualific
Benzene*	< 0.001	0.001	09/27/2010	ND	0.018	90.6	0.0200	8.05	
Toluene*	< 0.001	0.001	09/27/2010	ND	0.020	99.5	0.0200	10.3	
Ethylbenzene*	< 0.001	0.001	09/27/2010	ND	0.017	86.7	0.0200	8.45	
m+p - Xylene	< 0.002	0.002	09/27/2010	ND	0.034	86.0	0.0400	8.70	
o-Xylene	< 0.001	0.001	09/27/2010	ND	0.018	87.6	0.0200	8.68	
Total Xylenes*	< 0.003	0.003	09/27/2010	ND	0.052	86.6	0.0600	8.69	
Surrogate: Dibromofluoromethane	92.6	% 80-120							
Surrogate: Toluene-d8	91.6	% 80-120							
Surrogate: 4-Bromofluorobenzene	93.0	% 80-120							
Chloride, SM4500CI-B	mg/	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	324	4.00	09/20/2010	ND	112	112	100	3.64	
TDS 160.1	mg,	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
TDS	1180	5.00	09/20/2010	ND				0.978	

Cardinal Laboratories \*=Accredited Analyte

PLINE NOTE: Listing and because a Control's bidding and death exclusive entering for any claim untuity, exhibited in control or turt, shall be britted to the amount paid by client for analysis. All claims, including those for negligence and any other cause elementer shall be deemed watered untuine made in writing and manned by Cardinal extito Story (IX) days after completion of the application service. In so, event shall Cardinal be labeled for bookerist or consequential description, business interruptions, time of use, or loss of profits incurred by client, the administration, and the control of the services interruptions, then of use, or loss of profits incurred by client, the administration of sections and control of the services interruptions, then of use, or loss of profits incurred by Cardinal Story (IX) and the profit of th

Celey D. Keine



### Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500C-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

REAST NOTE: Labelly and Comagn. Carbour's beinty and clerch exclusive remain for any claim what, whether based in contract or turn, shall be limited to the amount paid by clerc for analyses. All clerch, including those for negligience an any other course enhancement what the deserved unless make to writing and recorded by Carbour's birthy (RE) days after completely of the application enters. In no second and Carbour's the including without birthy (RE) days after completely of the application entered, to not one of the amount of parties recorded by clerch, the absolutely, affiliate and assign a form yellow to the performance of the amount of parties recorded and assignment and assignment of parties and the application of the amount of the amount of contract to the performance of the amount of parties and the application of the amount of parties and the application of the amount of parties and the application of the amount of the amount of parties and the application of the amount of parties and the application of the amount of parties and the application of the amount of the amo

Celey D. Keene, Lab Director/Quality Manager

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Page 5 of 5



September 29, 2010

ANDREW PARKER

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 09/17/10 10:36.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Celey D. Keine



### Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: ?

Received: Reported: Project Name: 09/17/2010 09/29/2010

09/29/2010 STATE QE 13 #1

Project Number: Project Location: NONE GIVEN

T12S-R34E-SEC13 U LTR O ~ LEA CTY -

Sampling Date:

Sampling Type: Sampling Condition:

Sample Received By:

09/14/2010 Water Cool & Intact

Jodi Henson

### Sample ID: MW - 1 - d (H020879-01)

BTEX + Naphthalene 8260B
--------------------------

mg/L

### Analyzed By: CMS

	-								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Naphthalene	< 0.001	0.001	09/27/2010	ND	0.018	91.5	0.0200	5.42	
Surrogate: Dibromofluoromethane	83.0 %	6 80-120	_						
Surrogate: Toluene-d8	70.4 %	6 80-120							
Surrogate: 4-Bromofluorobenzene	73.49	6 80-120							

### Sample ID: MW - 1 - s (H020879-02)

BTEX +	Na	phthalene 8260B
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#### Analyzed By: CMS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Naphthalene	<0.001	0.001	09/27/2010	ND	0.018	91.5	0.0200	5.42	
Surrogate: Dibromofluoromethane	92.6	% 80-120	•						
Surrogate: Toluene-d8	91.6	% 80-120							
Surrogate: 4-Bromofluorobenzene	93.0	% 80-120							

Cardinal Laboratories \*=Accredited Analyte

PLOSE NOTE: Liability and Damagins. Cardon's liability and cheer's exclusive memory for any claim strategy extends in contract or turt, shall be limited to the amount paid by clear for analysis. All claims, including those for negligence and any other causes witnesseer shall be deserved extends in wetting and received by Cardoni within thing (RE) days after completion of the application service. In no execut shall Cardoni be liability for companyed changes including, without institution, lastiness interruptions, last of any or loss of profits incomed by clearly and of the profit incomes of the solution incomes interruptions, last of any or loss of profits incomed by clearly and or all profits income and or or maked to the performance of the solution income.

Celey D. Keine



### Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500CI-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

REAST NOTE: Labelly and Comagn. Carbour's beinty and clerch exclusive remain for any claim what, whether based in contract or turn, shall be limited to the amount paid by clerc for analyses. All clerch, including those for negligience an any other course enhancement what the deserved unless make to writing and recorded by Carbour's birthy (RE) days after completely of the application enters. In no second and Carbour's the including without birthy (RE) days after completely of the application entered, to not one of the amount of parties recorded by clerch, the absolutely, affiliate and assign a form yellow to the performance of the amount of parties recorded and assignment and assignment of parties and the application of the amount of the amount of contract to the performance of the amount of parties and the application of the amount of parties and the application of the amount of parties and the application of the amount of the amount of parties and the application of the amount of parties and the application of the amount of parties and the application of the amount of the amo

Celey D. Keene, Lab Director/Quality Manager

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Page 4 of 4



December 22, 2010

ANDREW PARKER

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 12/20/10 9:10.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: Reported: 12/20/2010 12/22/2010 STATE QE 13 #1 Sampling Date: Sampling Type: Sampling Condition: 12/16/2010 Water Cool & Intact

Project Name: Project Number: STATE QE 13 #1 NONE GIVEN

Sample Received By:

Jodi Henson

13.6

Project Location:

T12S-R34E-SEC13 U LTR O ~ LEA CTY -

Sample ID: MW - 1 - D (H021564-01)

Chloride, SM4500CI-B

TDS

mg/L

1230

5.00

Analyzed By: HM

Cilioriae, Siriesouch B	my.	/-	- miles	a by. tu-i					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	4.00	12/22/2010	ND	108	108	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	474	5.00	12/21/2010	ND				13.6	

### Sample ID: MW - 1 - S (H021564-02)

Chloride, SM4500CFB	mg	/L	Anaryze	u by: nm					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	444	4.00	12/22/2010	ND	108	108	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: HM	4 55000.01	X	101 63000	School Con-	
Annhée	Decuit	Deporting Limit	Anakand	Method Blank	DC	St. Decourse	True Value OC	pen	Ounlifer

ND

12/21/2010

Cardinal Laboratories \*=Accredited Analyte

REAST NOTE: Liability and Comagns. Cardinal's behilty and clearly exclusive remarks for any clean arising, whether based in contract or turt, shall be limited to the amount paid by clear for analyses. All clears, including those for negligence an any other causes whethereon shall be deemed varieties made in writing and resonated by Cardinal either body days, after completely of replaced to the performance of the amounts behilded to the performance of the amounts of performance of whether and clearly the performance of the contract of th



ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500CI-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

REAST NOTE: Labelly and Comagn. Carbour's beinty and clerch exclusive remain for any claim what, whether based in contract or turn, shall be limited to the amount paid by clerc for analyses. All clerch, including those for negligience an any other causes enhancement what the deserved unless make to writing and recorded by Carbour's birthy (RE) days after completely of the application enters. In no second and Carbour's the including without birthy (RE) days after completely of the application entered, to not one of the amount of parties recorded by clerch, the absolutely, affiliate and assign a form yellow to the performance of the amount of parties recorded and assignment and assignment of parties and the application of the amount of the amount of contract to the performance of the amount of parties and the application of the amount of parties and the application of the amount of parties and the application of the amount of the amount of parties and the application of the amount of parties and the application of the amount of parties and the application of the amount of the amo

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4

Page 4 of 4

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101 East Marland - Neideo 88	Tel (375) 300 Fax (575) 30	Company Name: RT Hicks C	Project Manager.	Andrew Parker	Address: (St	901 Rio Grand	hone #:	(505) 266-5004	noject #:	State QE 1	roject Location:	112S-R34E		704	EAB #	(LAB USE )	121564-1	2			1	Reinquished by:	Rozange Johdson	ReInquished by	Delivered By:	

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March 29, 2011

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 03/24/11 16:35.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)

Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received: 03/24/2011 Reported: 03/29/2011 STATE QE 13 #1 Project Name:

Sampling Date: Sampling Type: Sampling Condition: 03/23/2011 Water

NONE GIVEN Project Number:

Cool & Intact Sample Received By: Jodi Henson

Project Location: T12S-R34E-SEC13 U LTR 0 ~ LEA CTY -

Sample ID: MW - 1 - D (H100578-01)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	4.00	03/29/2011	ND	104	104	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	475	5.00	03/28/2011	ND				0.193	

#### Sample ID: MW - 1 - S (H100578-02)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	276	4.00	03/29/2011	ND	104	104	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: HM				Antonia	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	943	5.00	03/28/2011	ND				0.193	

Cardinal Laboratories \*=Accredited Analyte

Celecy D. Keine

Celey D. Keene, Lab Director/Quality Manager



ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Ci-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

ADMIN NOTE: Lability and Demagns. Cardinals behildly and clients excitate remark for any claim arising, whether based in content or tort, abid he broked to the amount paid by client for analyses. All claims, noticing those for negligence and my other cause whetheres that he demand whether tokes made to writing and restrict to the Content within 100 (CC) clays after completes of the applicable service. In no execut deal Content he belief for noticinal or consequences demands, within the content to the performance of the arrives between the content in the content of the arrives between the content of the content network relationship to the content of the content in the content of the content of the content network relationship.

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Page 4 of 4



July 08, 2011

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 07/01/11 15:37.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)

Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene



R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 07/01/2011

Reported: 07/08/2011

Project Name: STATE QE 13 #1

Sampling Date: Sampling Type: Sampling Condition: Sample Received By:

Water Cool & Intact Jodi Henson

06/30/2011

Project Location: T12S-R34E-SEC13 U LTR O ~ LEA CTY -

NONE GIVEN

Sample ID: MW-1-D (H101373-01)

Project Number:

Chloride, SM4500CI-B	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	4.00	07/05/2011	ND	112	112	100	3.64	
TDS 160.1	mg	/L	Analyze	d By: HM		1 11 11			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	490	5.00	07/05/2011	ND	228	95.0	240	1.06	

#### Sample ID: MW-1-S (H101373-02)

Chioride, SM4500CI-B	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	444	4.00	07/05/2011	ND	112	112	100	3.64	
TDS 160.1	mg	/L	Analyze	d By: HM	*		E (Code)		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	1140	5.00	07/05/2011	ND	228	95.0	240	1.06	

Cardinal Laboratories \*=Accredited Analyte

REAST NOTE: Labelly and Europea. Certifieds behilty and clerck exclusive remarks for any clean artising, whether based in content or tort, what he benefit to the amount paid by clean for analyses. All cleans, including those for negligence are any other cause whatevers shall be deemed varied unless made to writing and resonate by Certified within thiny (IC) days after completes of the application amount. In no award shall Certified be failed for including, without tentation, business interruptions, insee of use, or loss of profits incurred by cleans, a stabilished, affiliates or accounts acting out of or related to the performance of the sentence for many or complete and content of the sentence of the sentenc

Celecy D. Keine

Celey D. Keene, Lab Director/Quality Manager



ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Ci-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

ADMIN NOTE: Lability and Demagns. Cardinals behildly and clients excitate remark for any claim arising, whether based in content or tort, abid he broked to the amount paid by client for analyses. All claims, noticing those for negligence and my other cause whetheres that he demand whether tokes made to writing and restrict to the Content within 100 (CC) clays after completes of the applicable service. In no execut deal Content he belief for noticinal or consequences demands, within the content to the performance of the arrives between the content in the content of the arrives between the content of the content network relationship to the content of the content in the content of the content of the content network relationship.

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101 East Mariand - Hickor, New Moules, 69740	Tel (575) 393-2476 Fax (575) 393-2476	Sompany Name: RT Hicks (	Project Manager:	Andrew Parker	Address: (5	901 Rio Grai	(505) 266-5004	roject #:	State CE 13 #	T12S-R34		LAB#	ONLY ONLY	1.	4				,	1	K /	Rozáme do Garín	Neimon Marie	Delivered By.	1



October 04, 2011

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 09/30/11 14:15.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene



R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received:

09/30/2011

Sampling Date:

09/30/2011

Reported:

10/04/2011 STATE OF 13 #1

Sampling Type:

Water

Project Name: Project Number: STATE QE 13 #1 NOT GIVEN Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Location:

T12S-R34E-SEC13 U LTR 0 ~ LEA CTY -

### Sample ID: MW-1-D (H102103-01)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	4.00	10/03/2011	ND	108	108	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	440	5.00	09/30/2011	ND	222	92.5	240	2.97	

#### Sample ID: MW-1-S (H102103-02)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	440	4.00	10/03/2011	ND	108	108	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: HM	*		- El Courb	A. A. A. A. A. A. A. A. A. A. A. A. A. A	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	1220	5.00	09/30/2011	ND	222	92.5	240	2.97	

Cardinal Laboratories \*=Accredited Analyte

HAMIL NOTE: Lability and Danages. Carbon's biblity and clerks exclusive remarks for any claim unlarg, whether based in contract or tort, shall be limited to the amount paid by clerk for analyses. All claims, including those for negligance an any other cause whateness shall be desirated unlarge than the same whateness shall be desirated unlarge than the same whateness and the desirated for making the same interruptions, into of use, or loss of profits incomed by clarks, a shallander, a shillness or accordance and on a related to the performance of the services because in the same contract that the performance of the services because in the same contract that the performance of the services because in the same contract that the performance of the services because or the same contract that the performance of the services because or the same contract that the performance of the services because or the same contract that the performance of the services because or the same contract that the performance of the services because or the same contract that the performance of the services because or the performance of the services because or the performance of the services because or the performance of the services because the performance of the services because or the performance of the services because the performance of the services because the performance of the services because the performance of the services because the performance of the services because the performance of the services because the performance of

Celecy D. Keine



ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500C-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

ROSE NOTE: Labelly and Demagns. Cardinal's behildy and clerch exclusive records for any claim artery, effected in content or tart, shall be limited to the amount paid by clerc for analyses. All claims, including these for analyses are any other cause refractioners shall be deemed variety unless than the labell to record by Cardinal action to tarty (IE) days after completely of the application service. In no service dust Cardinal he labell to its including without installed, a service interest, including a content to the performance of the services hermalized by Cardinal, anguestics and claims are accounts artery out of or related to the performance of the services hermalized by Cardinal, anguestics and accounts artery out of or related to the performance of the services hermalized accounts are accounts artery out of our related to the performance of the services hermalized accounts and accounts and the account of the services accounts are accounts and the services accounts are accounted to the performance of the services accounts are accounted accounts for the services account and the services account accounts are accounted account to full extractions accounted accounts of the services accounted accounts are accounted account to full extractions accounted account to full extractions accounted account to full extractions accounted account to full extractions accounted account to full extractions accounted account to full extractions accounted

Celeg & Kreene

Celey D. Keene, Lab Director/Quality Manager

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December 28, 2011

ANDREW PARKER
R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 12/20/11 13:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene



R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

 Received:
 12/20/2011

 Reported:
 12/28/2011

 Project Name:
 STATE QE 13 #1

Sampling Date: Sampling Type: Sampling Condition: Sample Received By: 12/20/2011 Water Cool & Intact Jodi Henson

Project Number: NOT GIVEN
Project Location: T12S-R34E-SEC13 U LTR O ~ LEA CTY -

Sample ID: MW - 1 - D (H102752-01)

Chloride, SM4500CI-B mg/L Analyzed By: HM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride\* 64.0 12/21/2011 ND 108 100 3.77 4.00 108 TDS 160.1 Analyzed By: HM mg/L Reporting Limit Method Blank True Value QC Result Analyzed BS % Recovery RPD Qualifier TDS\* 487 5.00 12/21/2011 ND 232 96.7 240 4.31

#### Sample ID: MW - 1 - S (H102752-02)

Chioride, SM4500CI-B	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	420	4.00	12/21/2011	ND	108	108	100	3.77	
TDS 160.1	mg	/L	Analyze	d By: HM	*		E (Code)	3333233	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1140	5.00	12/21/2011	ND	232	96.7	240	4.31	

Cardinal Laboratories \*=Accredited Analyte

REAST NOTE: Labelly and Europea. Certifieds behilty and clerck exclusive remarks for any clean artising, whether based in content or tort, what he benefit to the amount paid by clean for analyses. All cleans, including those for negligence are any other cause whatevers shall be deemed varied unless made to writing and resonate by Certified within thiny (IC) days after completes of the application amount. In no award shall Certified be failed for including, without tentation, business interruptions, insee of use, or loss of profits incurred by cleans, a stabilished, affiliates or accounts acting out of or related to the performance of the sentence for many or complete and content of the sentence of the sentenc

Celecy D. Keine

Celey D. Keene, Lab Director/Quality Manager



ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Ci-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

ADMIN NOTE: Lability and Demagns. Cardinals behildly and clients excitate remark for any claim arising, whether based in content or tort, abid he broked to the amount paid by client for analyses. All claims, noticing those for negligence and my other cause whetheres that he demand whether tokes made to writing and restrict to the Content within 100 (CC) clays after completes of the applicable service. In no execut deal Content he belief for noticinal or consequences demands, within the content to the performance of the arrives between the content in the content of the arrives between the content of the content network relationship to the content of the content in the content of the content of the content network relationship.

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	LAB Order ID #	ANALYSIS REQUEST (Circle or Specify Method No.)				(6		S/1 (g	000	85.4 8, K) 8, K)	ss des S2608/ 82608/ 608 82608/ H H H H H H H H H H H H H H H H H H H	TCLP Metals TCLP Volsati TCLP Semi V TCLP Pestici SCAMS Vot. SCAMS Semi SCAMS SEMI SCAMS	N	×			Yes No	Yes No Additional Fax Number:		eo: andrew@rthicksconsult.com ierryf@yatespetroleum.com rozanne@valornet.com	AND REPORTED THE PROPERTY OF T



April 05, 2012

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 03/30/12 9:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

T12S-R34E-SEC13 U LTR 0 ~ LEA CTY -

Received: 03/30/2012

Reported: 04/05/2012

Project Name: STATE QE 13 #1

Sampling Date: Sampling Type: Sampling Condition: Sample Received By: 03/28/2012 Water Cool & Intact Jodi Henson

Project Number: NOT GIVEN

The Co. Course - Section because the con-

Sample ID: MW - 1 - D (H200759-01)

Project Location:

Chloride, SM4500CI-B	mg	/L	Analyze	d By: HM		18000			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	64.0	4.00	04/03/2012	ND	100	100	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	499	5.00	04/02/2012	ND	236	98.3	240	0.656	

#### Sample ID: MW - 1 - S (H200759-02)

Chioride, SM4500CI-B	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	420	4.00	04/03/2012	ND	100	100	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: HM	*		E16000		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1200	5.00	04/02/2012	ND	236	98.3	240	0.656	

Cardinal Laboratories \*=Accredited Analyte

REAST NOTE: Labelly and Europea. Certifieds behilty and clerck exclusive remarks for any clean artising, whether based in content or tort, what he benefit to the amount paid by clean for analyses. All cleans, including those for negligence are any other cause whatevers shall be deemed varied unless made to writing and resonate by Certified within thiny (IC) days after completes of the application amount. In no award shall Certified be failed for including, without tentation, business interruptions, insee of use, or loss of profits incurred by cleans, a stabilished, affiliates or accounts acting out of or related to the performance of the sentence for many or complete and content of the sentence of the sentenc

Celecy D. Keine



ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Ci-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

ADMIN NOTE: Lability and Demagns. Cardinals behildly and clients excitate remark for any claim arising, whether based in content or tort, abid he broked to the amount paid by client for analyses. All claims, noticing those for negligence and my other cause whetheres that he demand whether tokes made to writing and restrict to the Content within 100 (CC) clays after completes of the applicable service. In no execut deal Content he belief for noticinal or consequences demands, within the content to the performance of the arrives between the content in the content of the arrives between the content of the content network relationship to the content of the content in the content of the content of the content network relationship.

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101 East Marland - Hobbs, Madeo 68240	Tol (575) 393-2326 Fax (575) 363-2476	Company Name RT Hicks	Project Manager:	Andrew Parker	Address: (I	901 Rio Gra	Phone #:	#00c-007 (coc)	Project #:	State QE 13 #1	Project Location:	T12S-R34		#BY	(LAB USE )	HEDDING.		d							Relinquished by	Dorenne Johnson	Reinquished by	1	Sampler -



July 03, 2012

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 06/29/12 9:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene



R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

 Received:
 06/29/2012

 Reported:
 07/03/2012

 Project Name:
 STATE QE 13 #1

 Project Number:
 NOT GIVEN

Sampling Date: Sampling Type: Sampling Condition: Sample Received By: 06/28/2012 Water Cool & Intact Jodi Henson

Project Location: T12S-R34E-SEC13 U LTR O ~ LEA CTY -

Sample ID: MW - 1 - D (H201463-01)

Chloride, SM4500CI-B mg/L Analyzed By: HM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride\* 64.0 07/02/2012 ND 100 100 3.92 4.00 100 TDS 160.1 Analyzed By: AP mg/L Reporting Limit Method Blank True Value QC Result Analyzed BS % Recovery RPD Qualifier TDS\* 459 5.00 07/03/2012 ND 235 97.9 240 1.94

#### Sample ID: MW - 1 - S (H201463-02)

Chioride, SM4500CI-B	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	460	4.00	07/02/2012	ND	100	100	100	3.92	
TDS 160.1	mg	/L	Analyze	d By: AP	*		- FIGURE	A SAMELIA	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1250	5.00	07/03/2012	ND	235	97.9	240	1.94	

Cardinal Laboratories \*=Accredited Analyte

REAST NOTE: Labelly and Europea. Certifieds behilty and clerck exclusive remarks for any clean artising, whether based in content or tort, what he benefit to the amount paid by clean for analyses. All cleans, including those for negligence are any other cause whatevers shall be deemed varied unless made to writing and resonate by Certified within thiny (IC) days after completes of the application amount. In no award shall Certified be failed for including, without tentation, business interruptions, insee of use, or loss of profits incurred by cleans, a stabilished, affiliates or accounts acting out of or related to the performance of the sentence for many or complete and content of the sentence of the sentenc

Celecy D. Keine

Celey D. Keene, Lab Director/Quality Manager



ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Ci-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

ADMIN NOTE: Lability and Demagns. Cardinals behildly and clients excitate remark for any claim arising, whether based in content or tort, abid he broked to the amount paid by client for analyses. All claims, noticing those for negligence and my other cause whetheres that he demand whether tokes made to writing and restrict to the Content within 100 (CC) clays after completes of the applicable service. In no execut deal Content he belief for noticinal or consequences demands, within the content to the performance of the arrives between the content in the content of the arrives between the content of the content network relationship to the content of the content in the content of the content of the content network relationship.

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Page 4 of 4



October 09, 2012

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 10/03/12 14:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene



R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 10/03/2012 Reported: 10/09/2012

10/09/2012 STATE QE 13 #1

none given

T12S-R34E-SEC13 U LTR O ~ LEA CTY -

Sampling Date:

09/27/2012

Sampling Type: Water

Sampling Condition: Co Sample Received By: Co

Cool & Intact Celey D. Keene

The Mark Street, 1992 to 1994 to 1994 to 1994

Sample ID: MW - 1 - D (H202411-01)

Project Name:

Project Number:

Project Location:

mg/L

Analyzed By: AP

Chloride, SM450UCI-B	mg	/L	Analyze	d by: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	64.0	4.00	10/08/2012	ND	100	100	100	3.92	
TDS 160.1	mg	/L	Analyze	d By: AP		1111111	11/1		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	527	5.00	10/04/2012	ND	269	112	240	0.456	

#### Sample ID: MW - 1 - S (H202411-02)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	570	4.00	10/08/2012	ND	100	100	100	3.92	
TDS 160.1	mg	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1430	5.00	10/04/2012	ND	269	112	240	0.456	

Cardinal Laboratories \*=Accredited Analyte

REAST NOTE: Labelly and Europea. Certifieds behilty and clerck exclusive remarks for any clean artising, whether based in content or tort, what he benefit to the amount paid by clean for analyses. All cleans, including those for negligence are any other cause whatevers shall be deemed varied unless made to writing and resonate by Certified within thiny (IC) days after completes of the application amount. In no award shall Certified be failed for including, without tentation, business interruptions, insee of use, or loss of profits incurred by cleans, a stabilished, affiliates or accounts acting out of or related to the performance of the sentence for many or complete and content of the sentence of the sentenc



ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Ci-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

ADMIN NOTE: Lability and Demagns. Cardinals behildly and clients excitate remark for any claim arising, whether based in content or tort, abid he broked to the amount paid by client for analyses. All claims, noticing those for negligence and my other cause whetheres that he demand whether tokes made to writing and restrict to the Content within 100 (CC) clays after completes of the applicable service. In no execut deal Content he belief for noticinal or consequences demands, within the content to the performance of the arrives between the content in the content of the arrives between the content of the content network relationship to the content of the content in the content of the content of the content network relationship.

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Company Name: RT Hicks	mpany Name: RT Hicks Consultants		BILL TO Company: Yates Petroleum	Pet	Company atroleur	<sub>5</sub> E		Jen	PO# Jerry Fanning	POF	, g						A S	MAL	YSI	ANALYSIS REQUEST	20	EST						
Project Manager. Andrew Parker	res		Address:	× 45	Address:	(Street, City, Adesia, New Mexico 88210	82	w Me	Street vice 8	Street, City, Zip olco 88210	Zp)		_		_		2	-	5 -	<u></u>	_	-	_	-		_	-	_
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901 Rio Gra	901 Rio Grande Bivd NIV Suite F-142 ~ Albuq, NM 87104		(575) 748-1471	748	147	_										7.00			-								_	_
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Page 1 of 1



December 21, 2012

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 12/18/12 14:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

12/18/2012

Cool & Intact

Jodi Henson

Water



## Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Sampling Date:

Received: 12/18/2012

Reported: 12/21/2012

Project Name: STATE QE 13 #

12/21/2012 Sampling Type: STATE QE 13 #1 Sampling Condition: none given Sample Received By:

Project Location: T12S-R34E-SEC13 U LTR 0 ~ LEA CTY -

Sample ID: MW-1-D (H203043-01)

Project Number:

Chloride, 5M4500CI-B	mg	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	68.0	4.00	12/19/2012	ND	100	100	100	7.69	
TDS 160.1	mg	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	485	5.00	12/21/2012	ND	210	87.5	240	7.73	

#### Sample ID: MW-1-S (H203043-02)

Chioride, SM4500CI-B	mg	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	440	4.00	12/19/2012	ND	100	100	100	7.69	
TDS 160.1	mg	/L	Analyze	d By: AP	*		- FIGURE	100,000	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1200	5.00	12/21/2012	ND	210	87.5	240	7.73	

Cardinal Laboratories \*=Accredited Analyte

REAST NOTE: Labelly and Europea. Certifieds behilty and clerck exclusive remarks for any clean artising, whether based in content or tort, what he benefit to the amount paid by clean for analyses. All cleans, including those for negligence are any other cause whatevers shall be deemed varied unless made to writing and resonate by Certified within thiny (IC) days after completes of the application amount. In no award shall Certified be failed for including, without tentation, business interruptions, insee of use, or loss of profits incurred by cleans, a stabilished, affiliates or accounts acting out of or related to the performance of the sentence for many or complete and content of the sentence of the sentenc

Celecy D. Keine

Celey D. Keene, Lab Director/Quality Manager



ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Ci-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

ADMIN NOTE: Lability and Demagns. Cardinals behildly and clients excitate remark for any claim arising, whether based in content or tort, abid he broked to the amount paid by client for analyses. All claims, noticing those for negligence and my other cause whetheres that he demand whether tokes made to writing and restrict to the Content within 100 (CC) clays after completes of the applicable service. In no execut deal Content he belief for noticinal or consequences demands, within the content to the performance of the arrives between the content in the content of the arrives between the content of the content network relationship to the content of the content in the content of the content of the content network relationship.

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Cardinal Laboratories, Inc.    State   Company   States   Petroleum   Jerry Fanning   Address   105 S 4th Street - Areaia, New Mexico 88210   Project Name:   Yates   Petroleum   Jerry Fanning   Project Name:   Yates   Petroleum   Jerry Fanning   Project Name:   Yates   Petroleum   Jerry Fanning   Jersy   Jer
Cardinal Laboratories, Inc.   Pinger Petroleum   Jerry Fanning   Vates Petroleum   Jerry Fanning   Vates Petroleum   Jerry Fanning   Vates Petroleum   Jerry Fanning   Jerry
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Cardinal Labor  Cardinal Labor  Sanction  File F-142 - Albuq, NM 87104  File F-147 - Albuq, NM 8
Cardinal Labor  Cardinal Labor  Sanction  File F-142 - Albuq, NM 87104  Fax #  Frie F-142 - Albuq, NM 87104  Frie F-147 - Albuq, NM 87104  Frie
The F-142 ~ Abuq, NM 87104 (575) 748-1471  Fax # (575) 748-1477  F
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Page 4 of 4



April 04, 2013

ANDREW PARKER
R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 03/28/13 14:43.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)

Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celecy D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

 Received:
 03/28/2013

 Reported:
 04/04/2013

 Project Name:
 STATE QE 13 #1

 Project Number:
 NOT GIVEN

Sampling Date: Sampling Type: Sampling Condition: Sample Received By: 03/28/2013 Water Cool & Intact

Jodi Henson

Project Location:

T12S-R34E-SEC13 U LTR O ~ LEA CTY -

Sample ID: MW - 1 - D (H300749-01)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	64.0	4.00	04/01/2013	ND	108	108	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: AP		<u> </u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	480	5.00	04/03/2013	ND	240	100	240	1.92	

#### Sample ID: MW - 1 - S (H300749-02)

Chioride, SM4500CI-B	mg	/L	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	440	4.00	04/01/2013	ND	108	108	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: AP	*		- FIGURE	A. 10.100	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1240	5.00	04/03/2013	ND	240	100	240	1.92	

Cardinal Laboratories \*=Accredited Analyte

RANCE NOTE: Liability and Danages. Cardinal's biolity and disets exclusive received to any claim artists; disettle based in contact or tort, shall be broked to the amount paid by client for analyses. All claims, including those for suppliers are only other conservations of the application service. In no sent shall Cardinal be basin for including and received dynamics of the application of the application of the application of the services between the cardinal by Cardinal and the following actions broaders, and the preference of the services between the cardinal by Cardinal and the following action are not for the preference of the services between the cardinal and the following action are not followed by the preference of the services between the cardinal and the following account of the services between the cardinal analysis of the preference of the services between the cardinal analysis of the preference of the services between the cardinal analysis of the preference of the services between the cardinal analysis of the services between the cardinal analysis of the preference of the services between the cardinal analysis of the preference of the services between the cardinal analysis of the preference of the services between the cardinal analysis of the preference of the services between the cardinal analysis of the preference of the services between the cardinal analysis of the preference of the services between the cardinal analysis of the preference of the services between the cardinal analysis of the preference of the services between the cardinal analysis of the preference of the services between the cardinal analysis of the preference of the services between the cardinal analysis of the services and the cardinal analysis of the services and the cardinal analysis of the services and the cardinal analysis of the services and the cardinal analysis of the services and the cardinal analysis of the services and the cardinal analysis of the services and the services analysis of the services and the services ana

Celecy D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Ci-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

RANGE NOTE: Labelity and Damages. Cardwark biolity and cleans, including those for any clean artists, whether lased in contact or tort, shall be forted to the amount paid by clean for analyses. All cleans, including those for including only cardware shall be deemed water during an artist of the complete of the application artists. In or event shall Cardwal be faile for including or of contact water paids and the professional contact including, without including, artists or event shall cardware and the artists including a strong contact including, artists or events artists only to be performance of the artists included by Cardwar, regardless of whether each clean is not accommon or otherwise. Foundatives only to the samples identified above. This regardless design in full with written approach of Cardwar Laboratories.

Celeoy D. Keine

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July 09, 2013

ANDREW PARKER
R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 06/27/13 8:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celecy D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

 Received:
 06/27/2013

 Reported:
 07/09/2013

 Project Name:
 STATE QE 13 #1

 Project Number:
 NOT GIVEN

Sampling Type: Sampling Condition: Sample Received By:

Sampling Date:

Water Cool & Intact Jodi Henson

06/26/2013

Project Location: T12S-R34E-SEC13 U LTR O ~ LEA CTY -

Sample ID: MW-1-D (H301522-01)

Chloride, SM4500CI-B mg/L Analyzed By: DW Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier 68.0 Chloride\* 06/28/2013 ND 108 0.00 4.00 108 100 TDS 160.1 Analyzed By: AP mg/L Reporting Limit Method Blank True Value QC Result Analyzed BS % Recovery RPD Qualifier TDS\* 500 5.00 07/03/2013 ND 244 102 240 0.157

#### Sample ID: MW-1-S (H301522-02)

Chioride, SM4500CI-B	mg	/L	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	452	4.00	06/28/2013	ND	108	108	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: AP	*		- FIGURE	Academy	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1290	5.00	07/03/2013	ND	244	102	240	0.157	

Cardinal Laboratories \*=Accredited Analyte

RANCE NOTE: Liability and Danages. Cardinal's biblity and disets exclusive receipt for any claim artising claims in content or text, shall be broked to the amount paid by client for analyses. All claims, including those for negligence an any other cause velocities with the desired unique track in the content of the application service. In no seest shall Cardinal be liable for including activities below the professional interruptions, less of use, or loss of profes recurred by darket, attribute, affiliates or accessors artising out of or related to the performance of the services between the cardinal and only to the professional access or accessors artising out of or related to the performance of the services between the cardinal accessors artising out of our related to the performance of the services between the cardinal accessors are accessors artising out of or related to the performance of the services between the cardinal accessors are accessors are accessors and the performance of the services between the cardinal accessors are accessors are accessors and the performance of the services between the cardinal accessors are accessors are accessors and the performance of the services between the cardinal accessors are accessors are accessors and the performance of the services between the performance of the services between the performance of the services are accessors and the performance of the services are accessors and the performance of the services are accessors and the performance of the services are accessors and the performance of the services are accessors and the performance of the services are accessors and the performance of the services are accessors and the performance of the services are accessors and the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performanc

Celecy D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Ci-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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Celeoy D. Keine

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	(Circle One)	Mr. 6/27/2013 8/24	Br 6/27/2013 7:02	Date: Time:	200							MW-1-8	MW-1-d			FIELD CODE		112S-R34E-Sec13 Unit Letter O ~ Lea County - New Mexico	3#1		004	Grande Blvd NW Suite F-142 ~ Albuq, NM 8/104	(Street, City, Zip)	ker		Hicks Consultants	6	Cardinal		
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September 28, 2013

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 09/25/13 16:06.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)

Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celecy D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

 Received:
 09/25/2013

 Reported:
 09/28/2013

 Project Name:
 STATE QE 13 #1

 Project Number:
 NOT GIVEN

Sampling Date: Sampling Type: Sampling Condition: Sample Received By: 09/24/2013 Water Cool & Intact

Jodi Henson

Project Number: Project Location:

T12S-R34E-SEC13 U LTR O ~ LEA CTY -

Sample ID: MW - 1 - D (H302333-01)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	56.0	4.00	09/27/2013	ND	100	100	100	7.69	
TDS 160.1	mg	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	479	5.00	09/27/2013	ND	242	101	240	1.87	

#### Sample ID: MW - 1 - S (H302333-02)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	470	4.00	09/27/2013	ND	100	100	100	7.69	
TDS 160.1	mg	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1320	5.00	09/27/2013	ND	242	101	240	1.87	

Cardinal Laboratories \*=Accredited Analyte

RANCE NOTE: Liability and Danages. Cardinal's biblity and disets exclusive receipt for any claim artising claims in content or text, shall be broked to the amount paid by client for analyses. All claims, including those for negligence an any other cause velocities with the desired unique track in the content of the application service. In no seest shall Cardinal be liable for including activities below the professional interruptions, less of use, or loss of profes recurred by darket, attribute, affiliates or accessors artising out of or related to the performance of the services between the cardinal and only to the professional access or accessors artising out of or related to the performance of the services between the cardinal accessors artising out of our related to the performance of the services between the cardinal accessors are accessors artising out of or related to the performance of the services between the cardinal accessors are accessors are accessors and the performance of the services between the cardinal accessors are accessors are accessors and the performance of the services between the cardinal accessors are accessors are accessors and the performance of the services between the cardinal accessors are accessors are accessors and the performance of the services between the performance of the services between the performance of the services are accessors and the performance of the services are accessors and the performance of the services are accessors and the performance of the services are accessors and the performance of the services are accessors and the performance of the services are accessors and the performance of the services are accessors and the performance of the services are accessors and the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performanc

Celecy D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Ci-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

RANGE NOTE: Labelity and Damages. Cardwark biolity and cleans, including those for any clean artists, whether lased in contact or tort, shall be forted to the amount paid by clean for analyses. All cleans, including those for including only cardware shall be deemed water during an artist of the complete of the application artists. In or event shall Cardwal be faile for including or of contact water paids and the professional contact including, without including, artists or event shall cardware and the artists including a strong contact including, artists or events artists only to be performance of the artists included by Cardwar, regardless of whether each clean is not accommon or otherwise. Foundatives only to the samples identified above. This regardless design in full with written approach of Cardwar Laboratories.

Celeoy D. Keine

1	Sample - L	Relinquisbegby	Rozampe Johnson	Kathdringuties								7	,	LAB# (LABUSE ) (ONLY	State QE 13 #1 Project Location: T12S-R34E-Se	(505) 266-5004	901 Rio Grande	Address: (S	Andrew Parker	RT Hicks Consultants	(576) 389-2326 (575) 369-2476	101 East Markand - Hobbs, New Mexico Tel
	(Circle One) UPS - Bus - Other:	/Date: Time:	(19/25/2013 16:05	Date: Time:	B							MW-1-8	P-1-WM	FIELD CODE	State QE 13 #1 Yates Pet sed Location: State QE 13 #1 Yates Pet State QE 13 #1 State QE 13 #1 Yates Pet State QE 13 #1 Yates Pet State QE 13 #1	004	901 Rio Grande Blvd NW Suite F-142 ~ Albuq, NM 87104	(Street, City, Zip)	(er	nsultants	" Cardinal Laboratories, life.	
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	andrew@r lerryf@yat rozanne@	REMARKS: Email Results to:	L											BTEX 8260 TPH 418.1/TX1005 / TX1 PAH 8270C Total Metals Ag As Ba Cd TCLP Metals Ag As Ba Cd TCLP Volatiles TCLP Semi Volatiles TCLP Pesticides RCI	f Cr Pb Se Hg	6010E		7		ANALYSIS F	LAB Order ID #	CHAIN-OF-CUSTODY
	andrew@rthic jerryf@yatesp rozanne@yak	REMARKS: Email Results to:	Yes No	Yes										BTEX 8260 TPH 418.1/TX1005 / TX1 PAH 8270C Total Metals Ag As Ba Cd TCLP Metals Ag As Ba Cd TCLP Volatiles TCLP Semi Volatiles TCLP Pesticides RCI GC/MS Vol. 8260B/624	d Cr Pb Se Hg d Cr Pb Se H	6010E		7		ANALYSIS REC	LAB Order ID #	CHAIN-OF-CUSTODY ANI
	andrew@rthicksc lern/f@yatespetro rozanne@yalorne	REMARKS: Email Results to:	Yes No	Yes										BTEX 8260 TPH 418.1/TX1005 / TX1 PAH 8270C Total Metals Ag As Ba Cd TCLP Metals Ag As Ba Cd TCLP Volatiles TCLP Semi Volatiles TCLP Pesticides RCI	d Cr Pb Se Hg d Cr Pb Se H	6010E				ANALYSIS REQUE	LAB Order ID #	CHAIN-OF-CUSTODY AND A
	andrew@rthickscons jern/f@vatespetroleu rozanne@valornet.cc	REMARKS: Email Results to:	Yes No	Yes										BTEX 8260 TPH 418.1/TX1005 / TX1 PAH 8270C Total Metals Ag As Ba Cd TCLP Metals Ag As Ba Cd TCLP Volatiles TCLP Semi Volatiles TCLP Pesticides RCI GC/MS Vol. 8260B/624 GC/MS Semi. Vol. 8270C	d Cr Pb Se Hg d Cr Pb Se H	6010E		7		ANALYSIS REQUEST (Circle or Specify Method No.)	LAB Order ID #	CHAIN-OF-CUSTODY AND ANAI
	andrew@rthicksconsult.o lerryf@yatespetroleum.o rozanne@yalornet.com	REMARKS: Email Results to:	Yes No	Yes										BTEX 8260 TPH 418.1/TX1005 / TX1 PAH 8270C Total Metals Ag As Ba Cd TCLP Metals Ag As Ba Cd TCLP Volatiles TCLP Semi Volatiles TCLP Pesticides RCI GC/MS Vol. 8260B/624 GC/MS Semi. Vol. 82700 PCB's 8082/608 Pesticides 8081A/608 BOD, TSS, pH	d Cr Pb Se Hg d Cr Pb Se H	6010E				ANALYSIS REQUEST (Circle or Specify Method No.)	LAB Order ID #	CHAIN-OF-CUSTODY AND ANALYS
	andrew@rthicksconsult.com jernyf@yatespetrojeum.com rozanne@yalornet.com	REMARKS: Email Results to:	Yes No	Yes										BTEX 8260 TPH 418.1/TX1005 / TX1 PAH 8270C Total Metals Ag As Ba Cd TCLP Metals Ag As Ba Cd TCLP Volatiles TCLP Semi Volatiles TCLP Pesticides RCI GC/MS Vol. 8260B/624 GC/MS Semi. Vol. 82700 PCB's 8082/608 Pesticides 8081A/608	d Cr Pb Se Hg d Cr Pb Se H	6010E		7		ANALYSIS REQUEST (Circle or Specify Method No.)	LAB Order ID #	CHAIN-OF-CUSTODY AND ANALYSIS
	andrew@rthicksconsult.com lerryf@yatespetroleum.com rozanne@yalornet.com	REMARKS: Email Results to:	Yes	Yes										BTEX 8260 TPH 418.1/TX1005 / TX1 PAH 8270C Total Metals Ag As Ba Cd TCLP Metals Ag As Ba Cd TCLP Volatiles TCLP Semi Volatiles TCLP Pesticides RCI GC/MS Vol. 8260B/624 GC/MS Semi. Vol. 82700 PCB's 8082/608 Pesticides 8081A/608 BOD, TSS, pH Moisture Content	d Cr Pb Se Hg d Cr Pb Se Hj	6010E				ANALYSIS REQUEST (Circle or Specify Method No.)	LAB Order ID #	CHAIN-OF-CUSTODY AND ANALYSIS REC
	andrew@rthicksconsult.com jerryf@yatespetroleum.com rozanne@yalornet.com	REMARKS: Email Results to:	Yes No	Yes										BTEX 8260 TPH 418.1/TX1005 / TX1 PAH 8270C Total Metals Ag As Ba Cd TCLP Metals Ag As Ba Cd TCLP Volatiles TCLP Semi Volatiles TCLP Pesticides RCI GC/MS Vol. 8260B/624 GC/MS Semi. Vol. 82700 PCB's 8082/608 Pesticides 8081A/608 BOD, TSS, pH Moisture Content Cations (Ca, Mg, Na, K)	d Cr Pb Se Hg d Cr Pb Se Hj	6010E				ANALYSIS REQUEST (Circle or Specify Method No.)	LAB Order ID #	CHAIN-OF-CUSTODY AND ANALYSIS REQUE
	andrew@rthicksconsult.com jerryf@yatespetroleum.com rozanne@yalornet.com	REMARKS: Email Results to:	Yes No	Yes								×		BTEX 8260 TPH 418.1/TX1005 / TX1 PAH 8270C Total Metals Ag As Ba Cd TCLP Metals Ag As Ba Cd TCLP Volatiles TCLP Semi Volatiles TCLP Pesticides RCI GC/MS Vol. 8260B/624 GC/MS Semi. Vol. 82700 PCB's 8082/608 Pesticides 8081A/608 BOD, TSS, pH Moisture Content	d Cr Pb Se Hg d Cr Pb Se Hj	60108		,		ANALYSIS REQUEST (Circle or Specify Method No.)	LAB Order ID #	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
	andrew@rthicksconsult.com jerryf@vatespetrojeum.com rozanne@valornet.com	REMARKS: Email Results to:	Yes No	Yes							$\neg$	$\neg$	×	BTEX 8260 TPH 418.1/TX1005 / TX1 PAH 8270C Total Metals Ag As Ba Cd TCLP Metals Ag As Ba Cd TCLP Volatiles TCLP Semi Volatiles TCLP Pesticides RCI GC/MS Vol. 8260B/624 GC/MS Semi. Vol. 82700 PCB's 8082/608 Pesticides 8081A/608 BOD, TSS, pH Moisture Content Cations (Ca, Mg, Na, K) Anions (Cl, SO4, CO3, H	d Cr Pb Se Hg d Cr Pb Se Hg Cx625 HCO3)	60108				ANALYSIS REQUEST (Circle or Specify Method No.)	LAB Order ID #	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



January 09, 2014

ANDREW PARKER
R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 12/31/13 14:46.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)

Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celecy D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 12/31/2013

Reported: 01/09/2014

Project Name: STATE QE 13 #1

Sampling Date: Sampling Type: Sampling Condition: Sample Received By:

Water Cool & Intact Jodi Henson

12/30/2013

Project Number: none given Project Location: T12S-R34E-

T12S-R34E-SEC13 U LTR O ~ LEA CTY -

#### Sample ID: MW - 1 - D (H303168-01)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	52.0	4.00	01/08/2014	ND	104	104	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	465	5.00	01/09/2014	ND	458	86.9	527	2.93	

#### Sample ID: MW - 1 - S (H303168-02)

Chioride, SM4500CI-B	mg	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	436	4.00	01/08/2014	ND	104	104	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: AP			- FIRSTO	A. A. A. A. A. A. A. A. A. A. A. A. A. A	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1170	5.00	01/09/2014	ND	458	86.9	527	2.93	

Cardinal Laboratories \*=Accredited Analyte

RANCE NOTE: Liability and Danages. Cardinal's biblity and disets exclusive receipt for any claim artising claims in content or text, shall be broked to the amount paid by client for analyses. All claims, including those for negligence an any other cause velocities with the desired unique track in the content of the application service. In no seest shall Cardinal be liable for including activities below the professional interruptions, less of use, or loss of profes recurred by darket, attribute, affiliates or accessors artising out of or related to the performance of the services between the cardinal and only to the professional access or accessors artising out of or related to the performance of the services between the cardinal accessors artising out of our related to the performance of the services between the cardinal accessors are accessors artising out of or related to the performance of the services between the cardinal accessors are accessors are accessors and the performance of the services between the cardinal accessors are accessors are accessors and the performance of the services between the cardinal accessors are accessors are accessors and the performance of the services between the cardinal accessors are accessors are accessors and the performance of the services between the performance of the services between the performance of the services are accessors and the performance of the services are accessors and the performance of the services are accessors and the performance of the services are accessors and the performance of the services are accessors and the performance of the services are accessors and the performance of the services are accessors and the performance of the services are accessors and the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performanc

Celecy D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Ci-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

RANGE NOTE: Labelity and Damages. Cardwark biolity and cleans, including those for any clean artists, whether lased in contact or tort, shall be forted to the amount paid by clean for analyses. All cleans, including those for including only cardware shall be deemed water during an artist of the complete of the application artists. In or event shall Cardwal be faile for including or of contact water paids and the professional contact including, without including, artists or event shall cardware and the artists including a strong contact including, artists or events artists only to be performance of the artists included by Cardwar, regardless of whether each clean is not accommon or otherwise. Foundatives only to the samples identified above. This regardless design in full with written approach of Cardwar Laboratories.

Celeoy D. Keine

Delivered By: (Circle One)  Sampler - UPS - Bus - Other:	31/2	Relinguished by: Date: Time:	11						_	L-L-MM	t. City, Zip)  d NW Suite F-142 ~ Albuq, N  c13 Unit Letter O ~ Lea	Project Manager: Andrew Parker	RT Hicks Consultants	383-2476 Fax	nd - Hobbs, New Me	
Selple Condition		Received by:			-		1	6	$^{+}$	9	(G)rab or (C)omp	Ř	Yates			
Washington Stam		,						×	,	×	AIR SLUDGE	Address:	Yates Petroleum	_	ahorate	
Date: Time: 12/31/13 CHECKED 8X (Initials)		Date: Time:						-		1	HCL (2.40mi VOA) HNO3 NaHSO4 H <sub>2</sub> SO4 ICE (1-1Liter HDPE) NONE DATE (2013) SAMPL	(Street City, Zip)	Katie Parker	Ji ies, III	prior In	
44.41				+			+	12/30 14:00	12/00 13:05	49.00	DATE (2013) SAMPLING TIME			c.	,	
REMARKS: Email Results to:	Fax Results	Phone Results									MTBE 80218/602  BTEX 8260  TPH 418.1/TX1005 / TX1005 Extended (C35)  PAH 8270C  Total Metals Ag As Ba Cd Cr Pb Se Hg 60108/200.7	- ·			CHAIN	
	Yes	Yes						-			TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles TCLP Pessicides	(Circle or	ANAL	LAB Order ID#	CHAIN-OF-CUSTODY	
andrew@rthicksconsult.com Katie Parker [Katie@yatespetroleum.com] rozanne11@windstream.net	No Additio	No									PCI GC/MS Vol. 82608/624 GC/MS Semi. Vol. 8270C/625 PCB's 8082/608	Circle or Specify Method No.	ANALYSIS REQUEST	*	ODY AND	
consult.com lie@yatespe dstream.net	Additional Fax Number										Pesticides 8081A/608 300, TSS, pH Moisture Content	- No.)	EST		AND ANALYSIS REQUEST	Dana
troleum.co	ЭВГ						#	×	×	1	Cations (Ca, Mg, Na, K) Anions (Cl, SO4, CO3, HCO3) Total Dissolved Solids (160.1 / SM2540C)				REQUEST	
邑						1	$\pm$	×	×	+	Chlorides (325.3 / SM4500 B) Furn Around Time ~ 24 Hours	Ē	Page	940	of 4	1



April 09, 2014

ANDREW PARKER
R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 04/03/14 13:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)

Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celecy D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

 Received:
 04/03/2014

 Reported:
 04/09/2014

 Project Name:
 STATE QE 13 #1

 Project Number:
 NOT GIVEN

Sampling Date: Sampling Type: Sampling Condition: Sample Received By: 03/28/2014 Water Cool & Intact Jodi Henson

Project Location: T12S-R34E-SEC13 U LTR O ~ LEA CTY -

Sample ID: MW - 1 - D (H400997-01)

Chloride, SM4500CI-B mg/L Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride\* 60.0 04/04/2014 ND 100 0.00 4.00 100 100 TDS 160.1 Analyzed By: AP mg/L Reporting Limit Method Blank True Value QC Result Analyzed BS % Recovery RPD Qualifier TDS\* 524 5.00 04/07/2014 ND 93.7 527 0.00

#### Sample ID: MW - 1 - S (H400997-02)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	412	4.00	04/04/2014	ND	100	100	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: AP				A. A. A. A. A. A. A. A. A. A. A. A. A. A	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1110	5.00	04/07/2014	ND	494	93.7	527	0.00	

Cardinal Laboratories \*=Accredited Analyte

RANCE NOTE: Labelly and Danages. Cardina's labelly and directs exclusive recently for any claim artising should research in contract or tort, shall be listed to the amount paid by client for analyses. All claims, including those for negligence and any other consenses shall be deemed watered using make a second of the application service. In no sees shall Cardinal be labelle for including, without including, without including, believes interruptions, interruptions, interruptions, in or see, or loss of profits incomed by client, its substitutes, affiliates or accessors artising out of or related to the performance of the services inemated by Cardinal Section 2018.

See a substitute of the allowed contract inemated contracts only to the amplies identified above. This report shall except sponsor of Cardinal Laboratories.

Celecy D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Ci-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

RANGE NOTE: Labelity and Damages. Cardwark biolity and cleans, including those for any clean artists, whether lased in contact or tort, shall be forted to the amount paid by clean for analyses. All cleans, including those for including only cardware shall be deemed water during an artist of the complete of the application artists. In or event shall Cardwal be faile for including or of contact water paids and the professional contact including, without including, artists or event shall cardware and the artists including a strong contact including, artists or events artists only to be performance of the artists included by Cardwar, regardless of whether each clean is not accommon or otherwise. Foundatives only to the samples identified above. This regardless design in full with written approach of Cardwar Laboratories.

Celeoy D. Keine

101 East Marland - Hobbs, New (575) 303-2528 901 Rio Grande Blvd NW Suite RT Hicks Consultants Delivered By: State QE 13 #1 Andrew Parker T12S-R34E-Sec13 Unit Letter O ~ Lea (505) 266-5004 npany Name LAB USE LAB# ONLY 2650 (575) 380-247¢ (Street, City, Zip) UPS (Circle One) P-1-MM NW-1-8 Tul Fax Bus -Date FIELD CODE F-142-Other: me Cardinal Laboratories, Inc Albuq. NM 87104 County - New Mexico PER Received (G)rab or (C)omp 0 0 ilved By Yates Petroleum Yates Petroleum BILL TO Company (575) 748-1471 105 S 4th Street ~ Artesia No Ye roject Name # CONTAINERS g No WATER × Address. SOIL MATRIX ratory Staff) AIR SLUDGE HCL (2.40ml VOA) (Initials) CHECKED BY PRESERVATIVE Katie Parker HNO<sub>3</sub> Mexico 88210 Date 0816 METHOD NaHSO<sub>4</sub> Street, City, Zip H2SO4 Fault POP ICE (1-1Liter HDPE) Time: NONE SAMPLING 3/28 3/28 **DATE (2014)** 13.2 9:30 8:35 TIME 6 MTBE 8021B/602 REMARKS: Phone Results ax Results BTEX 8260 Email Results to: TPH 418.1/TX1005 / TX1005 Extended (C35) CHAIN-OF-CUSTODY AND ANALYSIS REQUEST PAH 8270C Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 LAB Order ID# TCLP Metals Ag As Ba Cd Cr Pb Se Hg Circle or Specify Method No. TCLP Volatiles ANALYSIS REQUEST SOA Yes TCLP Semi Volatiles andrew@rthicksconsult.com Katie Parker [Katie@yatespetroleum.com] rozanne11@windstream.net TCLP Pesticides RCI S No GC/MS Vol. 8260B/624 GC/MS Semi. Vol. 8270C/625 Additional Fax Number PCB's 8082/608 Pesticides 8081A/608 BOD, TSS, pH Moisture Content Cations (Ca, Mg, Na, K) Anions (CI, SO4, CO3, HCO3) Total Dissolved Solids (160.1 / SM2540C) Chlorides (325.3 / SM4500 B) Page 4 of 4 Turn Around Time ~ 24 Hours

Page

age 1 of

# **Appendix B**

# Analytical Report 299688

for

# R.T. Hicks Consultants, LTD

Project Manager: Randy Hicks

Pride Energy Company State QE 13 #1

20-MAR-08



12600 West I-20 East Odessa, Texas 79765

Texas certification numbers: Houston, TX T104704215

Florida certification numbers: Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675 Norcross(Atlanta), GA E87429

> South Carolina certification numbers: Norcross(Atlanta), GA 98015

> North Carolina certification numbers: Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America Midland - Corpus Christi - Atlanta





20-MAR-08

Project Manager: Randy Hicks R.T. Hicks Consultants, LTD 901 Rio Grande Blvd. NW, Suite F-142 Albuquerque, NM 87104

Reference: XENCO Report No: 299688
Pride Energy Company

Project Address: T12S-R34E, Section 1, Unit Letter L

#### Randy Hicks:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 299688. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 299688 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

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# Sample Cross Reference 299688



# R.T. Hicks Consultants, LTD, Albuquerque, NM

Pride Energy Company

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	Mar-13-08 12:35		299688-001



### Certificate of Analysis Summary 299688 R.T. Hicks Consultants, LTD, Albuquerque, NM

Project Name: Pride Energy Company

Project Id: State QE 13 #1 Date Received in Lab: Mar-14-08 05:16 pm

Contact: Randy Hicks Report Date: 20-MAR-08

Project Location: T12S-R34E, Section 1, Unit Letter L Project Manager: Brent Barron, II

53 EN 08109 11 11 15	Lab Id:	299688-001			
Analysis Requested	Fleid Id:	MW-1			
20147 EX	Depth:				
	Matric:	WATER			
	Sampled:	Mar-13-08 12:35			
Anions by EPA 300/300.1	Extracted:	****			
Amons by EFA 300/300.1	Analyzed:	Mar-15-08 10:29			
	Units/RL:	mg/L RL			
Chloride	500	4340 50.0			
Sulfate	1.0	566 50.0			
BTEX by EPA 8021B	Extracted:	Mar-19-08 10:00			
BIEA by EFA 6021B	Analyzed:	Mar-19-08 17:26			
	Units/RL:	mg/L RL			
Benzene		ND 0.0010			
Toluene		ND 0.0020			
Ethylbenzene		ND 0.0010			
m.p-Xylenes		ND 0.0020			
o-Xylene		ND 0.0010			
Xylenes, Total		ND			
Total BTEX		ND			
Metals per ICP by SW846 6010B	Extracted:				
metals per real by 5 more dolor	Analyzed:	Mar-17-08 16:36			
	Units/RL:	mg/L RL			
Calcium	- 10	506 0.100			
Magnesium		120 0.010			
Potassium		4.93 0.500			
Sodium		1060 0.500			
TDS by SM2540C	Extracted:		4		
LDS by Shi 2540C	Analyzed:	Mar-17-08 16:00			
	Units/RL:	mg/L RL			
Total dissolved solids		6040 5.00			
Total Alkalinity by EPA 310.1	Extracted:	Total Assessment Control			
Total Alkalility by ETA 510.1	Analyzed:	Mar-17-08 14:15			
	Units/RL:	mg/L RL			
Alkalinity, Total (as CaCO3)		450 4.00			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount involced for this work order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi

Brent Barron

Odessa Laboratory Director

# XENCO Laboratories

# Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- Outside XENCO'S scope of NELAC Accreditation

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4-Bromofluorobenzene

# Form 2 - Surrogate Recoveries



Project Name: Pride Energy Company

Work Order #: 299688 Project ID: State QE 13 #1

Lab Batch #: 717610 Sample: 299447-003 S/MS Batch: 1 Matrix: Water

SURROGATE RECOVERY STUDY Units: mg/L Control BTEX by EPA 8021B Amount Found Limits Amount Recovery Flags [A] [B] %R %R D Analytes 1,4-Diffuorobenzene 0.0307 0.0300 102 80-120 4-Bromofhorobenzene 0.0320 0.0300 107 80-120

Lab Batch #: 717610 Sample: 299447-003 SD / MSD Batch: 1 Matrix: Water

Units: mg/L SURROGATE RECOVERY STUDY Amount True Control BTEX by EPA 8021B Limits Found Amount Recovery Flags (B) %R %R [A] D Analytes 1,4-Diffuorobenzene 0.0309 0.0300 103 80-120

0.0322

0.0300

107

80-120

Lab Batch #: 717610 Sample: 299688-001/SMP Batch: 1 Matrix: Water

SURROGATE RECOVERY STUDY Units: mg/L Amount True Control BTEX by EPA 8021B Limits Flags Found Amount Recovery [B] %R %R [A] D Analytes 1,4-Diffmorobenzene 0.0329 0.0300 110 80-120 4-Bromofluorobenzene 0.0324 0.0300 108 80-120

Lab Batch #: 717610 Sample: 506150-1-BKS/BKS Batch: 1 Matrix: Water

SURROGATE RECOVERY STUDY Units: mg/L BTEX by EPA 8021B Amount True Control Limits Flags Found Amount Recovery [A]B %R %R [D]Analytes 1,4-Diffuorobenzene 0.0336 0.0300 112 80-120 4-Bromofluorobenzene 0.0300 0.0353 118 80-120

Lab Batch #: 717610 Sample: 506150-1-BLK / BLK Batch: 1 Matrix: Water

Units: mg/L SURROGATE RECOVERY STUDY Control BTEX by EPA 8021B Amount Found Recovery Limits Flags %R A B %R [D]Analytes 1,4-Diffuorobenzene 0.0327 0.0300 109 80-120 4-Bromoffporobenzene 0.0328 0.0300 109 80-120

All results are based on MDL and validated for QC purposes.

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution Surrogate Recovery [D] = 100 \* A / B



# Form 2 - Surrogate Recoveries



Project Name: Pride Energy Company

Work Order #: 299688 Project ID: State QE 13 #1

Lab Batch #: 717610 Sample: 506150-1-BSD/BSD Batch: 1 Matrix: Water

SURROGATE RECOVERY STUDY Units: mg/L Control Amount BTEX by EPA 8021B Flags Found Amount Recovery Limits [B] %R %R [A] [D] Analytes 1,4-Diffuorobenzene 0.0306 0.0300 102 80-120 4-Bromofhorobenzene 80-120 0.0331 0.0300 110

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# **Blank Spike Recovery**



Project Name: Pride Energy Company

Work Order #: 299688 Project ID: State QE 13 #1

 Lab Batch #: 717368
 Sample: 717368-1-BKS
 Matrix: Water

 Date Analyzed: 03/17/2008
 Date Prepared: 03/17/2008
 Analyst: WRU

Reporting Units: mg/L	Batch #: 1	BLANK/	BLANK SP	IKE REC	COVERY	STUDY
Total Alkalinity by EPA 310.1	Blank Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags
Analytes	[A]	(B)	Result [C]	%R [D]	%R	
Alkalinity Total (as CaCO3)	ND	200	172	86	80-120	8

Lab Batch #: 717419 Sample: 717419-1-BKS Matrix: Water

Date Analyzed: 03/15/2008 Date Prepared: 03/15/2008 Analyst: LATCOR

Reporting Units: mg/L	Batch #: 1	BLANK	BLANK SP	IKE REC	OVERY	STUDY
Anions by EPA 300/300.1	Blank Result	Spike Added	Blank Spike	Blank Spike %R	Control Limits	Flags
Analytes	[A]	(B)	Result [C]	[D]	%R	40.0000
Chloride	ND	10.0	9.45	95	85-115	
Sulfate	ND	10.0	8.71	87	90-110	L



# BS / BSD Recoveries



Project Name: Pride Energy Company

Work Order #: 299688

Analyst: SHE

Date Prepared: 03/19/2008

Project ID: State QE 13 #1 Date Analyzed: 03/19/2008

Lab Batch ID: 717610	Sample: 506150-1-BKS	3KS	Batch #: 1	#: 1					Matrix: Water	Water		
Units: mg.L.			BLAN	K/BLANK	SPIKE / B	LANKS	BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	ICATE 1	RECOVE	RY STUD	Į.	
BTEX by EPA 8021B	A 8021B	Blank Sample Result [A]	Spilke Added	Blank Spilke Result [C]	Blank Spilte %R [D]	Spille Spille Spille	Blank Spike Duplicate Result [F]	Bilk. Spk Dup. %R [G]	RPD %	Centrel Limits	Control Linds %RPD	Pag
Benzene		QN	0.1000	0.0867	87	0.1	0.0848	88	2	70-125	25	
Toluene		Q.	0.1000	89800	87	1.0	0.0648	88	7	70-125	25	
Ethylbenzene		QN	0.1000	91600	35	0.1	0.0685	68	3	71-129	25	
m.p-Xylanes		Q.	0.2000	0.1841	26	0.2	0.1774	68	4	70-131	23	
o-Xylene		QN	0.1000	86600	100	0.1	65600	%	4	71-133	R	



# Form 3 - MS Recoveries

Project Name: Pride Energy Company



Work Order #: 299688

Lab Batch #: 717419 Project ID: State QE 13 #1

Date Analyzed: 03/15/2008 Date Prepared: 03/15/2008 Analyst: LATCOR

QC-Sample ID: 299690-001 S Batch #: 1 Matrix: Water

Reporting Units: mg/L	MATI	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes	[A]	[B]	8700		0000000	
Chloride	4150	1000	5250	110	85-115	
Sulfate	415	1000	1400	99	90-110	



# Form 3 - MS / MSD Recoveries

Project Name: Pride Energy Company



Work Order #: 299688

Lab Batch ID: 717610

Date Analyzed: 03/19/2008

QC-Sample ID: 299447-003 S Date Prepared: 03/19/2008

Project ID: State QE 13 #1

Batch#: 1

Matrix: Water

mykon: Willyando	Date Lighting.		200		mind on the	200					
Units: mg/L		N	IATRIX SPIK	E/MAT	RIX SPI	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	TE REC	OVERY	STUDY		
BTEX by EPA 8021B	Parent	Sulke	Spiked Sample Spiked Besult Samule	Spilled	Softe	Parent Spiked Sample Spiked Sample Solke Solke Solke Sample Solke Sample Solke Sample Solke Sample Solke Sol	Spiked	RPD	Control Control	Control	Š

Reporting Units: ng/L.		W	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	E/MAT	RIX SPII	KE DUPLICA	TE REC	OVERY	STUDY		
BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spilled Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup.	RPD %	Control Limits	Control Linds %RPD	Plag
Berren	S	0.1000	0.1038	100	0.1000	0.1121	112	7	70-125	25	
Tohene	ND	0.1000	0.1030	1003	0.1000	0.1122	1112	**	70-125	25	
Ethylbenzene	ND ND	0.1000	0.1055	900	0.1000	0.1168	911	6	71-129	25	
m.p-Xylems	ND	0.2000	0.2079	104	0.2000	0.229	1115	01	70-131	25	
o-Xylene	ND	0.1000	0.1095	110	0.1000	0.1212	121	01	71-133	25	

Mentix Spike Duplicate Percent Recovery [G] = 100° (F-A)/II.

ND - Not Detected, J - Provet Below Reporting Limit, B - Present in Black, NR - Not Requested, I - Interference, NA - Not ApplicableN - See Narmine, BQL - Betmated Quantitation Limit Matrix Spike Percent Recovery [D] = 100 V(C-A)/B
Relative Percent Difference RPD = 200 (D-G)/(D+G)



# Sample Duplicate Recovery



Project Name: Pride Energy Company

Work Order #: 299688

Lab Batch #: 717419 Date Analyzed: 03/15/2008

QC-Sample ID: 299690-001 D

Project ID: State QE 13 #1

Date Prepared: 03/15/2008 Analyst: LATCOR

Batch #: 1 Matrix: Water

Reporting Units: mg/L	SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Anions by EPA 300/300.1  Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	4150	4140	0	20	
Sulfate	415	406	2	20	

Lab Batch #: 717329

Date Analyzed: 03/17/2008 Date Prepared: 03/17/2008 Analyst: LATCOR QC- Sample ID: 299654-001 D Batch #: 1 Matrix: Water

Reporting Units: mg/L SAMPLE / SAMPLE DUPLICATE RECOVERY

Metals per ICP by SW846 6010B  Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Calcium	45.1	45.8	2	25	
Magnesium	22.6	21.8	4	25	
Potassium	8.64	8.45	2	25	e e
Sodium	172	172	0	25	0

Lab Batch #: 717538

 Date Analyzed: 03/17/2008
 Date Prepared: 03/17/2008
 O3/17/2008
 Analyst: RBA

 QC-Sample ID: 299683-002 D
 Batch #: 1
 Matrix: Water

Reporting Units: mg/L SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte	(A)	[B]			
Total dissolved solids	978	972	1	30	

Lab Batch #: 717368

 Date Analyzed: 03/17/2008
 Date Prepared: 03/17/2008
 O3/17/2008
 Analyst: WRU

 QC- Sample ID: 299680-001 D
 Batch #: 1
 Matrix: Water

Reporting Units: mg/L SAMPLE / SAMPLE DUPLICATE RECOVERY

responding comment and a	order to the permette and other					
Total Alkalinity by EPA 310.1  Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag	
Alkalinity, Total (as CaCO3)	228	236	3	20		
Alkalinity, Carbonate (as CaCO3)	ND	ND	NC	20		
Alkalinity, Bicarbonate (as CaCO3)	ND	ND	NC	20		

Spike Relative Difference RPD 200 \* | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes.

314-08 47.15 whichers and oncoder TACT beab uberbil-eng TAT HBUR Pajed Locatos, T125-R34E, Section 1, Unit Letter L. NV bes of late? coc+ 50E13-1-0308 CHAIN OF CUSTODY RECOND AND ANALYSIS REGUEST \$161 d'1d9 Sample Cartainers Had?

Temperature Upon Receipt: -). S
Laboratory Comments: C-1880 shield benkezildishi Paped Neme: Pride Energy Company Preject #: State QE 13 #1 CERTIFICATION OF THE PROPERTY etons
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X 1 0 ( 120 Aust Email results to: n@rthicksconsult.com and gilbertvandeventen@suddenlink.net FOAR SC CA No. of Certainers pertures yazı XENCO Laboratories / Environmental Lab of Texas 1380 wet-10 tas Pear 420-60-173 Cense, tess 1995 ander Received by: Date Sampled somme Gil Van Deventer Conpany Name R. T. Hicks Consultants, Ltd. Company Anterest, 901 Rio Grande Blud NW Chy, State, Zip Code, Albuquerque NM 87104 FIRLD CODE Telephone No. 505-288-5004 Project Manager: Randy Hicks 889562 Special transcriber. All F (so use only)

#### Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-in

Client:	P.T. Hichs			
Date! Time.	3 H 08 415			
Lab ID#:	279688			
Initials	aL			

#### Sample Receipt Checklist

F1 Temperature of container/ cooler?	Yes	No	-1.5 °C
K2 Shipping container in good condition?	Yes	No	
Custody Seals intact on shipping container/ cooler?	469	No	Not Present
64 Custody Seals intact on sample bottles/ container?	Yes	No	Not Present?
P5 Chain of Custody present?	/63/	No	
26 Sample instructions complete of Chain of Custody?	Yea	No	
F7 Chain of Custody signed when resinquished/ received?	469	No	
AS Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont / Uid
#9 Container label(s) legible and intact?	(G)	No	Not Applicable
#10 Sample metric/ properties agree with Chain of Custody?	1 gs	No	
#11 Containers supplied by ELOT?	Yes	No	
#12 Samples in proper container/ bottle?	Yes	No	See Below
#13 Samples properly preserved?	Yes	No	See Below
#14 Sample bottles intact?	K@y	No	
#15 Preservations documented on Chain of Custody?	<b>19</b>	No	
#16 Containers documented on Chain of Custody?	Yas	No	
#17 Sufficient sample amount for indicated test(s)?	Yes	No	See Below
#18 All samples received within sufficient hold time?	Yes	No	See Below
#19 Subcontract of sample(s)?	Yes	No	,#63t Applicable
#20 VOC samples have zero headspace?	199	No	Not Applicable

#### Variance Documentation

Contact:		Contacted by:		Date/ Time:	
Regarding:					
Corrective Action Taker					
Check all that Apply	п	ion attached e-ma	l' fax		
		Nent understands	and would like to proceed id begun shortly after sam		

# Analytical Report 306330

for

## R.T. Hicks Consultants, LTD

Project Manager: Andrew Parker

Pride Energy Company State QE 13 # 1

27-JUN-08



12600 West I-20 East Odessa, Texas 79765

Texas certification numbers: Houston, TX T104704215

Florida certification numbers: Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675 Norcross(Atlanta), GA E87429

> South Carolina certification numbers: Norcross(Atlanta), GA 98015

North Carolina certification numbers: Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America Midland - Corpus Christi - Atlanta





27-JUN-08

Project Manager: Andrew Parker R.T. Hicks Consultants, LTD 901 Rio Grande Blvd. NW, Suite F-142 Albuquerque, NM 87104

Reference: XENCO Report No: 306330 Pride Energy Company

Project Address: T12S-R34E, Section 13, Unit Letter O

#### Andrew Parker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 306330. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 306330 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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# Sample Cross Reference 306330



### R.T. Hicks Consultants, LTD, Albuquerque, NM

Pride Energy Company

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	w	Jun-19-08 07:20		306330-001
MW-1 Deep	W	Jun-19-08 08:05		306330-002



### Certificate of Analysis Summary 306330 R.T. Hicks Consultants, LTD, Albuquerque, NM

Project Name: Pride Energy Company

Project Id: State QE 13 # 1 Date Received in Lab: Jun-20-08 05:00 pm

Contact: Andrew Parker Report Date: 27-JUN-08

Project Location: T12S-R34E, Section 13, Unit Letter O Project Manager: Brent Barron, II

The second second	Lab Id:	306330-0	01	306330-0	02	
Analysis Requested	Fleid Id:	MW-I	200	MW-I De	ер	
3.50	Depth:					
	Matrix:	WATER	1	WATER		
	Sampled:	Jun-19-08 0	7:20	Jun-19-08 0	8:05	
Alkalinity by SM2320B	Extracted:	- 11 11 1			1	7
Alkalility by SM2520B	Analyzed:	Jun-26-08 1	0:45	Jun-26-08 1	0:45	
	Units/RL:	mg/L	RL	mg/L	RL	
Alkalinity, Total (as CaCO3)	500	236	4.00	180	4.00	
Alkalinity, Bicarbonate (as CaCO3)		236	4.00	180	4.00	
Alkalinity, Carbonate (as CaCO3)	00000	ND	4.00	ND	4.00	
Inorganic Anions by EPA 300	Extracted: Analyzed: Units/RL:	Jun-23-08 0 mg/L	8:50 RL	Jun-23-08 0 mg/L	8:50 RL	
Chloride	200	1760	100	66.7	12.5	
Sulfate		348	100	132	12.5	
Metals per ICP by SW846 6010B	Extracted: Analyzed: Units/RL:	Jun-23-08 1 mg/L	1:59 RL	Jun-23-08 1 mg/L	1:59 RL	
Calcium		288	0.100	65.8	0.100	
Magnesium		70.4	0.010	15.6	0.010	
Potassium		2.88	0.500	2.76	0.500	
Sodium		751	0.500	63.4	0.500	
TDS by SM2540C	Extracted:  Analyzed:  Units/RL:	Jun-23-08 1 mg/L	6:30 RL	Jun-23-08 1 mg/L	6:30 RL	
Total dissolved solids	1.0	3310	5.00	464	5.00	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount involced for this work order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi

Brent Barron

Odessa Laboratory Director

# XENCO Laboratories

### Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- Outside XENCO'S scope of NELAC Accreditation

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# **Blank Spike Recovery**



Project Name: Pride Energy Company

Work Order #: 306330 Project ID: State QE 13 # 1

 Lab Batch #: 726566
 Sample: 726566-1-BKS
 Matrix: Water

 Date Analyzed: 06/26/2008
 Date Prepared: 06/26/2008
 Analyst: WRU

Reporting Units: mg/L	Batch #: 1	BLANK/	BLANK SP	KE REC	OVERY	STUDY
Alkalinity by SM2320B  Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Alkalinity, Bicarbonate (as CaCO3)	ND	200	176	88	80-120	3

Lab Batch #: 726337 Sample: 726337-1-BKS Matrix: Water

Date Analyzed: 06/23/2008 Date Prepared: 06/23/2008 Analyst: LATCOR

Reporting Units: mg/L	Batch #: 1 BLANK /BLANK SPII			KE RECOVERY STUDY		
Inorganic Anions by EPA 300	Blank Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags
Analytes	[A]	(B)	Result [C]	%R [D]	%R	-0.00000
Chloride	ND	10.0	11.6	116	80-120	
Sulfate	ND	10.0	12.0	120	80-120	S



### Form 3 - MS Recoveries

Project Name: Pride Energy Company



Work Order #: 306330 Lab Batch #: 726337

Project ID: State QE 13 # 1

Date Analyzed: 06/23/2008 Date Prepared: 06/23/2008 Analyst: LATCOR

QC-Sample ID: 306329-001 S Batch #: 1 Matrix: Water

Reporting Units: mg/L	MATRIX / MATRIX SPIKE RECOVERY STUDY							
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag		
Chloride	2600	500	3270	134	80-120	x		
Sulfate	477	500	1080	121	80-120	X		



## Sample Duplicate Recovery



Project Name: Pride Energy Company

Work Order #: 306330

Lab Batch #: 726566 Project ID: State QE 13 # 1

 Date Analyzed: 06/26/2008
 Date Prepared: 06/26/2008
 Analyst: WRU

 QC- Sample ID: 306329-001 D
 Batch #: 1
 Matrix: Water

Reporting Units: mg/L	SAMPLE / SAMPLE DUPLICATE RECOVERY						
Alkalinity by SM2320B  Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag		
Alkalinity, Bicarbonate (as CaCO3)	190	180	20	20			
Alkalinity, Carbonate (as CaCO3)	ND	ND	20	20			
Alkalinity, Total (as CaCO3)	190	180	20	20			

Lab Batch #: 726337

Date Analyzed: 06/23/2008 Date Prepared: 06/23/2008 Analyst: LATCOR QC-Sample ID: 306329-001 D Batch #: 1 Matrix: Water

Reporting Units: mg/L SAMPLE / SAMPLE DUPLICATE RECOVERY Parent Sample Sample Inorganic Anions by EPA 300 RPD Result Duplicate Limits Flag Result %RPD [A] [B] Analyte Chloride 2600 2590 20 20 Sulfate 477 463 20 20

Lab Batch #: 726094

Date Analyzed: 06/23/2008 Date Prepared: 06/23/2008 Analyst: LATCOR QC- Sample ID: 306329-001 D Batch #: 1 Matrix: Water

Reporting Units: mg/L	SAMPLE / SAMPLE DUPLICATE RECOVERY						
Metals per ICP by SW846 6010B  Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag		
Calcium	ND	603	NC	25			
Magnesium	120	116	3	25			
Potassium	4.41	4.85	10	25			
Sodium	564	575	2	25			
Fluoride	ND	ND	NC	20			

Lab Batch #: 726342

 Date Analyzed: 06/23/2008
 Date Prepared: 06/23/2008
 O6/23/2008
 Analyst: WRU

 QC- Sample ID: 306329-001 D
 Batch #: 1
 Matrix: Water

Reporting Units: mg/L	SAMPLE / SAMPLE DUPLICATE RECOVERY						
TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag		
Analyte	00.85	[B]	1				
Total dissolved solids	5700	5580	2	30			

Spike Relative Difference RPD 200 \* | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. XENCO Laboratories / Environmental Lab of Texas
Table Man New Proc. 423-437-19

CHAIN OF CUSTOBY MICORD AND ANALYSIS PEGUES?

×× Project Leading T125-R24E, Section 13, Unit Letter O. IAT bedraps MANUSANS TAT HOUR 16 pc ce 17 ce 1 S.O willabals & seals SPLP 1919 SPLP 1919 Okorde Propertiesse Pride Energy Company Sarryte Container Vistalit Sarryte Container Vistality Satemptory Contraints Property State QE 13 811 Hedy 1 DECLARATION OF THE PARTY OF THE 8 300 ķ Harris Angeles final Report to section@thicksconsul.com ğ 8 Address: 30 the Crack flut With an Frid. Chy New, Jly Cude: Albuquerque, NM 87104 Gergeny Name, R. T. Hicks Consultants Service Restance Johnson (575) 831-9310 sozannedwalomet com Proper Manager: Andrew Parker Talephone No. 505-365-5004 Email results to: androw@rthicksconsult.com and mzanna@valorret.com andrea fam in the 7.20 8.05 the part by \$1.00 90/51/90 06/19/08 Russian by CC 1 3962/9 Ē Billing Assess III'ns Duran Bacher Salan Frid the less by their Absolutionary NM 87154 Company Name R. T. Hicks Congultants Southquette. gotter@ftstocoud.com MW-1 Deep FELDCODE Sent tweez to Archew Parker MW-1 Ingeneral 505-308-5004 2 304330 Section and section A1 8 34 440 1751 20 Taller of the

### Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In.

Cherri	R.T. Hicks
Date/ Time:	6:20:00 17:00
ab ID # :	304550
ntight	at

### Sample Receipt Checklist

+1	Temperature of contained cooler?	Yes	No	5.0 °C
2	Shipping container in good condition?	-Y65>	No	
F3.	Ovstody Sasts intact on shipping contained cooler?	Yes	No	"Mot Present
14	Custody Seals intact on sample bottles/ container?	drago.	No	Not Present
10	Chain of Custody present?	Kaz)	No	
PG.	Sample instructions complete of Chain of Custody?	Yes?	No	
87	Chain of Custody signed when relinquished/ received?	600	No	
40	Chain of Custody agrees with sample label(s)?	(05)	No	ID written on Cont./ Ltd
99	Container label(s) lagible and intact?	48K	Na	Not Applicable
#10	Sample matrix' properties agree with Chain of Custody?	Yes	No.	
811	Containers supplied by ELOT?	(86)	No	
#12	Samples in proper container/ bottle?	Kes	No	See Below
#13	Samples properly preserved?	100	No	See Below
+14		T.066	No	
mn5	Preservations decumented on Chain of Custody?	Cox	No	
M15	The state of the s	Vas	No	
#17	Sufficient sample amount for indicated test(s)?	Y65	No	See Briow
<b>#16</b>	All samples received within sufficient hold time?	(60)	No	See Balow
<b>#1</b> 9	Subsonitact of sample(s)?	Yes	No	Mil Applicable
120	VDC samples have zero headspace?	Yes	No	Wol Applicable

#### Variance Documentation

Contact		Contacted by:	Date/Time:	
Regarding:				
Corrective Action Taker				
Check of that Apply	o d	See attached e-mel/ fex Client understands and would like to pr Cooling process had begun shortly after		



Receiving Date: 09/11/08 Reporting Date: 09/17/08

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O - LEA CO., NM

Lab Number: H15916-1

Sample ID: MW-1-D

Analysis Date: 09/13/08 Sampling Date: 09/09/08 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: ZL

VOLATILES (mg/L)	Sample Result H15916-1	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	<0.001	0.052	104	0.050
Toluene	< 0.001	< 0.001	0.048	96.0	0.050
Ethylbenzene	< 0.001	< 0.001	0.050	100	0.050
m,p-Xylene	< 0.002	< 0.002	0.098	98.4	0.100
o-Xylene	< 0.001	< 0.001	0.052	103	0.050

	% RECOVERY	
Dibromofluoromethane	102	
Toluene-d8	111	
Bromofluorobenzene	109	

METHODS: EPA SW-846 8260

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES/

Chemist



Receiving Date: 09/11/08 Reporting Date: 09/17/08

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~ LEA CO., NM

Lab Number: H15916-1 Sample ID: MW-1-D Analysis Date: 09/13/08 Sampling Date: 09/09/08 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: ZL

VOLATILES (mg/kg)	Sample Result H15916-1	Method Blank	QC	%Recov.	True Value QC
Naphthalene	<0.001	<0.001	0.055	109	0.050

#### % RECOVERY

	NO INCOMPLIA	
Dibromofluoromethane	102	
Toluene-d8	111	
Bromofluorobenzene	109	

METHODS: EPA SW-846 8260

Chemist



Receiving Date: 09/11/08 Reporting Date: 09/17/08

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~ LEA CO., NM

Lab Number: H15916-2

Sample ID: MW-1-S

Analysis Date: 09/13/08 Sampling Date: 09/09/08 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: ZL

VOLATILES (mg/L)	Sample Result H15916-2	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	< 0.001	0.052	104	0.050
Toluene	< 0.001	< 0.001	0.048	96.0	0.050
Ethylbenzene	< 0.001	< 0.001	0.050	100	0.050
m,p-Xylene	< 0.002	< 0.002	0.098	98.4	0.100
o-Xylene	< 0.001	< 0.001	0.052	103	0.050

	% RECOVERY	
Dibromofluoromethane	103	
Toluene-d8	106	
Bromofluorobenzene	103	

METHODS: EPA SW-846 8260

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist



Receiving Date: 09/11/08 Reporting Date: 09/17/08

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~ LEA CO., NM

Lab Number: H15916-2 Sample ID: MW-1-S Analysis Date: 09/13/08 Sampling Date: 09/09/08 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: ZL

VOLATILES (mg/kg)	Sample Result H15916-2	Method Blank	QC	%Recov.	True Value QC
Naphthalene	<0.001	<0.001	0.055	109	0.050

### % RECOVERY

	701120012111	
Dibromofluoromethane	103	
Toluene-d8	106	
Bromofluorobenzene	103	

METHODS: EPA SW-846 8260

Chamiet



Receiving Date: 09/11/08 Reporting Date: 09/16/08

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~

LEA COUNTY - NEW MEXICO

Sampling Date: 09/09/08 Sample Type: WATER

Sample Condition: COOL & INTACT

160.1 SM4500-CI-B

Sample Received By: ML

Analyzed By: HM

(mg/L	TDS (mg/L)	SAMPLE ID	LAB NO.
09/12/08	09/12/08	:	Analysis Date
64	542	MW-1-d	H15916-1
1,000	2,590	MW-1-s	H15916-2
490	NR	N.	Quality Contro
	NR NR		True Value Q
500		<u> </u>	
98.0	NR		% Recovery
< 0.1	NR	ent Difference	Relative Perce

Chemist S. Mono

METHOD: EPA 600/4-79-020

and Freeholder	Con Frank Market   Linkship Mines												Г	L		콩	CHAIN-OF-CUSTODY	S.	5	Į.	N V	AND	ANA	ANAI VSIS		REGUEST	E	-	
Mexico	Metico 88200 Cardinal Laboratories	L S	_	3	2	2	ţ	Ξ	P	-	2	ی			1		ı	1				1		1				. [	1
Tel (575) Fax (575)	990-2476			3	2	2	3		2			;					ב	LAB Order ID #	der	#						1			
Company Name RT Hicks	mpany Name. RT Hicks Consultants	Г	BILL TO Company: Pride Energy Company / Matt Pride	, ii	Company:	i 0	Nan Vuen	2	#6	rid.	Ž .		Г					*	Į₹	.≺S	ANALYSIS REQUEST	교	EST	١.					
Project Manager	2	Τ	2	il.	Address	6			lg)	eet, C	Street, City, Zip		Τ					õ	ego.	Spi	Circle or Specify Method No.)	Vetho	e No	_					
Andrew Parker	arker		P. O. Bax 710950 ~	Z XD	1085		Tulsa, OK 74170-1950	× 74	170	1950					_	_		_		_	_		_	_	_	_		_	_
Address:	(Street, City, Zip)	Γ		Γ	Phone#:			ı	l	ľ	Fax#:		Γ		_	_		_		_			_	_				_	
901 Rio Gra	901 Rio Grande Blvd NW Suite F-142 ~ Albug, NM 87104	8	(918) 524-9200	524	-92	8					918)	(918) 524-9292	282		_	_	7.00	_		_			_					_	
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Receiving Date: 12/10/08 Reporting Date: 12/11/08

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~

LEA COUNTY - NEW MEXICO

Sampling Date: 12/08/08 Sample Type: WATER

Sample Condition: COOL & INTACT

160.1 SM4500-CI-B

Sample Received By: CK Analyzed By: HM/TR

LAB NO.	SAMPLE ID	TDS (mg/L)	(mg/L)
Analysis Date		12/10/08	12/11/08
H16487-1	MW-1-d	515	60
H16487-2	MW-1-s	3,510	1,500
O		NO	500
Quality Contro		NR	500
True Value Q	C	NR	500
% Recovery		NR	100
Relative Pero	ent Difference	NR	< 0.1

Chemist Mount

METHOD: EPA 600/4-79-020



Receiving Date: 12/10/08 Reporting Date: 12/17/08

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~ LEA CO., NM

Lab Number: H16487-1

Sample ID: MW-1-D

Analysis Date: 12/16/08 Sampling Date: 12/08/08 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: CK

Analyzed By: ZL

VOLATILES (mg/L)	Sample Result H16487-1	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	<0.001	0.055	110	0.050
Toluene	< 0.001	< 0.001	0.056	112	0.050
Ethylbenzene	< 0.001	< 0.001	0.056	112	0.050
m,p-Xylene	< 0.002	< 0.002	0.119	119	0.100
o-Xylene	< 0.001	< 0.001	0.055	110	0.050

### % RECOVERY

Dibromofluoromethane	103	
Fluorobenzene	108	
Toluene-d8	99.2	
4-Bromofluorobenzene	84.7	

METHODS: EPA SW-846 8260

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist



Receiving Date: 12/10/08 Reporting Date: 12/17/08

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~ LEA CO., NM

Lab Number: H16487-1 Sample ID: MW-1-D Analysis Date: 12/16/08 Sampling Date: 12/08/08 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: CK

Analyzed By: ZL

VOLATILES (mg/L)	Sample Result H16487-1	Method Blank	QC	%Recov.	True Value QC
Naphthalene	<0.001	<0.001	0.059	118	0.050

#### % RECOVERY

	701120012111	
Dibromofluoromethane	103	
Fluorobenzene	108	
Toluene-d8	99.2	
4-Bromofluorobenzene	84.7	

METHODS: EPA SW-846 8260

Chemist



Receiving Date: 12/10/08 Reporting Date: 12/17/08

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~ LEA CO., NM

Lab Number: H16487-2 Sample ID: MW-1-S Analysis Date: 12/16/08 Sampling Date: 12/08/08 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: CK

Analyzed By: ZL

	Sample Result	Method			True Value
VOLATILES (mg/L)	H16487-2	Blank	QC	%Recov.	QC
Benzene	<0.001	< 0.001	0.055	110	0.050
Toluene	< 0.001	< 0.001	0.056	112	0.050
Ethylbenzene	< 0.001	< 0.001	0.056	112	0.050
m,p-Xylene	< 0.002	< 0.002	0.119	119	0.100
o-Xylene	< 0.001	< 0.001	0.055	110	0.050

### % RECOVERY

	70 1120012111	
Dibromofluoromethane	116	
Fluorobenzene	115	
Toluene-d8	96.0	
4-Bromofluorobenzene	69.0	

METHODS: EPA SW-846 8260

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist



Receiving Date: 12/10/08 Reporting Date: 12/17/08

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~ LEA CO., NM

Lab Number: H16487-2 Sample ID: MW-1-S

Analysis Date: 12/16/08 Sampling Date: 12/08/08 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: CK

Analyzed By: ZL

VOLATILES (mg/L)	Sample Result H16487-2	Method Blank	QC	%Recov.	True Value QC
Naphthalene	<0.001	<0.001	0.059	118	0.050

#### % RECOVERY

Dibromofluoromethane	116	
Fluorobenzene	115	
Toluene-d8	96.0	
4-Bromofluorobenzene	69.0	

METHODS: EPA SW-846 8260

Chemist

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	LAB Order ID #	ANALYSIS REQUEST (Circle or Specify Method No.)		PH 418.1/TX1005 / TX1005 Extended (C35) AH 8270C CHN State Ag As Ba Cd Cr Pb Se Hg CLMS Semi Volatiles CLMS Semi Volatiles CLMS Semi Volatiles CLMS Semi Volatiles CLMS Semi Volatiles CLMS Semi Volatiles CLMS Semi Volatiles					TPH 418.1/T) TPH 418.1/T) Total Metals TCLP Metals TCLP Volatile TCLP Semi Vi TCLP Semi Vi TCLP Pesticio TCMS Vol. 8 TCLP Semi Vi TCLP Semi Vi TCLP Pesticio TCLP Semi Vi TCLP Semi Vi TCLP Pesticio TCLP Pesticio TCLP Semi Vi TCLP Pesticio TCLP Semi Vi TCLP Pesticio TCMS Vol. 8 TCMS	××	××				Phone Results Yes No	Fax Results Yes No Additional Fax Number:	REMARKS:	Email Results to:	andrew@rthicksconsult.com mattp@pride-energy.com rozanne@valomet.com			
and I abound tout Inc	Cardinal Laboratories, Inc.	ompany / Ma	P. O. Box 710950 ~ Tulsa, OK 74170-1950	Phone#: Facet: 7104 (918) 524-9292	Fax#	Project Name:	Pride Energy Company Sampler Signetation, NegamerJohnson (575)831-9310	1	MATRIX PRESERVATIVE SAMPLING	ON)	(3) rab or (C)  KATER  SULDGE  SULDGE  SULDGE  CONTAIN  CATE (2008)	G 3 X 2 1 1 12-8 8:40	G 3 X 2 1 1 12-8 9:30				Received by: // Date: Time:	James Minson 12 10-58 7:01	(Laboratory Staff) Date: Time:	111/4 49EAR 12/10/198 11:30	Sample Condition  Ves Ves Ves (Initials)	
101 East Marfand - Hobbs, New Marrier, 88340	980-2326	Company Name: RT Hicks Consultants	Andrew Parker	Address: (Street, City, Zip) 901 Rio Grande Blvd NW Suite F-142 ~ Albuq, NM 87104	Phone #: (505) 266-5004	Project #:	State QE 13 #1 Project Location:	T12S-R34E-Sec13 Unit Letter O ~ Lea County - New Mexico		LAB#	(LAB USE)	/ MW-1-d	2 MW-1-s				Ē	Rozande Johnson 12-10-08 7:00	ReInquished by: Date: Time:	3	Delivered By: (Circle One) Sampler - UPS - Bus -/Other.)	



Receiving Date: 03/19/09

Reporting Date: 03/23/09

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

LEA COUNTY - NEW MEXICO

Sampling Date: 03/18/08

Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~ Analyzed By: HM/TR

(mg/L	TDS (mg/L)	SAMPLE ID	LAB NO.
03/20/09	03/20/09	:	Analysis Date:
60	498	MW-1-d	H17096-1
1,380	3,360	MW-1-s	H17096-2
500	NR	ni e	Quality Contro
500	NR		True Value Q0
100	NR		% Recovery
< 0.1	0.6	ent Difference	Relative Perce

METHOD: EPA 600/4-79-020 160.1 SM4500-CI-B

Chemist



Receiving Date: 03/19/09 Reporting Date: 03/25/09

Project Number: STATE QE 13#1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM Sample ID: MW-1-D Lab Number: H17096-1 Analysis Date: 03/24/09 Sampling Date: 03/18/09 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result H17096-1	Method Blank	QC	%Recov.	True Value QC
Benzene	< 0.001	< 0.001	0.023	92.0	0.025

Benzene	< 0.001	< 0.001	0.023	92.0	0.025
Toluene	< 0.001	< 0.001	0.024	96.0	0.025
Ethylbenzene	< 0.001	< 0.001	0.027	108	0.025
m+p - Xylene	<0.002	< 0.002	0.058	116	0.050
o-Xylene	< 0.001	< 0.001	0.024	96.0	0.025

% Recovery

	70.1000.013	
Dibromofluoromethane	83.5	
Fluorobenzene	84.8	
Toluene-d8	106	
4-Bromofluorobenzene	81.9	

METHODS: EPA SW-846-8260.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,

AND TOTAL XYLENES.

Chemist



Receiving Date: 03/19/09 Reporting Date: 03/25/09

Project Number: STATE QE 13#1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM

Sample ID: MW-1-D Lab Number: H17096-1 Analysis Date: 03/24/09 Sampling Date: 03/18/09 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: ZL

BTEX 8260 (mg/L)

Sample Result

Method

True Value

H17096-1

Blank

QC %Recov.

QC

Naphthalene	<0.001	<0.001	0.027	108	0.025
	96	Recovery			
Dibromofluoromethane		83.5			
Fluorobenzene		84.8			
Toluene-d8		106			
4-Bromofluorobenzene		81.9			

METHODS: EPA SW-846-8260.

Chemist

03/25/09



Receiving Date: 03/19/09 Reporting Date: 03/25/09

Project Number: STATE QE 13#1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM

Sample ID: MW-1-S Lab Number: H17096-2 Analysis Date: 03/24/09 Sampling Date: 03/18/09 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: ZL

BTEX - 8260 (mg/L)	Sample Result H17096-2	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	<0.001	0.023	92.0	0.025
Toluene	< 0.001	< 0.001	0.024	96.0	0.025
Ethylbenzene	< 0.001	<0.001	0.027	108	0.025
m+p - Xylene	< 0.002	< 0.002	0.058	116	0.050
o-Xylene	< 0.001	<0.001	0.024	96.0	0.025

% Recovery

	70 I LOCOTOLY		
Dibromofluoromethane	89.3		
Fluorobenzene	85.1		
Toluene-d8	102		
4-Bromofluorobenzene	89.8		

METHODS: EPA SW-846-8260.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,

AND TOTAL XYLENES.

Chemist

Date

03/25/09



Receiving Date: 03/19/09 Reporting Date: 03/25/09

Project Number: STATE QE 13#1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM

Sample ID: MW-1-S Lab Number: H17096-2 Analysis Date: 03/24/09 Sampling Date: 03/18/09

Sample Type: WATER Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: ZL

BTEX - 8260 (mg/L)

Sample Result

H17096-2

Method Blank

QC %Recov.

True Value QC

03/25/09

Naphthalene <0.001 <0.001 0.027 108 0.025

O.C.	D-	-		
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	70 110001013	
Dibromofluoromethane	09.0	
Fluorobenzene	85.1	
Toluene-d8	102	
4-Bromofluorobenzene	89.8	

METHODS: EPA SW-846-8260.

Chemist

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July 6, 2009

Andrew Parker RT Hicks Consultants 901 Rio Grande Blvd. NW Suite F-142 Albuquerque, NM 87104

Re: State QE 13 #1

Enclosed are the results of analyses for sample number H17660, received by the laboratory on 06/18/09 at 1:55 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Total Number of Pages of Report: 7 (includes Chain of Custody)

Sincerely,

Celey D. Keene Laboratory-Director



Receiving Date: 06/18/09

Reporting Date: 06/22/09

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

LEA CO., NM

Project Location: T12S-R34E-SEC13 UNIT LETTER O~ Analyzed By: AB/HM

Sampling Date: 06/17/09 Sample Type: WATER

Sample Condition: COOL & INTACT @ 5°C

Sample Received By: AB

		CI	TDS
LAB NO.	SAMPLE ID	(mg/L)	(mg/L)

Analysis Date:	06/19/09	06/19/09
H17660-1 MW-1-D	64	490
H17660-2 MW-1-S	1,120	2,860
Quality Control	500	NR
True Value QC	500	NR
	100	NR
% Recovery		
Relative Percent Difference	<0.1	0

METHOD:	Standard Methods, EPA	4500-Cl <sup>-</sup> B	160.1

Not accredited for chloride and TDS.

hemist

Date

H17660 RT HICKS



Receiving Date: 06/18/09 Reporting Date: 07/02/09

Project Number: STATE QE 13#1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM Sample ID: MW-1-D Lab Number: H17660-1 Analysis Date: 06/30/09 Sampling Date: 06/17/09 Sample Type: WATER

Sample Condition: COOL & INTACT @ 5°C

Sample Received By: AB

Analyzed By: SS

BTEX 8260 (mg/L)	Sample Result H17660-1	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	<0.001	0.019	95.0	0.020
Toluene	<0.001	< 0.001	0.018	90.0	0.020
Ethylbenzene	< 0.001	< 0.001	0.022	112	0.020
m+p Xylono	-0.002	~0.002	0.046	113	0.040
o-Xylene	< 0.001	< 0.001	0.023	115	0.020

% Recovery

Dibromofluoromethane	102	
Toluene-d8	100	
4-Bromofluorobenzene	91.5	

METHODS: EPA SW-846-8260.

Subcontracted to SunStar Laboratories, Inc.

Chemist



Receiving Date: 06/18/09 Reporting Date: 07/02/09

Project Number: STATE QE 13#1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM

Sample ID: MW-1-D Lab Number: H17660-1 Analysis Date: 06/30/09

Sampling Date: 06/17/09 Sample Type: WATER

Sample Condition: COOL & INTACT @ 5°C

Sample Received By: AB

Analyzed By: SS

BTEX 8260 (mg/L)

Sample Result

H17660-1

Method Blank

QC %Recov.

True Value

QC

Naphthalene	< 0.001	< 0.001	0.029	144	0.020	

% Recovery

Dibromofluorom	nethane	102	
Toluene-d8		100	
4-Bromofluorob	enzene	91.5	

METHODS: EPA SW-846-8260.

Subcontracted to SunStar Laboratories, Inc.

Chemist

07/06/09



Receiving Date: 06/18/09 Reporting Date: 07/02/09

Project Number: STATE QE 13#1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM

Sample ID: MW-1-S Lab Number: H17660-2 Analysis Date: 06/30/09 Sampling Date: 06/17/09

Sample Type: WATER

Sample Condition: COOL & INTACT @ 5°C

Sample Received By: AB

Analyzed By: SS

BTEX - 8260 (mg/L)	Sample Result H17660-2	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	<0.001	0.019	95.0	0.020
Toluene	< 0.001	< 0.001	0.018	90.0	0.020
Ethylbenzene	< 0.001	< 0.001	0.022	112	0.020
m+p - Xylene	< 0.002	< 0.002	0.045	113	0.040
o-Xvlene	< 0.001	< 0.001	0.023	115	0.020

% Recovery

Γ	Dibromofluoromethane	99.1	
Г	Toluene-d8	101	
	4-Bromofluorobenzene	106	

METHODS: EPA SW-848-8260.

Subcontracted to SunStar Laboratories, Inc.

Chemist

Date 07/06/09

Analysis Date: 06/30/09

Sampling Date: 06/17/09

Sample Received By: AB

Analyzed By: SS

Sample Condition: COOL & INTACT @ 5°C

Sample Type: WATER



ANALYTICAL RESULTS FOR RT HICKS CONSULTANTS ATTN: ANDREW PARKER 901 RIO GRANDE BLVD. NW, SUITE F-142 ALBUQUERQUE, NM 87104

Receiving Date: 06/18/09 Reporting Date: 07/02/09

Project Number: STATE QE 13#1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM

Sample ID: MW-1-S Lab Number: H17660-2

BTEX - 8260 (mg/L)

Sample Result

H17660-2

ult Me

Method Blank

QC %Recov.

True Value

QC

07/06/09

Naphthalene	< 0.001	< 0.001	0.029	144	0.020

% Recovery

ſ	Dibromofluoromethane	99.1	
ľ	Toluene-d8	101	
ľ	4-Bromofluorobenzene	106	

METHODS: EPA SW-846-8260.

Subcontracted to SunStar Laboratories, Inc.

Chamiet

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	LAB Order ID #	ANALYSIS REQUEST (Circle or Specify Method No.)			2'00		9010	5 <sub>1</sub>	H es	(g S / L**) (SC (SC (SC (SC (SC (SC (SC (SC (SC (SC	(160 (160 () () () () ()	Ba C Ba C Ba C Ba C Ba C Ba C Ba C B Ba C B B B B	coorxings and galacter and gala	MTBE 8027 TPH 418.1/ Total Metals TCLP Metals TCLP Metals TCLP Vetals TCLP Peests TCLP Pee	x x	×					Phone Results Yes No	Fax Results Yes No Additional Fax Number:	REMARKS:	Email Results to:	andrew@rthicksconsult.com mattp@pride-energy.com rozanne@valomet.com
	Cardinal Laboratories, Inc.	r ompany / Mat	Address: (Street, City, Zip) P. O. Box 710850 ~ Tulsa. OK 74170-1350		(918) 524-9200	**		Project Name:	Pride Energy Company 4.1	Sampler Signature   Placeme Johnson (575)631-9310	PRESER/ATIVE	MATRIX	(NEKS)	(G)(sb or (C)	6 3 X 2 1 6 17 10,00						Received by: / Date: Time:	1 37 (118/19 13:55	Réceived By. (Laboratory/Staff) Dafe: Time:	. 0	Sample Condition  Cost Integral  Yes Yes (Integral)
obs. New		Company Name: RT Hicks Consultants	Project Manager: Andrew Parker	Address: (Street, City, Zib)	Rio Gra	Phone #:	(505) 266-5004	Project #:	State QE 13 #1	Project Location: T12S_R24E_Sec13   Init   other O ~   on County   New Maximal			LAB # FIELD CODE	( LAB USE )	H17660-1 MW-1-0	-2 MW-1-s				-	Relinquished by Date: Time:	100 WW//wote 1809 13:51	Time:		Sampler - UPS - Bus - Other: #20



October 5, 2009

Andrew Parker RT Hicks Consultants 901 Rio Grande Blvd. NW Suite F-142 Albuquerque, NM 87104

Re: State QE 13 #1

Enclosed are the results of analyses for sample number H18305, received by the laboratory on 09/24/09 at 11:21 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.2

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 7 (includes Chain of Custody)

Sincerely.

Celey D. Keene

Laboratory Director



Receiving Date: 09/24/09 Reporting Date: 10/01/09

Project Number: STATE QE 13#1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM

Sample ID: MW-1-D Lab Number: H18305-1 Analysis Date: 09/30/09 Sampling Date: 09/22/09

Sample Type: WATER

Sample Condition: COOL & INTACT @ 1.5°C

Sample Received By: ML

Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result	Method		True Value
	H18305-1	Blank	QC %Recov.	QC

Benzene	< 0.001	< 0.001	0.010	100	0.010
Toluene	< 0.001	< 0.001	0.011	110	0.010
Ethylbenzene	< 0.001	< 0.001	0.010	100	0.010
m+p - Xylene	< 0.002	< 0.002	0.022	109	0.020
o-Xylene	< 0.001	< 0.001	0.011	108	0.010

% Recovery

Dibromofluoromethane	88.5	
Toluene-d8	104	
4-Bromofluorobenzene	113	

METHODS: EPA SW-846-8260.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,

AND TOTAL XYLENES.

Chemist



Receiving Date: 09/24/09 Reporting Date: 10/01/09

Project Number: STATE QE 13#1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM

Sample ID: MW-1-D Lab Number: H18305-1 Analysis Date: 09/30/09 Sampling Date: 09/22/09 Sample Type: WATER

Sample Condition: COOL & INTACT @ 1.5°C

Sample Received By: ML

Analyzed By: ZL

BTEX 8260 (mg/L)

Naphthalene

Sample Result

H18305-1

Method

. . . . . .

True Value

Blank QC %Recov. QC

<0.001 <0.001 0.020 98.7 0.020

% Recovery

	70.100010.3	
Dibromofluoromethane	88.5	
Toluono d8	104	
4-Bromofluorobenzene	113	

METHODS: EPA SW-848-8260. Not accredited for Naphthalene.

Chemist



Receiving Date: 09/24/09 Reporting Date: 10/01/09

Project Number: STATE QE 13#1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM

Sample ID: MW-1-S Lab Number: H18305-2 Analysis Date: 09/30/09 Sampling Date: 09/22/09

Sample Type: WATER

Sample Condition: COOL & INTACT @ 1.5°C

Sample Received By: ML

Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result H18305-2	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	<0.001	0.010	100	0.010
Toluene	< 0.001	< 0.001	0.011	110	0.010
Ethylbenzene	< 0.001	< 0.001	0.010	100	0.010
m+p - Xylene	< 0.002	< 0.002	0.022	109	0.020
o-Xylene	< 0.001	< 0.001	0.011	106	0.010

% Recovery

	70 110001013	
Dibromofluoromethane	90.6	
Toluene-d8	107	
4-Bromofluorobenzene	107	

METHODS: EPA SW-846-8260.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,

AND TOTAL XYLENES.

Chemist

Date

10/05/09

Analysis Date: 09/30/09

Sampling Date: 09/22/09

Sample Type: WATER

Analyzed By: ZL

Sample Received By: ML



ANALYTICAL RESULTS FOR RT HICKS CONSULTANTS ATTN: ANDREW PARKER 901 RIO GRANDE BLVD. NW, SUITE F-142 ALBUQUERQUE, NM 87104

Receiving Date: 09/24/09 Reporting Date: 10/01/09

Project Number: STATE QE 13#1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM

Sample ID: MW-1-S Lab Number: H18305-2

Sample Result

Method

True Value

10/05/89

Sample Condition: COOL & INTACT @ 1.5°C

BTEX 8260 (mg/L)

H18305-2

Blank QC %Recov.

QC

Naphthalene	< 0.001	< 0.001	0.020	98.7	0.020

	% Recovery	
Dibromofluoromethane	90.6	
Toluene-d8	107	
4-Bromofluorobenzene	107	

METHODS: EPA SW-848-8260. Not accredited for Naphthalene.

Chemist



Receiving Date: 09/24/09 Reporting Date: 09/26/09

Sampling Date: 09/22/08

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~

LEA COUNTY - NEW MEXICO

Sample Type: WATER Sample Condition: COOL & INTACT @ 1.5°C

Sample Received By: ML

Analyzed By: HM

LAB NO.	SAMPLE ID	TDS (mg/L)	CI <sup>-</sup> (mg/L)
Analysis Date	1.	09/25/09	09/25/09

Analysis Date		09/25/09	09/25/09
H18305-1	MW-1-d	447	64
H18305-2	MW-1-s	1,760	570
Quality Contro	N.	NR	500
True Value Q		NR	500
% Recovery		NR	100
Relative Perce	ent Difference	2.4	< 0.1

METHOD: EPA 600/4-79-020	160.1	SM4500-CI-B
Not accredited for Chloride and TDS.		

Fage 1 of

Condition	Cardinal Laboratoris, Inc.	Consultants Setzoleum Jerry Fanning	r. Address:	Parker 105 S 4th Street ~ Artesia, New Mexico 88210	Fasili.		Z/80)	(09	Yates Petroleum	Semples Semples Supplement Mazerpe John Manual Annual Market September Supplement Annual Market September Supplement Annual Market September Supplement Annual Market September Supplement Annual Market September Supplement Annual Market September Supplement Annual Market September Supplement Annual Market September Supplement Annual Market September Supplement September Supplement September September Supplement September Se	000000000000000000000000000000000000000	8a Cd 8b Cd 8c Cd	(ACA)  (A	DGE SOA	WATE   COMMON   COM	MWV-1-d G 3 X	2 1 9-22 9:05 X				Date: Time: Received by:	7	by: Date: Time: Received By() (Laboratory Staff) Date: Time: REMARKS:	(Circle 0
101 East Marland - Hobbs, New Marches All St.	Tel (575) 305-2328 Fax (575) 393-2475	Company Name: RT Hicks Consultants	Project Manager:	Andrew Parker	Address: (Street, City, Zip)	901 Rio Grande Blvd NW Sui	Phone #: (505) 266-5004	tono-007 (coc)	State QE 13 #1	Project Location: T12S_R34F_Sec13 Unit	100000000000000000000000000000000000000		LAB#		ONE!	H18505/ MW-1-d	- 2 MW·1-s			0	Reindushed by: / Date	7	Relinquished by: Date	Delivered By: (Circle One) Sampler - UPS - Bus



December 22, 2009

Andrew Parker RT Hicks Consultants 901 Rio Grande Blvd. NW Suite F-142 Albuquerque, NM 87104

Re: State OE 13 #1

Enclosed are the results of analyses for sample number H18888, received by the laboratory on 12/16/09 at 9:00 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005 Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.2 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 7 (includes Chain of Custody)

Sincerely,

Celey D./Keene Laboratory Director



Receiving Date: 12/16/09

Reporting Date: 12/17/09

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY Project Location: T12S-R34E-SEC13 UNIT LETTER O ~

LEA COUNTY - NEW MEXICO

Sampling Date: 12/11/08

Sample Type: WATER

Sample Condition: COOL & INTACT @ 1.5°C

Sample Received By: CK

Analyzed By: HM

		TDS	CI.	
LAB NO.	SAMPLE ID	(mg/L)	(mg/L)	

Analysis Date:	12/16/09	12/16/09
H18888-1 MW-1-d	505	60
H18888-2 MW-1-s	2,200	770
Quality Control	NR	500
True Value QC	NR	500
% Recovery	NR	100
Relative Percent Difference	1.8	< 0.1

Į	METHOD: EPA 600/4-79-020
	Not accredited for TDS and Chloride.

160.1 SM4500-CI-B



Receiving Date: 12/16/09 Reporting Date: 12/18/09

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~

LEA COUNTY, NM

Sample ID: MW-1D Lab Number: H18888-1 Analysis Date: 12/16/09

Sampling Date: 12/11/09 Sample Type: WATER

Sample Condition: COOL & INTACT @1.5°C

Sample Received By: CK

Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result	Method		True Value
	H18888-1	Blank	QC %Recov	QC

Benzene	< 0.001	< 0.001	0.021	105	0.020
Toluene	< 0.001	< 0.001	0.021	105	0.020
Ethylbenzene	< 0.001	< 0.001	0.022	110	0.020
m+p - Xylene	< 0.002	< 0.002	0.042	105	0.040
o-Xylene	< 0.001	< 0.001	0.020	100	0.020

% Recovery

	Dibromofluoromethane	99.7	
ı	Toluene-d8	96.2	
ı	4-Bromofluorobenzene	94.0	

METHODS: EPA SW-846-8260.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,

AND TOTAL XYLENES

Chemist

Date

12/22/09



ALBUQUERQUE, NM 87104

Receiving Date: 12/16/09

Reporting Date: 12/18/09 Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~

LEA COUNTY, NM

Sample ID: MW-1D Lab Number: H18888-1 Analysis Date: 12/16/09

Sampling Date: 12/11/09 Sample Type: WATER

Sample Condition: COOL & INTACT @1.5°C

Sample Received By: CK

Analyzed By: ZL

BTEX 8260 (mg/L)

Sample Result

H18888-1

Method

Blank QC %Recov.

True Value QC

Naphthalene <0.001 <0.001 0.021 105 0.020

% Recovery

	n receiving	
Dibromofluoromethane	99.7	
Toluene-d8	96.2	
4-Bromofluorobenzene	94.0	

METHODS: EPA SW-846-8260. Not accredited for Naphthalene.

Chemist

12/22/09 Date



Receiving Date: 12/16/09 Reporting Date: 12/18/09

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~

LEA COUNTY, NM

Sample ID: MW-1S Lab Number: H18888-2 Analysis Date: 12/16/09 Sampling Date: 12/11/09 Sample Type: WATER

Sample Condition: COOL & INTACT @1.5°C

Sample Received By: CK

Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result	Method		True Value
	H18888-2	Blank	QC %Recov.	QC

Benzene	< 0.001	< 0.001	0.021	105	0.020
Toluene	< 0.001	< 0.001	0.021	105	0.020
Ethylbenzene	< 0.001	< 0.001	0.022	110	0.020
m+p - Xylene	< 0.002	< 0.002	0.042	105	0.040
o-Xvlene	< 0.001	< 0.001	0.020	100	0.020

% Recovery

Dibromofluoromethane	120	
Toluene-d8	100	
4-Bromofluorobenzene	100	

METHODS: EPA SW-846-8260.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,

AND TOTAL XYLENES.

Chemist

12/22/09



Receiving Date: 12/16/09 Reporting Date: 12/18/09

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~

LEA COUNTY, NM

Sample ID: MW-1S Lab Number: H18888-2 Analysis Date: 12/16/09 Sampling Date: 12/11/09 Sample Type: WATER

Sample Condition: COOL & INTACT @1.5°C

Sample Received By: CK

Analyzed By: ZL

BTEX 8260 (mg/L)

Sample Result

Method

True Value

H18888-2 Blank QC %Recov. QC

Naphthalene	< 0.001	< 0.001	0.021	105	0.020

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•	w .		w	•	w		w	

Dibromofluoromethane	120	
Toluene-d8	100	
4-Bromofluorobenzene	100	

METHODS: EPA SW-846-8260. Not accredited for Naphthalene.

Compared by Circle One   Compared by Circle	101 East Martend - Hobbe, Mew Monicoo 86240 Tel (8719) 398-2328 Fax (8719) 398-2478 Company Marne: RT Hicks Consultar Project Managar. Andrew Parker Address: (Sheet, City, Z 901 Rio Grands Blvd NV Prone #: State QE 13 #1 Project Incation: T12S-R34E-Sec13	Tot Emer Martend - Hobbe, Mery Tot (57%) 362-236 Tot (57%) 362-236 Tot (57%) 363-2478 Tot (57%) 363-2478 Thicks Consultants Opect Manager.  Andrew Parker An	Face R	Labora Bill To Compan: Yates Petroleum Address: 105 S 4th Street ~ Arts Phonet: (575) 748-1471 Froject Name: Sampler Sign Jew Mexico	Name:	borrance Street - Arte Phones: 8-1471	— I al lat	Jerry Fa (Street, Sia. New Mexico 8	1;   Jean   1;   Jean   1;	Dries, I. Pou Jerry Fannir (Street, City. New Mexico 88210 Faxo	Jes, In Post Jerry Fanning (Street, City, Zip Mexico 88210 Fazel: Fazel:	PO# PO# PO# TY Fanning (Street, City, Zip) Alco 88210 Facet: Face	0000 0000		(36C) Extended (C36)	L L	Cr. Pb. Se Hg 60108/200.7	B Ord B Ord Christian	CHAIN-OF-CUSTODY  LAB Order ID #  ANALYSIS  (Circle or Specify Chair and the state of the state	Sist Signature	REQUE AND A Method	Order ID #  Order	ANALYSIS  M No.)  M No.)		CO3)	CO3)	.	
MWV1-4	LAB# ONLY ONLY HI9883	FIELD CODE	qmo(3) no den(8)	# CONTAINERS	\	AIR C	3r∩D@E	1CF (540M AON)	NO <sub>3</sub> No No No No No No No No No No No No No	P P POST	CE (1-1794 HD6E)		TIME					TCLP Volatiles							Cations (Ca, Mg, Na, K)	Anions (Cl. SO4, CO3, H		
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Sample Contains No. 12-14-2601 7:01 Fax Results Yes No. 12-14-2601 7:01 Fax Results Yes No. 12-14-09-91 Sample Contains No. 12-14-09 9:00 Fax Results No. 12-14-09 9:00 Fax Results Yes No. 12-14-09 9:00 Fax Fax Fax Fax Fax Fax Fax Fax Fax Fax						+		$\perp$	+		$\pm$	$\perp$	$\Box$		+	$\Box$	+	$\perp$	$\vdash$		+		+		+		+	П
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April 1, 2010

Andrew Parker RT Hicks Consultants 901 Rio Grande Blvd. NW Suite F-142 Albuquerque, NM 87104

Re: State QE 13 #1

Enclosed are the results of analyses for sample number H19560, received by the laboratory on 03/29/10 at 10:20 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005 Total Petroleum Hydrocarbons

Wedlod 12 1005 Total Fedoledin Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.2 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 7 (includes Chain of Custody)

Sincerely,

Laboratory Director



Receiving Date: 03/29/10 Reporting Date: 03/30/10

Sampling Date: 03/25/10 Sample Type: WATER

Project Number: STATE QE 13 #1

Sample Condition: COOL & INTACT @ -1.0°C

Project Name: PRIDE ENERGY COMPANY

Sample Received By: JH

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~ Analyzed By: HM

LEA COUNTY - NEW MEXICO

		TDS	CI
LAB NO.	SAMPLE ID	(mg/L)	(mg/L)

Analysis Date:	03/29/10	03/29/10
H19560-1 MW-1-d	469	60
H19560-2 MW-1-s	1,760	530
Quality Control	NR	500
True Value QC	NR	500
% Recovery	NR	100
Relative Percent Difference	6.2	< 0.1

METHOD: EPA 600/4-79-020	160.1	SM4500-CI-B
Not accredited for TDS and Chloride.		



Receiving Date: 03/29/10 Reporting Date: 03/31/10

Project Number: STATE QE 13 #1
Project Name: YATES PETROLEUM

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM

Sample ID: MW-1-D Lab Number: H19560-1 Analysis Date: 03/30/10 Sampling Date: 03/25/10 Sample Type: WATER

Sample Condition: COOL & INTACT @ -1°C

Sample Received By: JH

Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result H19560-1	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	<0.001	0.012	118	0.010
Toluene	< 0.001	< 0.001	0.011	109	0.010
Ethylhenzene	<0.001	<0.001	0.010	99.0	0.010

Benzene	<0.001	< 0.001	0.012	118	0.010
Toluene	< 0.001	< 0.001	0.011	109	0.010
Ethylbenzene	< 0.001	< 0.001	0.010	99.0	0.010
m+p - Xylene	< 0.002	< 0.002	0.021	107	0.020
o-Xylene	< 0.001	< 0.001	0.011	113	0.010

% Recovery

Dibromofluoromethane	111	
Toluene-d8	113	
4-Bromofluorobenzene	95.6	

METHODS: EPA SW-846-8260.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist



Receiving Date: 03/29/10 Reporting Date: 03/31/10

Project Number: STATE QE 13 #1 Project Name: YATES PETROLEUM

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM

Sample ID: MW-1-D Lab Number: H19560-1 Analysis Date: 03/30/10 Sampling Date: 03/25/10 Sample Type: WATER

Sample Condition: COOL & INTACT @ -1°C

Sample Received By: JH

Analyzed By: ZL

BTEX 8260 (mg/L)

Sample Result H19560-1 Method Blank

QC %Recov.

True Value

QC

04/01/10

	 					_
Naphthalene	< 0.001	< 0.001	0.010	101	0.010	

% Recovery

Dibromofluoromethane	111	
Toluene-d8	113	
4-Bromofluorobenzene	95.6	

METHODS: EPA SW-846-8260. Not accredited for Naphthalene.

Chemist



Receiving Date: 03/29/10

Reporting Date: 03/31/10 Project Number: STATE QE 13 #1

Project Name: YATES PETROLEUM

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM

Sample ID: MW-1-S Lab Number: H19560-2 Analysis Date: 03/30/10 Sampling Date: 03/25/10

Sample Type: WATER

Sample Condition: COOL & INTACT @ -1°C

Sample Received By: JH

Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result H19560-2	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	< 0.001	0.012	118	0.010
Toluene	< 0.001	< 0.001	0.011	109	0.010
Ethylbenzene	< 0.001	< 0.001	0.010	99.0	0.010
m+p - Xylene	< 0.002	< 0.002	0.021	107	0.020
o-Xylene	< 0.001	< 0.001	0.011	113	0.010

% Recovery

Γ	Dibromofluoromethane	117	
	Toluene-d8	112	
ľ	4-Bromofluorobenzene	101	

METHODS: EPA SW-846-8260.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist

Date

04/01/10



Receiving Date: 03/29/10 Reporting Date: 03/31/10

Project Number: STATE QE 13 #1 Project Name: YATES PETROLEUM

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM Sample ID: MW-1-S

Sample ID: MW-1-S Lab Number: H19560-2 Analysis Date: 03/30/10 Sampling Date: 03/25/10 Sample Type: WATER

Sample Condition: COOL & INTACT @ -1°C

Sample Received By: JH

Analyzed By: ZL

BTEX 8260 (mg/L)

Sample Result

H19560-2

< 0.001

Method Blank

QC %Recov.

101

True Value

QC

Naphthalene

<0.001 0.010

0.010

% Recovery

Γ	Dibromofluoromethane	117	
Γ	Toluene-d8	112	
ľ	4-Bromofluorobenzene	101	

METHODS: EPA SW-846-8260. Not accredited for Naphthalene.

Chemist

Page 1 of 1

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June 24, 2010

Andrew Parker RT Hicks Consultants 901 Rio Grande Blvd. NW Suite F-142 Albuquerque, NM 87104

Re: State QE 13 #1

Enclosed are the results of analyses for sample number H20153, received by the laboratory on 06/18/10 at 10:02 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 7 (includes Chain of Custody)

Sincerely,

Laboratory Director



Receiving Date: 06/18/10 Reporting Date: 06/22/10

Project Number: STATE QE 13 #1 Project Name: YATES PETROLEUM

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM

Sample ID: MW-1-D Lab Number: H20153-1 Analysis Date: 06/21/10 Sampling Date: 06/16/10 Sample Type: WATER

Sample Condition: COOL & INTACT @ 1.5°C

Sample Received By: HM

Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result H20153-1	Method Blank	qc	%Recov.	True Value QC
Benzene	<0.001	< 0.001	0.011	110	0.010

Benzene	< 0.001	< 0.001	0.011	110	0.010
Toluene	< 0.001	< 0.001	0.010	100	0.010
Ethylbenzene	< 0.001	< 0.001	0.010	100.0	0.010
m+p - Xylene	< 0.002	< 0.002	0.023	113	0.020
o-Xylene	< 0.001	< 0.001	0.011	110	0.010

% Recovery

		70 110007017	
	Dibromofluoromethane	90.9	
ľ	Toluene-d8	101	
ľ	4-Bromofluorobenzene	104	

METHODS: EPA 8W-846-8260.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,

AND TOTAL XYLENES.

Chemist

06/24/10



Receiving Date: 06/18/10 Reporting Date: 06/22/10

Project Number: STATE QE 13 #1 Project Name: YATES PETROLEUM

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM Sample ID: MW-1-D

Lab Number: H20153-1

Analysis Date: 06/21/10 Sampling Date: 06/16/10 Sample Type: WATER

Sample Condition: COOL & INTACT @ 1.5°C

Sample Received By: HM

Analyzed By: ZL

BTEX 8260 (mg/L)

Sample Result H20153-1 Method

irue

True Value

Blank

QC %Recov.

QC

06/24/1:

Naphthalene <0.001 <0.001 0.010 100 0.010

% Recovery				
76 PURCUVELY				

Dibromofluoromethane	90.9	
Toluene-d8	101	
4-Bromofluorobenzene	104	

METHODS: EPA SW-846-8260. Not accredited for Naphthalene.

Chemist



Receiving Date: 06/18/10 Reporting Date: 06/22/10

Project Number: STATE QE 13 #1 Project Name: YATES PETROLEUM

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM mple ID: MW-1-S

Sample ID: MW-1-S Lab Number: H20153-2

o-Xylene

Analysis Date: 06/21/10 Sampling Date: 06/16/10 Sample Type: WATER

Sample Condition: COOL & INTACT @ 1.5°C

Sample Received By: HM

Analyzed By: ZL

110

0.010

BTEX 8260 (mg/L)	Sample Result H20153-2	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	<0.001	0.011	110	0.010
Toluene	< 0.001	< 0.001	0.010	100	0.010
Ethylbenzene	< 0.001	< 0.001	0.010	100.0	0.010
m+p - Xylene	< 0.002	< 0.002	0.023	113	0.020

< 0.001

% Recovery

< 0.001

0.011

		20 110001019	
Dibromof	luoromethane	108	
Toluene-	18	112	
4-Bromot	luorobenzene	100	

METHODS: EPA SW-846-8260.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist

06/24/10 Date



Receiving Date: 06/18/10 Reporting Date: 06/22/10

Project Number: STATE QE 13 #1 Project Name: YATES PETROLEUM

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM Sample ID: MW-1-S

Lab Number: H20153-2

Analysis Date: 06/21/10 Sampling Date: 06/16/10 Sample Type: WATER

Sample Condition: COOL & INTACT @ 1.5°C

Sample Received By: HM

Analyzed By: ZL

BTEX 8260 (mg/L)

Sample Result

H20153-2

Method Blank

QC %Recov.

True Value

06/24/1

QC

Naphthalene	< 0.001	< 0.001	0.010	100	0.010

	70 INDUOVELY	
Dibromofluoromethane	108	
Toluene-d8	112	
4-Bromofluorobenzene	100	

METHODS: EPA SW-846-8260. Not accredited for Naphthalene.



Receiving Date: 06/18/10 Reporting Date: 08/22/10

Sampling Date: 06/16/10 Sample Type: WATER

Project Number: STATE QE 13 #1

Sample Condition: COOL & INTACT @ 1.5°C

CI.

Project Name: YATES PETROLEUM

Sample Received By: HM

TDS

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~ Analyzed By: HM

LEA COUNTY - NEW MEXICO

(mg/L)	(mg/L)	SAMPLE ID	LAB NO.
06/22/10	06/21/10	C C	Analysis Date
64	493	MVV-1-d	H20153-1
400	1,430	MW-1-s	H20153-2
500	NR	ol	Quality Contro
500	NR	С	True Value Q
100	NR		% Recovery
< 0.1	9.3	ent Difference	Relative Perc

METHOD: EPA 600/4-79-020	160.1	SM4500-CI-B
Not accredited for TDS and Chloride.		

06/24/1

Page 1 of 1

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01 E		ompany Name: RT Hicks Consultants	roject Manage	Andrew Parker	Address	901 Rio Grande Blvd NW Suite F-142 ~ Albuq, NM 87104	hone #	(505) 266-5004	roject #	State QE 13 #1	roject Location	1125-K34E-Sec13 Unit Letter O ~ Lea County - New Mexico		3	LAB USE ONLY	H20153-1								ReInduished by	1	Rozenne Johnson	June 1	Deliverse By:	Sample
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September 29, 2010

ANDREW PARKER

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 09/17/10 10:36.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Celey D. Keine



# Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To:

Received: Reported: Project Name: 09/17/2010 09/29/2010 STATE QE 13 #1

NONE GIVEN

Project Number: Project Location:

TDS

T12S-R34E-SEC13 U LTR O ~ LEA CTY -

Reporting Limit

5.00

475

Sampling Date: Sampling Type: 09/14/2010 Water

True Value QC

RPD

0.978

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

# Sample ID: MW - 1 - d (H020879-01)

_			-
OTEV 4	Nanhthalene	92608	

### Analyzed By: CMS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.001	0.001	09/27/2010	ND	0.018	90.6	0.0200	8.05	
Toluene*	< 0.001	0.001	09/27/2010	ND	0.020	99.5	0.0200	10.3	
Ethylbenzene*	< 0.001	0.001	09/27/2010	ND	0.017	86.7	0.0200	8.45	
m+p - Xylene	< 0.002	0.002	09/27/2010	ND	0.034	86.0	0.0400	8.70	
o-Xylene	< 0.001	0.001	09/27/2010	ND	0.018	87.6	0.0200	8.68	
Total Xylenes*	< 0.003	0.003	09/27/2010	ND	0.052	86.6	0.0600	8.69	
Surrogate: Dibromofluoromethane	83.09	6 80-120							
Surrogate: Toluene-d8	70.45	6 80-120							
Surrogate: 4-Bromofluorobenzene	73.45	6 80-120							
Chloride, SM4500CI-B	mg/	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	4.00	09/20/2010	ND	112	112	100	3.64	
TDS 160.1	mg/	L	Analyze	d By: HM					

Method Blank

ND

Analyzed

09/20/2010

Cardinal Laboratories \*=Accredited Analyte

09/14/2010

Cool & Intact

Jodi Henson

Water



# Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: ?

 Received:
 09/17/2010

 Reported:
 09/29/2010

 Project Name:
 STATE QE 13 #1

 Project Number:
 NONE GIVEN

09/29/2010 Sampling Type:
STATE QE 13 #1 Sampling Condition:
NONE GIVEN Sample Received By:

Sampling Date:

Project Location: T12S-R34E-SEC13 U LTR 0 ~ LEA CTY -

### Sample ID: MW - 1 - s (H020879-02)

BTEX + Naphthalene 8260B	mg/	L	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualific
Benzene*	< 0.001	0.001	09/27/2010	ND	0.018	90.6	0.0200	8.05	
Toluene*	< 0.001	0.001	09/27/2010	ND	0.020	99.5	0.0200	10.3	
Ethylbenzene*	< 0.001	0.001	09/27/2010	ND	0.017	86.7	0.0200	8.45	
m+p - Xylene	< 0.002	0.002	09/27/2010	ND	0.034	86.0	0.0400	8.70	
o-Xylene	< 0.001	0.001	09/27/2010	ND	0.018	87.6	0.0200	8.68	
Total Xylenes*	< 0.003	0.003	09/27/2010	ND	0.052	86.6	0.0600	8.69	
Surrogate: Dibromofluoromethane	92.6	% 80-120							
Surrogate: Toluene-d8	91.6	% 80-120							
Surrogate: 4-Bromofluorobenzene	93.0	% 80-120							
Chloride, SM4500CI-B	mg/	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	324	4.00	09/20/2010	ND	112	112	100	3.64	
TDS 160.1	mg,	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
TDS	1180	5.00	09/20/2010	ND				0.978	

Cardinal Laboratories \*=Accredited Analyte

PLINE NOTE: Listing and because a Control's bidding and death exclusive entering for any claim untuity, exhibited in control or turt, shall be britted to the amount paid by client for analysis. All claims, including those for negligence and any other cause electroners shall be deemed watered untuins made in writing and manned by Cardinal entities theiry (IX) days after completion of the application service. In so, event shall Cardinal be labeled for bookers or consequential description, business interruptions, time of use, or loss of prafts incurred by client, the subsidiation, affiliate an accountry state of or related to the performance of the annotate interruptions, the other labeled and the control of the subsidiation of the subsidi

Celey D. Keine



### Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

REAST NOTE: Liability and Comagns. Cardinal's binking and clearly exclusive entering of any claim urbaing, whether based in contract or turn, shall be limited to the amount paid by clear for analyses. All clears, including these for neglecture any other compared and the despited extension urbain to the product of the application entering. In no execut shall declarate the liability of compared to descripe including, without limitation, placement interruptions, in the profession of the entering including and the liability and clears and the contract to the profession and the entering of the entering of the entering including and entering the contract to the profession and the entering of the ent

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Page 5 of 5



September 29, 2010

ANDREW PARKER

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 09/17/10 10:36.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Celey D. Keine



# Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: ?

Received: Reported: Project Name: 09/17/2010 09/29/2010

09/29/2010 STATE QE 13 #1

Project Number: Project Location: NONE GIVEN

T12S-R34E-SEC13 U LTR O ~ LEA CTY -

Sampling Date:

Sampling Type: Sampling Condition:

Sample Received By:

09/14/2010 Water Cool & Intact

Jodi Henson

# Sample ID: MW - 1 - d (H020879-01)

BTEX + Naphthalene 8260B
--------------------------

mg/L

### Analyzed By: CMS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Naphthalene	< 0.001	0.001	09/27/2010	ND	0.018	91.5	0.0200	5.42	
Surrogate: Dibromofluoromethane	83.0 %	6 80-120	_						
Surrogate: Toluene-d8	70.4 %	6 80-120							
Surrogate: 4-Bromofluorobenzene	73.49	6 80-120							

# Sample ID: MW - 1 - s (H020879-02)

BTEX +	Na	phthalene 8260B
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#### Analyzed By: CMS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Naphthalene	<0.001	0.001	09/27/2010	ND	0.018	91.5	0.0200	5.42	
Surrogate: Dibromofluoromethane	92.6	% 80-120	•						
Surrogate: Toluene-d8	91.6	% 80-120							
Surrogate: 4-Bromofluorobenzene	93.0	% 80-120							

Cardinal Laboratories \*=Accredited Analyte

PLOSE NOTE: Liability and Damagins. Cardon's liability and cheer's exclusive memory for any claim strategy extends in contract or turt, shall be limited to the amount paid by clear for analysis. All claims, including those for negligence and any other causes witnesseer shall be deserved extends in wetting and received by Cardoni within thing (RE) days after completion of the application service. In no execut shall Cardoni be liability for companyed changes including, without institution, lastiness interruptions, last of any or loss of profits incomed by clearly and of the profit incomes of the solution incomes interruptions, last of any or loss of profits incomed by clearly and or all profits income and or or maked to the performance of the solution income.

Celey D. Keine



### Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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Celuy D. Keine

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Page 4 of 4



December 22, 2010

ANDREW PARKER

R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 12/20/10 9:10.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

Received: Reported: 12/20/2010 12/22/2010 STATE QE 13 #1 Sampling Date: Sampling Type: Sampling Condition: 12/16/2010 Water Cool & Intact

Project Name: Project Number: STATE QE 13 #1 NONE GIVEN

Sample Received By:

Jodi Henson

13.6

Project Location:

T12S-R34E-SEC13 U LTR O ~ LEA CTY -

Sample ID: MW - 1 - D (H021564-01)

Chloride, SM4500CI-B

TDS

mg/L

1230

5.00

Analyzed By: HM

Cilioriae, Siriesouch B	my.	/-	- milita	a by. tu-i					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	4.00	12/22/2010	ND	108	108	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	474	5.00	12/21/2010	ND				13.6	

### Sample ID: MW - 1 - S (H021564-02)

Chloride, SM4500CFB	mg	/L	Anaryze	u by: nm					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	444	4.00	12/22/2010	ND	108	108	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: HM	4 55000.01	X	101 63000	School Con-	
Annhée	Decuit	Deporting Limit	Anakand	Method Blank	DC	St. Decourse	True Value OC	pen	Ounlifer

ND

12/21/2010

Cardinal Laboratories \*=Accredited Analyte

REAST NOTE: Liability and Comagns. Cardinal's behilty and clearly exclusive remarks for any clean arising, whether based in contract or turt, shall be limited to the amount paid by clear for analyses. All clears, including those for negligence an any other causes whethereon shall be deemed varieties made in writing and resonated by Cardinal either body days, after completely of replaced to the performance of the amounts behilded to the performance of the amounts of performance of whether and clearly the performance of the contract of th



ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

REAST NOTE: Liability and Comagns. Cardinal's binking and clearly exclusive entering of any claim urbaing, whether based in contract or turn, shall be limited to the amount paid by clear for analyses. All clears, including these for neglecture any other compared and the despited extension urbain to the product of the applicative enterior. In no execut shall declarate the liability of compared to descripe including, without limitation, placement interruptions, in the profession of the enterior by Cardinal, regardless of whether and clears also provide any contract the profession and provide any contract the profession and provide any contract the profession and provide any contract the profession and provide any contract the profession and provide any contract the profession and provide any contract the profession and provide any contract the profession and provide any contract the profession and provide any contract the profession and provide any contract the profession and provide any contract the profession and provide any contract the profession and provide any contract the profession and provide any contract the profession and provide any contract the profession and provided any contract the profession

Celuy D. Keine

Page 4 of 4

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March 29, 2011

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 03/24/11 16:35.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)

Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received: 03/24/2011 Reported: 03/29/2011 STATE QE 13 #1 Project Name:

Sampling Date: Sampling Type: Sampling Condition: 03/23/2011 Water

NONE GIVEN Project Number:

Cool & Intact Sample Received By: Jodi Henson

Project Location: T12S-R34E-SEC13 U LTR 0 ~ LEA CTY -

Sample ID: MW - 1 - D (H100578-01)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	4.00	03/29/2011	ND	104	104	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	475	5.00	03/28/2011	ND				0.193	

#### Sample ID: MW - 1 - S (H100578-02)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	276	4.00	03/29/2011	ND	104	104	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: HM				Antonia	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	943	5.00	03/28/2011	ND				0.193	

Cardinal Laboratories \*=Accredited Analyte

Celecy D. Keine

Celey D. Keene, Lab Director/Quality Manager



ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Ci-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

ROSE NOTE: Labelly and Derages. Cardina's baility and clerch exclusive recently for any claim artists, related in content or tart, shall be limited to the amount paid by clerc for analyses. All claims, including these for analyses are any other cause exhibitions artists. In no sect that Cardinal he liable for including and received by Cardinal action totally (IE) days after completes of the application actions. In no sect that Cardinal he liable for including without installed, and the content installed, affiliates or accounts artisting to or related to the performance of the artists included in the content installed to the performance of the artists alternative to the performance of the artists are content accounts and analysis of the content accounts are content accounts and accounts are content accounts and account of the artists alternative to the performance of the artists are content accounts and accounts and accounts and accounts and account and accounts and accounts and accounts account and accounts and accounts and accounts account and accounts and account accounts and accounts and accounts and accounts and account accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts an account accounts and accounts an account accounts and accounts an account accounts an account accou

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Page 4 of 4



July 08, 2011

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 07/01/11 15:37.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)

Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene



R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 07/01/2011

Reported: 07/08/2011

Project Name: STATE QE 13 #1

Sampling Date: Sampling Type: Sampling Condition: Sample Received By:

Water Cool & Intact Jodi Henson

06/30/2011

Project Location: T12S-R34E-SEC13 U LTR O ~ LEA CTY -

NONE GIVEN

Sample ID: MW-1-D (H101373-01)

Project Number:

Chloride, SM4500CI-B	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	4.00	07/05/2011	ND	112	112	100	3.64	
TDS 160.1	mg	/L	Analyze	d By: HM		1 11 11			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	490	5.00	07/05/2011	ND	228	95.0	240	1.06	

#### Sample ID: MW-1-S (H101373-02)

Chioride, SM4500CI-B	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	444	4.00	07/05/2011	ND	112	112	100	3.64	
TDS 160.1	mg	/L	Analyze	d By: HM	*		E (Code)		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	1140	5.00	07/05/2011	ND	228	95.0	240	1.06	

Cardinal Laboratories \*=Accredited Analyte

REAST NOTE: Labelly and Europea. Certifieds behilty and clerck exclusive remarks for any clean artising, whether based in content or tort, what he benefit to the amount paid by clean for analyses. All cleans, including those for negligence are any other cause whatevers shall be deemed varied unless made to writing and resonate by Certified within thiny (IC) days after completes of the application amount. In no award shall Certified be failed for including, without tentation, business interruptions, insee of use, or loss of profits incurred by cleans, a stabilished, affiliates or accounts acting out of or related to the performance of the sentence for many or complete and content of the sentence of the sentenc

Celecy D. Keine

Celey D. Keene, Lab Director/Quality Manager



ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Ci-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

ROSE NOTE: Labelly and Derages. Cardina's baility and clerch exclusive recently for any claim artists, related in content or tart, shall be limited to the amount paid by clerc for analyses. All claims, including these for analyses are any other cause exhibitions artists. In no sect that Cardinal he liable for including and received by Cardinal action totally (IE) days after completes of the application actions. In no sect that Cardinal he liable for including without installed, and the content installed, affiliates or accounts artisting to or related to the performance of the artists included in the content installed to the performance of the artists alternative to the performance of the artists are content accounts and analysis of the content accounts are content accounts and accounts are content accounts and account of the artists alternative to the performance of the artists are content accounts and accounts and accounts and accounts and account and accounts and accounts and accounts account and accounts and accounts and accounts account and accounts and account accounts and accounts and accounts and accounts and account accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts an account accounts and accounts an account accounts and accounts an account accounts an account accou

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1 - Hobbs, New Section	93-2476 83-2476	mpany Name: RT Hicks Consultants		arker	(Street, City, Zip)	nde Blwd NW Suite F	5004	TO ALC	10#1	E-Sec13 Unit Le		FIELD	12	MW-1-d	MW-1-8						- Cate: 1	1		(Circle One) UPS - Bus -	
101 East Mariand - Hickor, New Modes, 69740	Tel (575) 393-2476 Fax (575) 393-2476	Company Name: RT Hicks (	Project Manager:	Andrew Parker	Address: (S	901 Rio Grai	(505) 266-5004	roject #:	State CE 13 #	T12S-R34		LAB#	ONLY ONLY	1.	4				,	1	K /	Rozáme do Garín	Neimon Marie	Delivered By.	1



October 04, 2011

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 09/30/11 14:15.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)

Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene



R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received:

09/30/2011

Sampling Date:

09/30/2011

Reported:

10/04/2011 STATE OF 13 #1

Sampling Type:

Water

Project Name: Project Number: STATE QE 13 #1 NOT GIVEN Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Location:

T12S-R34E-SEC13 U LTR 0 ~ LEA CTY -

### Sample ID: MW-1-D (H102103-01)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	4.00	10/03/2011	ND	108	108	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	440	5.00	09/30/2011	ND	222	92.5	240	2.97	

#### Sample ID: MW-1-S (H102103-02)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	440	4.00	10/03/2011	ND	108	108	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: HM	*		- El Courb	A. A. A. A. A. A. A. A. A. A. A. A. A. A	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	1220	5.00	09/30/2011	ND	222	92.5	240	2.97	

Cardinal Laboratories \*=Accredited Analyte

HAMIL NOTE: Lability and Danages. Carbon's biblity and clerks exclusive remarks for any claim unlarg, whether based in contract or tort, shall be limited to the amount paid by clerk for analyses. All claims, including those for negligance an any other cause whateness shall be desirated unlarge than the same whateness shall be desirated unlarge than the same whateness and the desirated for making the same interruptions, into of use, or loss of profits incomed by clarks, a shallander, a shillness or accordance and on a related to the performance of the services because in the same contract that the performance of the services because of profits incomed by clarks, its absolute, a shillness or accordance and on the performance of the services because or the same or accordance on the same contract that the performance of the services because or accordance on the same contract to the performance of the services because or accordance on the same contract that the performance of the services because or accordance or the same traction of the services because or accordance or the same traction of the services because or accordance or the same traction of the services because or accordance or the same traction of the services because or accordance or the same traction of the services because or accordance or accordance or the same traction of the services because or accordance or accordance or the same traction or accordance or acc



ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Ci-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

RANGE ROTE: Labelly and Danages. Cardina's beinty and clearly exclusive records for any claim white, evident in content or tart, whill be limited to the amount paid by clear for analyses. All claims, including these for analyses and any other cause welendown shall be deemed watered unless made in writing and recorded by Cardina's white thing (EE) days after completes of the application service. In no west dust Cardina's in Maller and Cardina's for thing of the application service. In no west dust Cardina's for thing, the service internations of the services internations of the services internations of the services internations of the services internations of the services internations. Security of the surprise identified above. This report shall not be expressional of Cardinal Laboratories.

Page 1 of 1

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December 28, 2011

ANDREW PARKER
R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 12/20/11 13:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene



R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

 Received:
 12/20/2011

 Reported:
 12/28/2011

 Project Name:
 STATE QE 13 #1

Sampling Date: Sampling Type: Sampling Condition: Sample Received By: 12/20/2011 Water Cool & Intact Jodi Henson

Project Number: NOT GIVEN
Project Location: T12S-R34E-SEC13 U LTR O ~ LEA CTY -

Sample ID: MW - 1 - D (H102752-01)

Chloride, SM4500CI-B mg/L Analyzed By: HM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride\* 64.0 12/21/2011 ND 108 100 3.77 4.00 108 TDS 160.1 Analyzed By: HM mg/L Reporting Limit Method Blank True Value QC Result Analyzed BS % Recovery RPD Qualifier TDS\* 487 5.00 12/21/2011 ND 232 96.7 240 4.31

#### Sample ID: MW - 1 - S (H102752-02)

Chioride, SM4500CI-B	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	420	4.00	12/21/2011	ND	108	108	100	3.77	
TDS 160.1	mg	/L	Analyze	d By: HM	*		E (Code)	3333233	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1140	5.00	12/21/2011	ND	232	96.7	240	4.31	

Cardinal Laboratories \*=Accredited Analyte

REAST NOTE: Labelly and Europea. Certifieds behilty and clerck exclusive remarks for any clean artising, whether based in content or tort, what he benefit to the amount paid by clean for analyses. All cleans, including those for negligence are any other cause whatevers shall be deemed varied unless made to writing and resonate by Certified within thiny (IC) days after completes of the application amount. In no award shall Certified be failed for including, without tentation, business interruptions, insee of use, or loss of profits incurred by cleans, a stabilished, affiliates or accounts acting out of or related to the performance of the sentence for many or complete and content of the sentence of the sentenc

Celecy D. Keine

Celey D. Keene, Lab Director/Quality Manager



ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Ci-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

ROSE NOTE: Labelly and Derages. Cardina's baility and clerch exclusive recently for any claim artists, related in content or tart, shall be limited to the amount paid by clerc for analyses. All claims, including these for analyses are any other cause exhibitions artists. In no sect that Cardinal he liable for including and received by Cardinal action totally (IE) days after completes of the application actions. In no sect that Cardinal he liable for including without installed, and the content installed, affiliates or accounts artisting to or related to the performance of the artists included in the content installed to the performance of the artists alternative to the performance of the artists are content accounts and analysis of the content accounts are content accounts and accounts are content accounts and account of the artists alternative to the performance of the artists are content accounts and accounts and accounts and accounts and account and accounts and accounts and accounts account and accounts and accounts and accounts account and accounts and account accounts and accounts and accounts and accounts and account accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts an account accounts and accounts an account accounts and accounts an account accounts an account accou

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April 05, 2012

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 03/30/12 9:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene



R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

T12S-R34E-SEC13 U LTR 0 ~ LEA CTY -

Received: 03/30/2012

Reported: 04/05/2012

Project Name: STATE QE 13 #1

Sampling Date: Sampling Type: Sampling Condition: Sample Received By: 03/28/2012 Water Cool & Intact Jodi Henson

Project Number: NOT GIVEN

The control of the beauty and the control

Sample ID: MW - 1 - D (H200759-01)

Project Location:

Chloride, SM4500CI-B	mg	/L	Analyze	d By: HM		1800			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	64.0	4.00	04/03/2012	ND	100	100	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	499	5.00	04/02/2012	ND	236	98.3	240	0.656	

#### Sample ID: MW - 1 - S (H200759-02)

Chioride, SM4500CI-B	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	420	4.00	04/03/2012	ND	100	100	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: HM	*		F16000		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1200	5.00	04/02/2012	ND	236	98.3	240	0.656	

Cardinal Laboratories \*=Accredited Analyte

REAST NOTE: Labelly and Europea. Certifieds behilty and clerck exclusive remarks for any clean artising, whether based in content or tort, what he benefit to the amount paid by clean for analyses. All cleans, including those for negligence are any other cause whatevers shall be deemed varied unless made to writing and resonate by Certified within thiny (IC) days after completes of the application amount. In no award shall Certified be failed for including, without tentation, business interruptions, insee of use, or loss of profits incurred by cleans, a stabilished, affiliates or accounts acting out of or related to the performance of the sentence for many or complete and content of the sentence of the sentenc



ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Ci-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

ROSE NOTE: Labelly and Derages. Cardina's baility and clerch exclusive recently for any claim artists, related in content or tart, shall be limited to the amount paid by clerc for analyses. All claims, including these for analyses are any other cause exhibitions artists. In no sect that Cardinal he liable for including and received by Cardinal action totally (IE) days after completes of the application actions. In no sect that Cardinal he liable for including without installed, and the content installed, affiliates or accounts artisting to or related to the performance of the artists included in the content installed to the performance of the artists alternative to the performance of the artists are content accounts and analysis of the content accounts are content accounts and accounts are content accounts and account of the artists alternative to the performance of the artists are content accounts and accounts and accounts and accounts and account and accounts and accounts and accounts account and accounts and accounts and accounts account and accounts and account accounts and accounts and accounts and accounts and account accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts an account accounts and accounts an account accounts and accounts an account accounts an account accou

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101 East Marland - Hobbs, Madeo 68240	Tol (575) 393-2326 Fax (575) 363-2476	Company Name RT Hicks	Project Manager:	Andrew Parker	Address: (I	901 Rio Gra	Phone #:	#00c-007 (coc)	Project #:	State QE 13 #1	Project Location:	T12S-R34		#BY	(LAB USE )	HEDDING.		d							Relinquished by	Dorenne Johnson	Reinquished by	1	Sampler -



July 03, 2012

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 06/29/12 9:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene



R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

 Received:
 06/29/2012

 Reported:
 07/03/2012

 Project Name:
 STATE QE 13 #1

 Project Number:
 NOT GIVEN

Sampling Date: Sampling Type: Sampling Condition: Sample Received By: 06/28/2012 Water Cool & Intact Jodi Henson

Project Location: T12S-R34E-SEC13 U LTR O ~ LEA CTY -

Sample ID: MW - 1 - D (H201463-01)

Chloride, SM4500CI-B mg/L Analyzed By: HM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride\* 64.0 07/02/2012 ND 100 100 3.92 4.00 100 TDS 160.1 Analyzed By: AP mg/L Reporting Limit Method Blank True Value QC Result Analyzed BS % Recovery RPD Qualifier TDS\* 459 5.00 07/03/2012 ND 235 97.9 240 1.94

#### Sample ID: MW - 1 - S (H201463-02)

Chioride, SM4500CI-B	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	460	4.00	07/02/2012	ND	100	100	100	3.92	
TDS 160.1	mg	/L	Analyze	d By: AP	*		- FIGURE	A SAMELIA	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1250	5.00	07/03/2012	ND	235	97.9	240	1.94	

Cardinal Laboratories \*=Accredited Analyte

REAST NOTE: Labelly and Europea. Certifieds behilty and clerck exclusive remarks for any clean artising, whether based in content or tort, what he benefit to the amount paid by clean for analyses. All cleans, including those for negligence are any other cause whatevers shall be deemed varied unless made to writing and resonate by Certified within thiny (IC) days after completes of the application amount. In no award shall Certified be failed for including, without tentation, business interruptions, insee of use, or loss of profits incurred by cleans, a stabilished, affiliates or accounts acting out of or related to the performance of the sentence for many or complete and content of the sentence of the sentenc

Celecy D. Keine

Celey D. Keene, Lab Director/Quality Manager



ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Ci-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

ROSE NOTE: Labelly and Derages. Cardina's baility and clerch exclusive recently for any claim artists, related in content or tart, shall be limited to the amount paid by clerc for analyses. All claims, including these for analyses are any other cause exhibitions artists. In no sect that Cardinal he liable for including and received by Cardinal action totally (IE) days after completes of the application actions. In no sect that Cardinal he liable for including without installed, and the content installed, affiliates or accounts artisting to or related to the performance of the artists included in the content installed to the performance of the artists alternative to the performance of the artists are content accounts and analysis of the content accounts are content accounts and accounts are content accounts and account of the artists alternative to the performance of the artists are content accounts and accounts and accounts and accounts and account and accounts and accounts and accounts account and accounts and accounts and accounts account and accounts and account accounts and accounts and accounts and accounts and account accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts an account accounts and accounts an account accounts and accounts an account accounts an account accou

Page 1 of 1

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Page 4 of 4



October 09, 2012

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 10/03/12 14:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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Method EPA 524.2 Total Trihalomethanes (TTHM)
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Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene



R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 10/03/2012 Reported: 10/09/2012

10/09/2012 STATE QE 13 #1

none given

T12S-R34E-SEC13 U LTR O ~ LEA CTY -

Sampling Date:

09/27/2012

Sampling Type: Water

Sampling Condition: Co Sample Received By: Co

Cool & Intact Celey D. Keene

The Mark Street, 1992 to 1994 to 1994 to 1994

Sample ID: MW - 1 - D (H202411-01)

Project Name:

Project Number:

Project Location:

mg/L

Analyzed By: AP

Chloride, SM450UCI-B	mg	/L	Analyze	d by: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	64.0	4.00	10/08/2012	ND	100	100	100	3.92	
TDS 160.1	mg	/L	Analyze	d By: AP		1111111	11/1		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	527	5.00	10/04/2012	ND	269	112	240	0.456	

#### Sample ID: MW - 1 - S (H202411-02)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	570	4.00	10/08/2012	ND	100	100	100	3.92	
TDS 160.1	mg	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1430	5.00	10/04/2012	ND	269	112	240	0.456	

Cardinal Laboratories \*=Accredited Analyte

REAST NOTE: Labelly and Europea. Certifieds behilty and clerck exclusive remarks for any clean artising, whether based in content or tort, what he benefit to the amount paid by clean for analyses. All cleans, including those for negligence are any other cause whatevers shall be deemed varied unless made to writing and resonate by Certified within thiny (IC) days after completes of the application amount. In no award shall Certified be failed for including, without tentation, business interruptions, insee of use, or loss of profits incurred by cleans, a stabilished, affiliates or accounts acting out of or related to the performance of the sentence for many or complete and content of the sentence of the sentenc

Celeg D. Keine



ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Ci-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

ROSE NOTE: Labelly and Derages. Cardina's baility and clerch exclusive recently for any claim artists, related in content or tart, shall be limited to the amount paid by clerc for analyses. All claims, including these for analyses are any other cause exhibitions artists. In no sect that Cardinal he liable for including and received by Cardinal action totally (IE) days after completes of the application actions. In no sect that Cardinal he liable for including without installed, and the content installed, affiliates or accounts artisting to or related to the performance of the artists included in the content installed to the performance of the artists alternative to the performance of the artists are content accounts and analysis of the content accounts are content accounts and accounts are content accounts and account of the artists alternative to the performance of the artists are content accounts and accounts and accounts and accounts and account and accounts and accounts and accounts account and accounts and accounts and accounts account and accounts and account accounts and accounts and accounts and accounts and account accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts an account accounts and accounts an account accounts and accounts an account accounts an account accou

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Company Name: RT Hicks	mpany Name: RT Hicks Consultants		BILL TO Company: Yates Petroleum	Pet	Company atroleur	<sub>5</sub> E		Jen	PO# Jerry Fanning	POF	, g						A S	MAL	YSI	ANALYSIS REQUEST	20	EST						
Project Manager. Andrew Parker	res		Address:	× 45	Address:	(Street, City, Adesia, New Mexico 88210	82	w Me	Street vice 8	Street, City, Zip olco 88210	Zp)		_		_		2	-	5 -	<u> </u>	_	-	_	-		_	-	_
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901 Rio Gra	901 Rio Grande Bivd NIV Suite F-142 ~ Albuq, NM 87104		(575) 748-1471	748	147	_										7.00			-								_	_
Phone # (505) 266-5004		Fax 6.											_		(98:	7/801/0											()	
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Page 1 of 1



December 21, 2012

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 12/18/12 14:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

12/18/2012

Cool & Intact

Jodi Henson

Water



## Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Sampling Date:

Received: 12/18/2012

Reported: 12/21/2012

Project Name: STATE QE 13 #

12/21/2012 Sampling Type: STATE QE 13 #1 Sampling Condition: none given Sample Received By:

Project Location: T12S-R34E-SEC13 U LTR 0 ~ LEA CTY -

Sample ID: MW-1-D (H203043-01)

Project Number:

Chloride, 5M4500CI-B	mg	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	68.0	4.00	12/19/2012	ND	100	100	100	7.69	
TDS 160.1	mg	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	485	5.00	12/21/2012	ND	210	87.5	240	7.73	

#### Sample ID: MW-1-S (H203043-02)

Chioride, SM4500CI-B	mg	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	440	4.00	12/19/2012	ND	100	100	100	7.69	
TDS 160.1	mg	/L	Analyze	d By: AP	*		- FIGURE	100,000	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1200	5.00	12/21/2012	ND	210	87.5	240	7.73	

Cardinal Laboratories \*=Accredited Analyte

REAST NOTE: Labelly and Europea. Certifieds behilty and clerck exclusive remarks for any clean artising, whether based in content or tort, what he benefit to the amount paid by clean for analyses. All cleans, including those for negligence are any other cause whatevers shall be deemed varied unless made to writing and resonate by Certified within thiny (IC) days after completes of the application amount. In no award shall Certified be failed for including, without tentation, business interruptions, insee of use, or loss of profits incurred by cleans, a stabilished, affiliates or accounts acting out of or related to the performance of the sentence for many or complete and content of the sentence of the sentenc

Celecy D. Keine

Celey D. Keene, Lab Director/Quality Manager



ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Ci-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

ROSE NOTE: Labelly and Derages. Cardina's baility and clerch exclusive recently for any claim artists, related in content or tart, shall be limited to the amount paid by clerc for analyses. All claims, including these for analyses are any other cause exhibitions artists. In no sect that Cardinal he liable for including and received by Cardinal action totally (IE) days after completes of the application actions. In no sect that Cardinal he liable for including without installed, and the content installed, affiliates or accounts artisting to or related to the performance of the artists included in the content installed to the performance of the artists alternative to the performance of the artists are content accounts and analysis of the content accounts are content accounts and accounts are content accounts and account of the artists alternative to the performance of the artists are content accounts and accounts and accounts and accounts and account and accounts and accounts and accounts account and accounts and accounts and accounts account and accounts and account accounts and accounts and accounts and accounts and account accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts an account accounts and accounts an account accounts and accounts an account accounts an account accou

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Cardinal Laboratories, Inc.    State   Company   States   Petroleum   Jerry Fanning   Address   105 S 4th Street - Areaia, New Mexico 88210   Project Name:   Yates   Petroleum   Jerry Fanning   Project Name:   Yates   Petroleum   Jerry Fanning   Project Name:   Yates   Petroleum   Jerry Fanning   Jersy   Jer
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Page 4 of 4



April 04, 2013

ANDREW PARKER
R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 03/28/13 14:43.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)

Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celecy D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



# Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104

Fax To: NONE

 Received:
 03/28/2013

 Reported:
 04/04/2013

 Project Name:
 STATE QE 13 #1

 Project Number:
 NOT GIVEN

Sampling Date: Sampling Type: Sampling Condition: Sample Received By: 03/28/2013 Water Cool & Intact

Jodi Henson

Project Location:

T12S-R34E-SEC13 U LTR O ~ LEA CTY -

Sample ID: MW - 1 - D (H300749-01)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	64.0	4.00	04/01/2013	ND	108	108	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: AP		<u> </u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	480	5.00	04/03/2013	ND	240	100	240	1.92	

#### Sample ID: MW - 1 - S (H300749-02)

Chioride, SM4500CI-B	mg	/L	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	440	4.00	04/01/2013	ND	108	108	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: AP	*		- FIGURE	A. 10.100	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1240	5.00	04/03/2013	ND	240	100	240	1.92	

Cardinal Laboratories \*=Accredited Analyte

RANCE NOTE: Liability and Danages. Cardinal's biolity and disets exclusive received to any claim artists; disettle based in contact or tort, shall be broked to the amount paid by client for analyses. All claims, including those for suppliers are only other conservations of the application service. In no sent shall Cardinal be liable for including and received dynamics of the application of the application of the application of the services because of the services between the cardinal part of the control to the preference of the services because of the

Celecy D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Ci-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

RANS NOTE: Liability and Demagns. Cardina's liability and clients, excitative mends for any clien white, whether based in content or tort, shall be formed to the amount paid by client for analyses. All clients, including those for impligance and any other cases extraparent shall be destroal method unless made in writing and received by Cardinal William (E) days after complettes of the application amount. In no exerct shall Cardinal be liable for including destroad, extraparent shall be destroad unless of same, or loss of profits incurred by client, the administration, profits on accommon and or or related to the performance of the amounts incurred by Cardinal, regardless of whether such clients is based upon any of the above stated resource or otherwise. Results relates only to the samples identified above. This report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Celeny D. Keine

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	Other: 1.5	4	Time	1202 14.47	Time: Rec								G	G	(G)	)rab c	FIELD CODE	ıp	~ Lea County -			Fax	-142 ~ Albuq, NM 87104					Cardinal	
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July 09, 2013

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 06/27/13 8:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.toeq.texas.gov/field/ga/lab\_accred\_certif.html">www.toeq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)

Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celecy D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



# Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

 Received:
 06/27/2013

 Reported:
 07/09/2013

 Project Name:
 STATE QE 13 #1

 Project Number:
 NOT GIVEN

Sampling Type: Sampling Condition: Sample Received By:

Sampling Date:

Water Cool & Intact Jodi Henson

06/26/2013

Project Location: T12S-R34E-SEC13 U LTR O ~ LEA CTY -

Sample ID: MW-1-D (H301522-01)

Chloride, SM4500CI-B mg/L Analyzed By: DW Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier 68.0 Chloride\* 06/28/2013 ND 108 0.00 4.00 108 100 TDS 160.1 Analyzed By: AP mg/L Reporting Limit Method Blank True Value QC Result Analyzed BS % Recovery RPD Qualifier TDS\* 500 5.00 07/03/2013 ND 244 102 240 0.157

#### Sample ID: MW-1-S (H301522-02)

Chioride, SM4500CI-B	mg	/L	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	452	4.00	06/28/2013	ND	108	108	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: AP	*		- FIGURE	Academy	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1290	5.00	07/03/2013	ND	244	102	240	0.157	

Cardinal Laboratories \*=Accredited Analyte

RANCE NOTE: Liability and Danages. Cardinal's biblity and disets exclusive receipt for any claim artising claims in content or text, shall be broked to the amount paid by client for analyses. All claims, including those for negligence an any other cause velocities with the desired unique track in the content of the application service. In no seest shall Cardinal be liable for including activities below the professional interruptions, less of use, or loss of profes recurred by darket, attribute, affiliates or accessors artising out of or related to the performance of the services between the content and only on the professional accessors artising out of or related to the performance of the services between the content accessors are content and the content accessors are content and the content accessors are content and the content accessors are content and the content accessors are content and the content accessors are content and the content accessors are content and the content accessors are content and the content accessors are content and the content accessors are content and the content accessors are content and the content accessors are content and the content accessors are content and the content accessors are content and the content accessors are content and the content accessors are content and the content accessors are content and the content accessors are content and the content accessors are content accessors are content and the content accessors are content accessors and the content accessors are content accessors and the content accessors are content accessors.

Celecy D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Ci-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

RANS NOTE: Liability and Demagns. Cardina's liability and clients, excitative mends for any clien white, whether based in content or tort, shall be formed to the amount paid by client for analyses. All clients, including those for impligance and any other cases extraparent shall be destroal method unless made in writing and received by Cardinal William (E) days after complettes of the application amount. In no exerct shall Cardinal be liable for including destroad, extraparent shall be destroad unless of same, or loss of profits incurred by client, the administration, profits on accommon and or or related to the performance of the amounts incurred by Cardinal, regardless of whether such clients is based upon any of the above stated resource or otherwise. Results relates only to the samples identified above. This report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Celeny D. Keine

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September 28, 2013

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 09/25/13 16:06.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.toeq.texas.gov/field/ga/lab\_accred\_certif.html">www.toeq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)

Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celecy D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



# Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

 Received:
 09/25/2013

 Reported:
 09/28/2013

 Project Name:
 STATE QE 13 #1

 Project Number:
 NOT GIVEN

Sampling Date: Sampling Type: Sampling Condition: Sample Received By: 09/24/2013 Water Cool & Intact

Jodi Henson

Project Number: Project Location:

T12S-R34E-SEC13 U LTR O ~ LEA CTY -

Sample ID: MW - 1 - D (H302333-01)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	56.0	4.00	09/27/2013	ND	100	100	100	7.69	
TDS 160.1	mg	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	479	5.00	09/27/2013	ND	242	101	240	1.87	

#### Sample ID: MW - 1 - S (H302333-02)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	470	4.00	09/27/2013	ND	100	100	100	7.69	
TDS 160.1	mg	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1320	5.00	09/27/2013	ND	242	101	240	1.87	

Cardinal Laboratories \*=Accredited Analyte

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Celecy D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Ci-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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Celeny D. Keine

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	andrew@rthicksc lern/f@yatespetro rozanne@yalorne	REMARKS: Email Results to:	Yes No	Yes										BTEX 8260 TPH 418.1/TX1005 / TX1 PAH 8270C Total Metals Ag As Ba Cd TCLP Metals Ag As Ba Cd TCLP Volatiles TCLP Semi Volatiles TCLP Pesticides RCI	d Cr Pb Se Hg d Cr Pb Se H	6010E				ANALYSIS REQUE	LAB Order ID #	CHAIN-OF-CUSTODY AND A
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	andrew@rthicksconsult.com jerryf@vatespetrojeum.com rozanne@valornet.com	REMARKS: Email Results to:	Yes No	Yes							$\neg$	$\neg$	×	BTEX 8260 TPH 418.1/TX1005 / TX1 PAH 8270C Total Metals Ag As Ba Cd TCLP Metals Ag As Ba Cd TCLP Volatiles TCLP Semi Volatiles TCLP Pesticides RCI GC/MS Vol. 8260B/624 GC/MS Semi. Vol. 82700 PCB's 8082/608 Pesticides 8081A/608 BOD, TSS, pH Moisture Content Cations (Ca, Mg, Na, K) Anions (Cl, SO4, CO3, H	d Cr Pb Se Hg d Cr Pb Se Hg Cx625 HCO3)	60108				ANALYSIS REQUEST (Circle or Specify Method No.)	LAB Order ID #	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



January 09, 2014

ANDREW PARKER

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 12/31/13 14:46.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)

Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celecy D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



# Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 12/31/2013

Reported: 01/09/2014

Project Name: STATE QE 13 #1

Sampling Date: Sampling Type: Sampling Condition: Sample Received By:

Water Cool & Intact Jodi Henson

12/30/2013

Project Number: none given Project Location: T12S-R34E-

T12S-R34E-SEC13 U LTR O ~ LEA CTY -

#### Sample ID: MW - 1 - D (H303168-01)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	52.0	4.00	01/08/2014	ND	104	104	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	465	5.00	01/09/2014	ND	458	86.9	527	2.93	

#### Sample ID: MW - 1 - S (H303168-02)

Chioride, SM4500CI-B	mg	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	436	4.00	01/08/2014	ND	104	104	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: AP			- FIRSTO	A. A. A. A. A. A. A. A. A. A. A. A. A. A	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1170	5.00	01/09/2014	ND	458	86.9	527	2.93	

Cardinal Laboratories \*=Accredited Analyte

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Celecy D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Ci-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

RANS NOTE: Liability and Demagns. Cardina's liability and clients, excitative mends for any clien white, whether based in content or tort, shall be formed to the amount paid by client for analyses. All clients, including those for impligance and any other cases extraparent shall be destroal method unless made in writing and received by Cardinal William (E) days after complettes of the application amount. In no exerct shall Cardinal be liable for including destroad, extraparent shall be destroad unless of same, or loss of profits incurred by client, the administration, profits on accommon and or or related to the performance of the amounts incurred by Cardinal, regardless of whether such clients is based upon any of the above stated resource or otherwise. Results relates only to the samples identified above. This report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Celeny D. Keine

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Selple Condition		Received by:			-		1	6	$^{+}$	9	(G)rab or (C)omp	Ř	Yates			
Washington Stam		,						×	,	×	AIR SLUDGE	Address:	Yates Petroleum	_	ahorate	
Date: Time: 12/31/13 CHECKED 8X (Initials)		Date: Time:						-		1	HCL (2.40mi VOA) HNO3 NaHSO4 H <sub>2</sub> SO4 ICE (1-1Liter HDPE) NONE DATE (2013) SAMPL	(Street City, Zip)	Katie Parker	Ji ies, III	prior In	
44.41				+			+	12/30 14:00	12/00 13:05	49.00	DATE (2013) SAMPLING TIME			c.	,	
REMARKS: Email Results to:	Fax Results	Phone Results									MTBE 80218/602  BTEX 8260  TPH 418.1/TX1005 / TX1005 Extended (C35)  PAH 8270C  Total Metals Ag As Ba Cd Cr Pb Se Hg 60108/200.7	- ·			CHAIN	
	Yes	Yes						-			TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles TCLP Pessicides	(Circle or	ANAL	LAB Order ID#	CHAIN-OF-CUSTODY	
andrew@rthicksconsult.com Katie Parker [Katie@yatespetroleum.com] rozanne11@windstream.net	No Additio	No									PCI GC/MS Vol. 82608/624 GC/MS Semi. Vol. 8270C/625 PCB's 8082/608	Circle or Specify Method No.	ANALYSIS REQUEST	*	ODY AND	
consult.com lie@yatespe dstream.net	Additional Fax Number										Pesticides 8081A/608 300, TSS, pH Moisture Content	- No.)	EST		AND ANALYSIS REQUEST	Dana
troleum.co	ЭВГ						#	×	×	1	Cations (Ca, Mg, Na, K) Anions (Cl, SO4, CO3, HCO3) Total Dissolved Solids (160.1 / SM2540C)				REQUEST	
臣						1	$\pm$	×	×	+	Chlorides (325.3 / SM4500 B) Furn Around Time ~ 24 Hours	Ē	Page	940	of 4	1



April 09, 2014

ANDREW PARKER
R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE, NM 87104

RE: STATE QE 13 #1

Enclosed are the results of analyses for samples received by the laboratory on 04/03/14 13:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)

Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celecy D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



# Analytical Results For:

R T HICKS CONSULTANTS
ANDREW PARKER
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

 Received:
 04/03/2014

 Reported:
 04/09/2014

 Project Name:
 STATE QE 13 #1

 Project Number:
 NOT GIVEN

Sampling Date: Sampling Type: Sampling Condition: Sample Received By: 03/28/2014 Water Cool & Intact Jodi Henson

Project Location: T12S-R34E-SEC13 U LTR O ~ LEA CTY -

Sample ID: MW - 1 - D (H400997-01)

Chloride, SM4500CI-B mg/L Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride\* 60.0 04/04/2014 ND 100 0.00 4.00 100 100 TDS 160.1 Analyzed By: AP mg/L Reporting Limit Method Blank True Value QC Result Analyzed BS % Recovery RPD Qualifier TDS\* 524 5.00 04/07/2014 ND 93.7 527 0.00

#### Sample ID: MW - 1 - S (H400997-02)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	412	4.00	04/04/2014	ND	100	100	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: AP				A. A. A. A. A. A. A. A. A. A. A. A. A. A	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1110	5.00	04/07/2014	ND	494	93.7	527	0.00	

Cardinal Laboratories \*=Accredited Analyte

RANCE NOTE: Labelly and Danages. Cardina's labelly and directs exclusive recently for any claim artising should research in contract or tort, shall be listed to the amount paid by client for analyses. All claims, including those for negligence and any other consenses shall be deemed watered using make a second of the application service. In no sees shall Cardinal be labelle for including, without including, without including, believes interruptions, interruptions, interruptions, in or see, or loss of profits incomed by client, its substitutes, affiliates or accessors artising out of or related to the performance of the services inemated by Cardinal Section 2018.

See a substitute of the allowed contract inemated contracts only to the amplies identified above. This report shall except spont and or performance of Cardinal Laboratories.

Celecy D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Ci-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

RANS NOTE: Liability and Demagns. Cardina's liability and clients, excitative mends for any clien white, whether based in content or tort, shall be formed to the amount paid by client for analyses. All clients, including those for impligance and any other cases extraparent shall be destroal method unless made in writing and received by Cardinal William (E) days after complettes of the application amount. In no exerct shall Cardinal be liable for including destroad, extraparent shall be destroad unless of same, or loss of profits incurred by client, the administration, profits on accommon and or or related to the performance of the amounts incurred by Cardinal, regardless of whether such clients is based upon any of the above stated resource or otherwise. Results relates only to the samples identified above. This report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Celeny D. Keine

101 East Marland - Hobbs, New 575) 303-2526 901 Rio Grande Blvd NW Suite RT Hicks Consultants Delivered By: State QE 13 #1 Andrew Parker T12S-R34E-Sec13 Unit Letter O ~ Lea (505) 266-5004 npany Name LAB USE LAB# ONLY (575) 380-247¢ (Street, City, Zip) UPS (Circle One) P-1-MM NW-1-8 Tul Fax Bus -Date FIELD CODE F-142-Other: me Cardinal Laboratories, Inc Albuq, NM 87104 County - New Mexico PER Received (G)rab or (C)omp 0 0 ilved By Yates Petroleum Yates Petroleum BILL TO Company (575) 748-1471 105 S 4th Street ~ Artesia No Ye roject Name # CONTAINERS g No WATER × SOIL MATRIX ratory Staff) AIR SLUDGE HCL (2.40ml VOA) (Initials) CHECKED BY PRESERVATIVE Katie Parker HNO<sub>3</sub> Mexico 88210 Date 0816 METHOD NaHSO<sub>4</sub> Street, City, Zip H<sub>2</sub>SO<sub>4</sub> Fault POP ICE (1-1Liter HDPE) Time: NONE SAMPLING 3/28 3/28 **DATE (2014)** 13.2 9:30 8:35 TIME 6 MTBE 8021B/602 REMARKS: Phone Results ax Results BTEX 8260 Email Results to: TPH 418.1/TX1005 / TX1005 Extended (C35) CHAIN-OF-CUSTODY AND ANALYSIS REQUEST PAH 8270C Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 LAB Order ID# TCLP Metals Ag As Ba Cd Cr Pb Se Hg Circle or Specify Method No. TCLP Volatiles ANALYSIS REQUEST SOA Yes TCLP Semi Volatiles andrew@rthicksconsult.com Katie Parker [Katie@yatespetroleum.com] rozanne11@windstream.net TCLP Pesticides RCI S No GC/MS Vol. 8260B/624 GC/MS Semi. Vol. 8270C/625 Additional Fax Number PCB's 8082/608 Pesticides 8081A/608 BOD, TSS, pH Moisture Content Cations (Ca, Mg, Na, K) Anions (CI, SO4, CO3, HCO3) Total Dissolved Solids (160.1 / SM2540C) Chlorides (325.3 / SM4500 B) Page 4 of 4 Turn Around Time ~ 24 Hours

# **Appendix B**

# Analytical Report 299688

for

# R.T. Hicks Consultants, LTD

Project Manager: Randy Hicks

Pride Energy Company State QE 13 #1

20-MAR-08



12600 West I-20 East Odessa, Texas 79765

Texas certification numbers: Houston, TX T104704215

Florida certification numbers: Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675 Norcross(Atlanta), GA E87429

> South Carolina certification numbers: Norcross(Atlanta), GA 98015

> North Carolina certification numbers: Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America Midland - Corpus Christi - Atlanta





20-MAR-08

Project Manager: Randy Hicks R.T. Hicks Consultants, LTD 901 Rio Grande Blvd. NW, Suite F-142

Albuquerque, NM 87104

Reference: XENCO Report No: 299688
Pride Energy Company

Project Address: T12S-R34E, Section 1, Unit Letter L

#### Randy Hicks:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 299688. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 299688 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

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# Sample Cross Reference 299688



# R.T. Hicks Consultants, LTD, Albuquerque, NM

Pride Energy Company

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	Mar-13-08 12:35		299688-001



# Certificate of Analysis Summary 299688 R.T. Hicks Consultants, LTD, Albuquerque, NM

Project Name: Pride Energy Company

Project Id: State QE 13 #1 Date Received in Lab: Mar-14-08 05:16 pm

Contact: Randy Hicks Report Date: 20-MAR-08

Project Location: T12S-R34E, Section 1, Unit Letter L Project Manager: Brent Barron, II

53 EN 08109 11 11 15	Lab Id:	299688-001			
Analysis Requested	Fleid Id:	MW-1			
20147 EX	Depth:				
	Matric:	WATER			
	Sampled:	Mar-13-08 12:35			
Anions by EPA 300/300.1	Extracted:	****			
Amons by EFA 300/300.1	Analyzed:	Mar-15-08 10:29			
	Units/RL:	mg/L RL			
Chloride	500	4340 50.0			
Sulfate	1.0	566 50.0			
BTEX by EPA 8021B	Extracted:	Mar-19-08 10:00			
BIEA by EFA 6021B	Analyzed:	Mar-19-08 17:26			
	Units/RL:	mg/L RL			
Benzene		ND 0.0010			
Toluene		ND 0.0020			
Ethylbenzene		ND 0.0010			
m.p-Xylenes		ND 0.0020			
o-Xylene		ND 0.0010			
Xylenes, Total		ND			
Total BTEX		ND			
Metals per ICP by SW846 6010B	Extracted:				
metals per real by 5 more dolor	Analyzed:	Mar-17-08 16:36			
	Units/RL:	mg/L RL			
Calcium	- 10	506 0.100			
Magnesium		120 0.010			
Potassium		4.93 0.500			
Sodium		1060 0.500			
TDS by SM2540C	Extracted:		4		
LDS by Shi 2540C	Analyzed:	Mar-17-08 16:00			
	Units/RL:	mg/L RL			
Total dissolved solids		6040 5.00			
Total Alkalinity by EPA 310.1	Extracted:	Total Assessment Control			
Total Alkalility by ETA 510.1	Analyzed:	Mar-17-08 14:15			
	Units/RL:	mg/L RL			
Alkalinity, Total (as CaCO3)		450 4.00			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount involced for this work order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi

Brent Barron

Odessa Laboratory Director

# XENCO Laboratories

# Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- Outside XENCO'S scope of NELAC Accreditation

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Fax Phone 11381 Mendowglen Lane Suite L Houston, Tx 77082-2647 (281) 589-0692 (281) 589-0695 (214) 902 0300 9701 Harry Hines Blvd , Dallas, TX 75220 (214) 351-9139 5332 Blackberry Drive, Suite 104, San Antonio, TX 78238 (210) 509-3334 (210) 509-3335 (813) 620-2000 (813) 620-2033 2505 N. Falkenburg Rd., Tampa, FL 33619 (305) 823-8500 (305) 823-8555 5757 NW 158th St, Miami Lakes, FL 33014 6017 Financial Dr., Norcross, GA 30071 (770) 449-8800 (770) 449-5477



4-Bromofluorobenzene

# Form 2 - Surrogate Recoveries



Project Name: Pride Energy Company

Work Order #: 299688 Project ID: State QE 13 #1

Lab Batch #: 717610 Sample: 299447-003 S/MS Batch: 1 Matrix: Water

SURROGATE RECOVERY STUDY Units: mg/L Control BTEX by EPA 8021B Amount Found Limits Amount Recovery Flags [A] [B] %R %R D Analytes 1,4-Diffuorobenzene 0.0307 0.0300 102 80-120 4-Bromofhorobenzene 0.0320 0.0300 107 80-120

Lab Batch #: 717610 Sample: 299447-003 SD / MSD Batch: 1 Matrix: Water

Units: mg/L SURROGATE RECOVERY STUDY Amount True Control BTEX by EPA 8021B Limits Found Amount Recovery Flags (B) %R %R [A] D Analytes 1,4-Diffuorobenzene 0.0309 0.0300 103 80-120

0.0322

0.0300

107

80-120

Lab Batch #: 717610 Sample: 299688-001/SMP Batch: 1 Matrix: Water

SURROGATE RECOVERY STUDY Units: mg/L Amount True Control BTEX by EPA 8021B Limits Flags Found Amount Recovery [B] %R %R [A] D Analytes 1,4-Diffmorobenzene 0.0329 0.0300 110 80-120 4-Bromofluorobenzene 0.0324 0.0300 108 80-120

Lab Batch #: 717610 Sample: 506150-1-BKS/BKS Batch: 1 Matrix: Water

SURROGATE RECOVERY STUDY Units: mg/L BTEX by EPA 8021B Amount True Control Limits Flags Found Amount Recovery [A]B %R %R [D]Analytes 1,4-Diffuorobenzene 0.0336 0.0300 112 80-120 4-Bromofluorobenzene 0.0300 0.0353 118 80-120

Lab Batch #: 717610 Sample: 506150-1-BLK / BLK Batch: 1 Matrix: Water

Units: mg/L SURROGATE RECOVERY STUDY Control BTEX by EPA 8021B Amount Found Recovery Limits Flags %R A B %R [D]Analytes 1,4-Diffuorobenzene 0.0327 0.0300 109 80-120 4-Bromoffporobenzene 0.0328 0.0300 109 80-120

All results are based on MDL and validated for QC purposes.

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution Surrogate Recovery [D] = 100 \* A / B



# Form 2 - Surrogate Recoveries



Project Name: Pride Energy Company

Work Order #: 299688 Project ID: State QE 13 #1

Lab Batch #: 717610 Sample: 506150-1-BSD/BSD Batch: 1 Matrix: Water

SURROGATE RECOVERY STUDY Units: mg/L Control Amount BTEX by EPA 8021B Flags Found Amount Recovery Limits [B] %R %R [A] [D] Analytes 1,4-Diffuorobenzene 0.0306 0.0300 102 80-120 4-Bromofhorobenzene 80-120 0.0331 0.0300 110

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# **Blank Spike Recovery**



Project Name: Pride Energy Company

Work Order #: 299688 Project ID: State QE 13 #1

 Lab Batch #: 717368
 Sample: 717368-1-BKS
 Matrix: Water

 Date Analyzed: 03/17/2008
 Date Prepared: 03/17/2008
 Analyst: WRU

Reporting Units: mg/L	Batch #: 1	BLANK/	BLANK SP	IKE REC	OVERY	STUDY
Total Alkalinity by EPA 310.1	Blank Result	Spike Added	Blank Spike	Blank Spike %R	Control Limits %R	Flags
Analytes	[A]	(B)	Result [C]	[D]	Yes	
Alkalinity, Total (as CaCO3)	ND	200	172	86	80-120	ĝ

Lab Batch #: 717419 Sample: 717419-1-BKS Matrix: Water

Date Analyzed: 03/15/2008 Date Prepared: 03/15/2008 Analyst: LATCOR

Reporting Units: mg/L	Batch #: 1	BLANK	BLANK SP	IKE REC	OVERY	STUDY
Anions by EPA 300/300.1	Blank Result	Spike Added	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags
Analytes	[A]	(B)	[C]	[D]	7680	40.0000
Chloride	ND	10.0	9.45	95	85-115	
Sulfate	ND	10.0	8.71	87	90-110	L



# BS / BSD Recoveries



Project Name: Pride Energy Company

Work Order #: 299688

Analyst: SHE

Date Prepared: 03/19/2008

Project ID: State QE 13 #1 Date Analyzed: 03/19/2008

Lab Batch ID: 717610	Sample: 506150-1-BKS	KS	Batch #: 1	#: 1					Matrix: Water	Vater		
Unite: mg/L			BLAN	BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	SPIKE / E	LANKS	PIKE DUP	CATE !	RCOVE	RY STUD	Y.	
BTEX by EPA 8021B Analytes	1 802 IB	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spilee %R [D]	Spille Added	Blank Spike Duplicate Result [F]	Buk. Spk Dup. %R [G]	RPD %	Control Limits	Control Linds	Mag
Вепасне		ND	0.1000	0.0867	18	0.1	0.0848	88	24	70-125	25	
Toluene		N N	0.1000	89800	87	0.1	0.0848	85	2	70-125	25	
Ethylbenzene		ND ND	0.1000	91600	25	0.1	0.0685	8	3	71-129	25	
m.p-Xylanes		QV.	0.2000	0.1841	35	07	0.1774	68	4	70-131	z	
o-Xykne		QN	0.1000	86600	100	0.1	6560'0	*	4	71-133	n	

Relative Percent Difference R.PD = 2007(D-F)/(D-F) Blank Spile Recovery [D] = 100\*(C/fB] Blank Spile Duplicate Recovery [G] = 100\*(F)/(E) All results are based on MDL and Validated for QC Purposes



# Form 3 - MS Recoveries

Project Name: Pride Energy Company



Work Order #: 299688

Lab Batch #: 717419 Project ID: State QE 13 #1

Date Analyzed: 03/15/2008

Date Prepared: 03/15/2008 Analyst: LATCOR

QC- Sample ID: 299690-001 S Batch #:

Matrix: Water

Reporting Units: mg/L	MATI	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	4150	1000	5250	110	85-115	
Sulfate	415	1000	1400	99	90-110	

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B Relative Percent Difference [E] = 200\*(C-A)/(C+B) All Results are based on MDL and Validated for QC Purposes



# Form 3 - MS / MSD Recoveries

# Project Name: Pride Energy Company



Work Order #: 299688

Lab Batch ID: 717610

Date Analyzed: 03/19/2008

QC-Sample ID: 299447-003 S Date Prepared: 03/19/2008

Batch #:

SHE Analyst:

Matrix: Water

Project ID: State QE 13 #1

sporting Units: ng/L		M	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	/ MAT	RIX SPI	KE DUPLICA	TE REC	DVERY	STUDY		
BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup.	IPD %	Control Limits	Centrel Linds %RPD	Plag
Ветсет	QN	0.1000	0.1038	104	0.1000	0.1121	112	7	70-125	25	
Tolume	Q	0.1000	0.1030	1003	0.1000	0.1122	112	*	70-125	25	
Ethylbenzene	Q.	0.1000	0.1055	900	0.1000	0.116	911	6	71-129	R	
m.p-Xylenes	QN	0.2000	0.2079	70	0.2000	0.229	1115	01	70-131	25	
o-Xylene	QN	0.1000	0.1095	011	0.1000	0.1212	121	10	71-133	25	

Mentix Spike Daplicate Percent Recovery [G] = 100° (F-A)/II.

ND - Not Detected, J - Provet Below Reporting Limit, B - Present in Black, NR - Not Requested, I - Interference, NA - Not ApplicableN - See Narmine, BQL - Betmated Quantitation Limit

Matrix Spike Percent Recovery [D] = 100 V(C-A)/B
Relative Percent Difference RPD = 200 (D-G)/(D+G)



# Sample Duplicate Recovery



Project Name: Pride Energy Company

Work Order #: 299688

Lab Batch #: 717419 Date Analyzed: 03/15/2008

QC-Sample ID: 299690-001 D

Project ID: State QE 13 #1

Date Prepared: 03/15/2008 Analyst: LATCOR

Batch #: 1 Matrix: Water

Reporting Units: mg/L	SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Anions by EPA 300/300.1  Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	4150	4140	0	20	
Sulfate	415	406	2	20	

Lab Batch #: 717329

Date Analyzed: 03/17/2008 Date Prepared: 03/17/2008 Analyst: LATCOR QC- Sample ID: 299654-001 D Batch #: 1 Matrix: Water

Reporting Units: mg/L SAMPLE / SAMPLE DUPLICATE RECOVERY

Metals per ICP by SW846 6010B  Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Calcium	45.1	45.8	2	25	
Magnesium	22.6	21.8	4	25	
Potassium	8.64	8.45	2	25	e e
Sodium	172	172	0	25	0

Lab Batch #: 717538

 Date Analyzed: 03/17/2008
 Date Prepared: 03/17/2008
 O3/17/2008
 Analyst: RBA

 QC-Sample ID: 299683-002 D
 Batch #: 1
 Matrix: Water

Reporting Units: mg/L SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte	(A)	[B]			
Total dissolved solids	978	972	1	30	

Lab Batch #: 717368

 Date Analyzed: 03/17/2008
 Date Prepared: 03/17/2008
 O3/17/2008
 Analyst: WRU

 QC- Sample ID: 299680-001 D
 Batch #: 1
 Matrix: Water

Reporting Units: mg/L SAMPLE / SAMPLE DUPLICATE RECOVERY

responding comment and a					
Total Alkalinity by EPA 310.1  Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Alkalinity, Total (as CaCO3)	228	236	3	20	
Alkalinity, Carbonate (as CaCO3)	ND	ND	NC	20	
Alkalinity, Bicarbonate (as CaCO3)	ND	ND	NC	20	

Spike Relative Difference RPD 200 \* | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes.

314-08 47.15 whichers and oncoder TACT beab uberbil-eng TAT HBUR Pajed Locatos, T125-R34E, Section 1, Unit Letter L. NV bes of late? coc+ 50E13-1-0308 CHAIN OF CUSTODY RECOND AND ANALYSIS REGUEST \$161 d'1d9 Sample Cartainers Had?

Temperature Upon Receipt: -). S
Laboratory Comments: C-1880 shield benkezildishi Paped Neme: Pride Energy Company Preject #: State QE 13 #1 CERTIFICATION OF THE PROPERTY etons
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X 1 0 ( 120 Aust Email results to: n@rthicksconsult.com and gilbertvandeventen@suddenlink.net FOAR SC CA No. of Certainers pertures yazı XENCO Laboratories / Environmental Lab of Texas 1360 west 30 fact 425 650 500 ceres. Texas 1995 ander Received by: Date Sampled somme Gil Van Deventer Conpany Name R. T. Hicks Consultants, Ltd. Company Anterest, 901 Rio Grande Blud NW Chy, State, Zip Code, Albuquerque NM 87104 FIRLD CODE Telephone No. 505-288-5004 Project Manager: Randy Hicks 889562 Special transcriber. All F (so use only)

# Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-in

Client	P.T. Hichs
Date! Time.	3-M-08 4:15
Lab ID # :	279688
le Finle	aL

# Sample Receipt Checklist

F1 Temperature of container/ cooler?	Yes	No	-1.5 °C
K2 Shipping container in good condition?	Yes	No	
Custody Seals intact on shipping container/ cooler?	469	No	Not Present
64 Custody Seals intact on sample bottles/ container?	Yes	No	Not Present?
P5 Chain of Custody present?	/63/	No	
26 Sample instructions complete of Chain of Custody?	Yea	No	
F7 Chain of Custody signed when resinquished/ received?	469	No	
AS Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont / Uid
#9 Container label(s) legible and intact?	(G)	No	Not Applicable
#10 Sample metric/ properties agree with Chain of Custody?	1 gs	No	
#11 Containers supplied by ELOT?	Yes	No	
#12 Samples in proper container/ bottle?	Yes	No	See Below
#13 Samples properly preserved?	Yes	No	See Below
#14 Sample bottles intact?	K@y	No	
#15 Preservations documented on Chain of Custody?	<b>19</b>	No	
#16 Containers documented on Chain of Custody?	Yas	No	
#17 Sufficient sample amount for indicated test(s)?	Yes	No	See Below
#18 All samples received within sufficient hold time?	Yes	No	See Below
#19 Subcontract of sample(s)?	Yes	No	,#ISE Applicable
#20 VOC samples have zero headspace?	199	No	Not Applicable

#### Variance Documentation

Contact		Contacted by.	Date/ Time:	
Corrective Action Taker	*			
Check all that Apply	000	See attached e-mail/ fax Client understands and would like to proceed Cooling process had begun shortly after samp		

# Analytical Report 306330

for

# R.T. Hicks Consultants, LTD

Project Manager: Andrew Parker

Pride Energy Company State QE 13 # 1

27-JUN-08



12600 West I-20 East Odessa, Texas 79765

Texas certification numbers: Houston, TX T104704215

Florida certification numbers: Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675 Norcross(Atlanta), GA E87429

> South Carolina certification numbers: Norcross(Atlanta), GA 98015

North Carolina certification numbers: Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America Midland - Corpus Christi - Atlanta





27-JUN-08

Project Manager: Andrew Parker R.T. Hicks Consultants, LTD 901 Rio Grande Blvd. NW, Suite F-142 Albuquerque, NM 87104

Reference: XENCO Report No: 306330 Pride Energy Company

Project Address: T12S-R34E, Section 13, Unit Letter O

#### Andrew Parker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 306330. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 306330 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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# Sample Cross Reference 306330



## R.T. Hicks Consultants, LTD, Albuquerque, NM

Pride Energy Company

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	w	Jun-19-08 07:20		306330-001
MW-1 Deep	W	Jun-19-08 08:05		306330-002



## Certificate of Analysis Summary 306330 R.T. Hicks Consultants, LTD, Albuquerque, NM

Project Name: Pride Energy Company

Project Id: State QE 13 # 1 Date Received in Lab: Jun-20-08 05:00 pm

Contact: Andrew Parker Report Date: 27-JUN-08

Project Location: T12S-R34E, Section 13, Unit Letter O Project Manager: Brent Barron, II

The second second	Lab Id:	306330-0	01	306330-0	02	
Analysis Requested	Fleid Id:	MW-1		MW-I De	ер	
3.50	Depth:					
	Matrix:	WATER	1	WATER		
	Sampled:	Jun-19-08 0	7:20	Jun-19-08 0	8:05	
Alkalinity by SM2320B	Extracted:	- 11 11 1			1	7
Alkalility by SM2520B	Analyzed:	Jun-26-08 1	0:45	Jun-26-08 1	0:45	
	Units/RL:	mg/L	RL	mg/L	RL	
Alkalinity, Total (as CaCO3)	500	236	4.00	180	4.00	
Alkalinity, Bicarbonate (as CaCO3)		236	4.00	180	4.00	
Alkalinity, Carbonate (as CaCO3)	00000	ND	4.00	ND	4.00	
Inorganic Anions by EPA 300	Extracted: Analyzed: Units/RL:	Jun-23-08 0 mg/L	8:50 RL	Jun-23-08 0 mg/L	8:50 RL	
Chloride	200	1760	100	66.7	12.5	
Sulfate		348	100	132	12.5	
Metals per ICP by SW846 6010B	Extracted: Analyzed: Units/RL:	Jun-23-08 1 mg/L	1:59 RL	Jun-23-08 1 mg/L	1:59 RL	
Calcium		288	0.100	65.8	0.100	
Magnesium		70.4	0.010	15.6	0.010	
Potassium		2.88	0.500	2.76	0.500	
Sodium		751	0.500	63.4	0.500	
TDS by SM2540C	Extracted:  Analyzed:  Units/RL:	Jun-23-08 1 mg/L	6:30 RL	Jun-23-08 1 mg/L	6:30 RL	
Total dissolved solids	1.0	3310	5.00	464	5.00	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount involced for this work order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi

Brent Barron

Odessa Laboratory Director

# XENCO Laboratories

## Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- Outside XENCO'S scope of NELAC Accreditation

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# **Blank Spike Recovery**



Project Name: Pride Energy Company

Work Order #: 306330 Project ID: State QE 13 # 1

 Lab Batch #: 726566
 Sample: 726566-1-BKS
 Matrix: Water

 Date Analyzed: 06/26/2008
 Date Prepared: 06/26/2008
 Analyst: WRU

Reporting Units: mg/L	Batch #: 1	BLANK/BLANK SPIKE RECOVERY STUDY				STUDY
Alkalinity by SM2320B	Blank Result	Spike Added	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags
Analytes	[A]	(B)	[C]	[D]	705	
Alkalinity, Bicarbonate (as CaCO3)	ND	200	176	88	80-120	į.

Lab Batch #: 726337 Sample: 726337-1-BKS Matrix: Water

Date Analyzed: 06/23/2008 Date Prepared: 06/23/2008 Analyst: LATCOR

Reporting Units: mg/L	Batch #: 1 BLANK /BLANK SPIKE			IKE REC	KE RECOVERY STUDY		
Inorganic Anions by EPA 300	Blank Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags	
Analytes	[A]	(B)	Result [C]	%R [D]	%R	-0.00000	
Chloride	ND	10.0	11.6	116	80-120		
Sulfate	ND	10.0	12.0	120	80-120	S	



## Form 3 - MS Recoveries

Project Name: Pride Energy Company



Work Order #: 306330 Lab Batch #: 726337

QC-Sample ID: 306329-001 S

Project ID: State QE 13 # 1

Date Analyzed: 06/23/2008 Date Prepared: 06/23/2008 Analyst: LATCOR

Batch #: 1 Matrix: Water

Reporting Units: mg/L	MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R Limits [D] %R		Flag	
Analytes	2 7 7000	49.0	43			_	
Chloride	2600	500	3270	134	80-120	X	
Sulfate	477	500	1080	121	80-120	X	



# Sample Duplicate Recovery



Project Name: Pride Energy Company

Work Order #: 306330

Lab Batch #: 726566 Project ID: State QE 13 # 1

 Date Analyzed: 06/26/2008
 Date Prepared: 06/26/2008
 Analyst: WRU

 QC- Sample ID: 306329-001 D
 Batch #: 1
 Matrix: Water

Reporting Units: mg/L	SAMPLE / SAMPLE DUPLICATE RECOVERY						
Alkalinity by SM2320B  Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag		
Alkalinity, Bicarbonate (as CaCO3)	190	180	20	20			
Alkalinity, Carbonate (as CaCO3)	ND	ND	20	20			
Alkalinity, Total (as CaCO3)	190	180	20	20			

Lab Batch #: 726337

Date Analyzed: 06/23/2008 Date Prepared: 06/23/2008 Analyst: LATCOR QC-Sample ID: 306329-001 D Batch #: 1 Matrix: Water

Reporting Units: mg/L SAMPLE / SAMPLE DUPLICATE RECOVERY Parent Sample Sample Inorganic Anions by EPA 300 RPD Result Duplicate Limits Flag Result %RPD [A] [B] Analyte Chloride 2600 2590 20 20 Sulfate 477 463 20 20

Lab Batch #: 726094

Date Analyzed: 06/23/2008 Date Prepared: 06/23/2008 Analyst: LATCOR QC- Sample ID: 306329-001 D Batch #: 1 Matrix: Water

Reporting Units: mg/L	SAMPLE / SAMPLE DUPLICATE RECOVERY						
Metals per ICP by SW846 6010B  Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag		
Calcium	ND	603	NC	25			
Magnesium	120	116	3	25			
Potassium	4.41	4.85	10	25			
Sodium	564	575	2	25			
Fluoride	ND	ND	NC	20			

Lab Batch #: 726342

 Date Analyzed: 06/23/2008
 Date Prepared: 06/23/2008
 O6/23/2008
 Analyst: WRU

 QC- Sample ID: 306329-001 D
 Batch #: 1
 Matrix: Water

Reporting Units: mg/L	SAMPLE / SAMPLE DUPLICATE RECOVERY						
TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag		
Analyte	00.85	[B]	1				
Total dissolved solids	5700	5580	2	30			

Spike Relative Difference RPD 200 \* | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. XENCO Laboratories / Environmental Lab of Texas
Team 43 401-180
Face 43 401-180

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×× Project Leading T125-R24E, Section 13, Unit Letter O. IAT badrags MANUSANS TAT HOUR SPLP 1919 SPLP 1919 Okorde Propertiesse Pride Energy Company Sarryte Container Vistalit Sarryte Container Vistalit Satemptory Contraints Property State QE 13 811 16931 DECLARATION OF THE PARTY OF THE 8 300 ķ Harris Angeles final Report to section@thicksconsul.com ğ 8 Address: 30 the Crack flut With an Frid. Chy New, Jly Cude: Albuquerque, NM 87104 Gergeny Name, R. T. Hicks Consultants Sware Restance Johnson (575) 831-9310 sozannedwalomet com Poper Range: Andrew Parker Talephone No. 505-365-5004 Email results to: androw@rthicksconsult.com and mzanna@valorret.com andrea fam in the 7.20 8.05 Received by ELOR 06/19/06 06/19/08 Russian by CC 1 3962/9 Ē Billing Assess III'ns form factor/Sun Fro be see by the Absolution NA 87154 Company Name R. T. Hicks Congultants Seatifiquette: godrud@fickboorsel.com MW-1 Deep FELDCODE Send twoise To. Artibers Parker MW-1 Ingeneral 505 208-5004 i i 304330 Sections and A8 8 34 440 1131 107 The same

## Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In.

Cherri	R.T. Hicks
Date/ Time:	6:20:00 17:00
ab ID # :	304550
ntight	at

## Sample Receipt Checklist

+1	Temperature of contained cooler?	Yes	No	5.0 °C
2	Shipping container in good condition?	-Y65>	No	
F3.	Ovstody Sasts intact on shipping contained cooler?	Yes	No	"Mot Present
14	Custody Seals intact on sample bottles/ container?	drago.	No	Not Present
10	Chain of Custody present?	Kaz)	No	
PG.	Sample instructions complete of Chain of Custody?	Yes?	No	
87	Chain of Custody signed when relinquished/ received?	600	No	
40	Chain of Custody agrees with sample label(s)?	(05)	No	ID written on Cont./ Ltd
99	Container label(s) lagible and intact?	48K	Na	Not Applicable
#10	Sample matrix' properties agree with Chain of Custody?	Yes	No.	
811	Containers supplied by ELOT?	(86)	No	
#12	Samples in proper container/ bottle?	Kes	No	See Below
#13	Samples properly preserved?	100	No	See Below
+14		T.066	No	
mn5	Preservations decumented on Chain of Custody?	Cox	No	
M15	The state of the s	Vas	No	
#17	Sufficient sample amount for indicated test(s)?	Y65	No	See Briow
<b>#16</b>	All samples received within sufficient hold time?	(60)	No	See Balow
<b>#1</b> 9	Subsonitact of sample(s)?	Yes	No	Mil Applicable
120	VDC samples have zero headspace?	Yes	No	Wol Applicable

### Variance Documentation

Contact		Contacted by:	Date/Time:	
Regarding:				
Corrective Action Taker				
Check of that Apply	o d	See attached e-mel/ fex Client understands and would like to pr Cooling process had begun shortly after		



Receiving Date: 09/11/08 Reporting Date: 09/17/08

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O - LEA CO., NM

Lab Number: H15916-1

Sample ID: MW-1-D

Analysis Date: 09/13/08 Sampling Date: 09/09/08 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: ZL

VOLATILES (mg/L)	Sample Result H15916-1	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	<0.001	0.052	104	0.050
Toluene	< 0.001	< 0.001	0.048	96.0	0.050
Ethylbenzene	< 0.001	< 0.001	0.050	100	0.050
m,p-Xylene	< 0.002	< 0.002	0.098	98.4	0.100
o-Xylene	< 0.001	< 0.001	0.052	103	0.050

	% RECOVERY	
Dibromofluoromethane	102	
Toluene-d8	111	
Bromofluorobenzene	109	

METHODS: EPA SW-846 8260

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES/

Chemist



Receiving Date: 09/11/08 Reporting Date: 09/17/08

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~ LEA CO., NM

Lab Number: H15916-1 Sample ID: MW-1-D Analysis Date: 09/13/08 Sampling Date: 09/09/08 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: ZL

VOLATILES (mg/kg)	Sample Result H15916-1	Method Blank	QC	%Recov.	True Value QC
Naphthalene	<0.001	<0.001	0.055	109	0.050

#### % RECOVERY

	NO INCOMPLIA	
Dibromofluoromethane	102	
Toluene-d8	111	
Bromofluorobenzene	109	

METHODS: EPA SW-846 8260

Chemist



Receiving Date: 09/11/08 Reporting Date: 09/17/08

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~ LEA CO., NM

Lab Number: H15916-2

Sample ID: MW-1-S

Analysis Date: 09/13/08 Sampling Date: 09/09/08 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: ZL

VOLATILES (mg/L)	Sample Result H15916-2	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	< 0.001	0.052	104	0.050
Toluene	< 0.001	< 0.001	0.048	96.0	0.050
Ethylbenzene	< 0.001	< 0.001	0.050	100	0.050
m,p-Xylene	< 0.002	< 0.002	0.098	98.4	0.100
o-Xylene	< 0.001	< 0.001	0.052	103	0.050

	% RECOVERY	
Dibromofluoromethane	103	
Toluene-d8	106	
Bromofluorobenzene	103	

METHODS: EPA SW-846 8260

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist



Receiving Date: 09/11/08 Reporting Date: 09/17/08

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~ LEA CO., NM

Lab Number: H15916-2 Sample ID: MW-1-S Analysis Date: 09/13/08 Sampling Date: 09/09/08 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: ZL

VOLATILES (mg/kg)	Sample Result H15916-2	Method Blank	QC	%Recov.	True Value QC
Naphthalene	<0.001	<0.001	0.055	109	0.050

## % RECOVERY

	70 T L C C V L T T T	
Dibromofluoromethane	103	
Toluene-d8	106	
Bromofluorobenzene	103	

METHODS: EPA SW-846 8260

Chamiet



Receiving Date: 09/11/08 Reporting Date: 09/16/08

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~

LEA COUNTY - NEW MEXICO

Sampling Date: 09/09/08 Sample Type: WATER

Sample Condition: COOL & INTACT

160.1 SM4500-CI-B

Sample Received By: ML

Analyzed By: HM

(mg/L	TDS (mg/L)	SAMPLE ID	LAB NO.
09/12/08	09/12/08	:	Analysis Date
64	542	MW-1-d	H15916-1
1,000	2,590	MW-1-s	H15916-2
490	NR	N.	Quality Contro
	NR NR		True Value Q
500		<u> </u>	
98.0	NR		% Recovery
< 0.1	NR	ent Difference	Relative Perce

Chemist S. Mono

METHOD: EPA 600/4-79-020

and Freeholder	Con Front Market Libition Mines												Г	L		콩	CHAIN-OF-CUSTODY	S.	5	Į.	N V	AND	ANA	ANAI VSIS		REGUEST	E	-	
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Tel (575) Fax (575)	990-2476			3	2	2	3		2			;					ב	LAB Order ID #	der	#						1			
Company Name RT Hicks	mpany Name. RT Hicks Consultants	Г	BILL TO Company: Pride Energy Company / Matt Pride	, ii	Company:	i 0	Nan Vuen	2	#6	rid.	Ž.		Г					*	Į₹	.≺S	ANALYSIS REQUEST	교	EST	١.					
Project Manager	2	Τ	2	il.	Address	6			lg)	eet, C	Street, City, Zip		Τ					õ	ego.	Sp	Circle or Specify Method No.)	Vetho	e No	_					
Andrew Parker	arker		P. O. Bax 710950 ~	Z XD	1085		Tulsa, OK 74170-1950	× 74	170	1950					_	_		_		_	_		_	_	_	_		_	_
Address:	(Street, City, Zip)	Γ		Γ	Phone#:			ı	l	ľ	Fax#:		Γ		_	_		_		_			_	_				_	
901 Rio Gra	901 Rio Grande Blvd NW Suite F-142 ~ Albug, NM 87104	8	(918) 524-9200	524	-92	8					918)	(918) 524-9292	282		_	_	7.00	_		_			_					_	
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(505) 266-5004	F5004														360	leen	010	_		_	_		_					(၁	
Project #:			Project Name:	Namy		ı	l	ı	ı	ı	ı		Γ		, p-4	a) pe		Вь		_			_	_			-	099	
State QE 13 #1	13#1		Pride Energy Company	Ē	ergy	Con	pany								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ecus		100		_			_	_	_			ZW	
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Receiving Date: 12/10/08 Reporting Date: 12/11/08

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~

LEA COUNTY - NEW MEXICO

Sampling Date: 12/08/08 Sample Type: WATER

Sample Condition: COOL & INTACT

160.1 SM4500-CI-B

Sample Received By: CK Analyzed By: HM/TR

LAB NO.	SAMPLE ID	TDS (mg/L)	(mg/L)
Analysis Date		12/10/08	12/11/08
H16487-1	MW-1-d	515	60
H16487-2	MW-1-s	3,510	1,500
O		NO	500
Quality Contro		NR	500
True Value Q	C	NR	500
% Recovery		NR	100
Relative Pero	ent Difference	NR	< 0.1

Chemist Mount

METHOD: EPA 600/4-79-020



Receiving Date: 12/10/08 Reporting Date: 12/17/08

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~ LEA CO., NM

Lab Number: H16487-1

Sample ID: MW-1-D

Analysis Date: 12/16/08 Sampling Date: 12/08/08 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: CK

Analyzed By: ZL

VOLATILES (mg/L)	Sample Result H16487-1	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	<0.001	0.055	110	0.050
Toluene	< 0.001	< 0.001	0.056	112	0.050
Ethylbenzene	< 0.001	< 0.001	0.056	112	0.050
m,p-Xylene	< 0.002	< 0.002	0.119	119	0.100
o-Xylene	< 0.001	< 0.001	0.055	110	0.050

## % RECOVERY

Dibromofluoromethane	103	
Fluorobenzene	108	
Toluene-d8	99.2	
4-Bromofluorobenzene	84.7	

METHODS: EPA SW-846 8260

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist



Receiving Date: 12/10/08 Reporting Date: 12/17/08

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~ LEA CO., NM

Lab Number: H16487-1 Sample ID: MW-1-D Analysis Date: 12/16/08 Sampling Date: 12/08/08 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: CK

Analyzed By: ZL

VOLATILES (mg/L)	Sample Result H16487-1	Method Blank	QC	%Recov.	True Value QC
Naphthalene	<0.001	<0.001	0.059	118	0.050

### % RECOVERY

	701120012111	
Dibromofluoromethane	103	
Fluorobenzene	108	
Toluene-d8	99.2	
4-Bromofluorobenzene	84.7	

METHODS: EPA SW-846 8260

Chemist



Receiving Date: 12/10/08 Reporting Date: 12/17/08

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~ LEA CO., NM

Lab Number: H16487-2 Sample ID: MW-1-S Analysis Date: 12/16/08 Sampling Date: 12/08/08 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: CK

Analyzed By: ZL

	Sample Result	Method			True Value
VOLATILES (mg/L)	H16487-2	Blank	QC	%Recov.	QC
Benzene	<0.001	< 0.001	0.055	110	0.050
Toluene	< 0.001	< 0.001	0.056	112	0.050
Ethylbenzene	< 0.001	< 0.001	0.056	112	0.050
m,p-Xylene	< 0.002	< 0.002	0.119	119	0.100
o-Xylene	< 0.001	< 0.001	0.055	110	0.050

## % RECOVERY

	70 1120012111	
Dibromofluoromethane	116	
Fluorobenzene	115	
Toluene-d8	96.0	
4-Bromofluorobenzene	69.0	

METHODS: EPA SW-846 8260

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist



Receiving Date: 12/10/08 Reporting Date: 12/17/08

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~ LEA CO., NM

Lab Number: H16487-2 Sample ID: MW-1-S

Analysis Date: 12/16/08 Sampling Date: 12/08/08 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: CK

Analyzed By: ZL

VOLATILES (mg/L)	Sample Result H16487-2	Method Blank	QC	%Recov.	True Value QC
Naphthalene	<0.001	<0.001	0.059	118	0.050

### % RECOVERY

Dibromofluoromethane	116	
Fluorobenzene	115	
Toluene-d8	96.0	
4-Bromofluorobenzene	69.0	

METHODS: EPA SW-846 8260

Chemist

rage 1 of 1

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	LAB Order ID #	ANALYSIS REQUEST (Circle or Specify Method No.)		PH 418.1/TX1005 / TX1005 Extended (C35) AH 8270C CHN State Ag As Ba Cd Cr Pb Se Hg CLMS Semi Volatiles CLMS Semi Volatiles CLMS Semi Volatiles CLMS Semi Volatiles CLMS Semi Volatiles CLMS Semi Volatiles CLMS Semi Volatiles					TPH 418.1/T) TPH 418.1/T) Total Metals TCLP Metals TCLP Volatile TCLP Semi Vi TCLP Semi Vi TCLP Pesticio TCMS Vol. 8 TCLP Semi Vi TCLP Semi Vi TCLP Pesticio TCLP Semi Vi TCLP Pesticio TCLP Semi Vi TCLP Pesticio TCLP Semi Vi TCLP Pesticio TCLP Semi Vi TCLP Pesticio TCMS Vol. 8 TCMS	××	××				Phone Results Yes No	Fax Results Yes No Additional Fax Number:	REMARKS:	Email Results to:	andrew@rthicksconsult.com mattp@pride-energy.com rozanne@valomet.com			
and I abound tout Inc	Cardinal Laboratories, Inc.	ompany / Ma	P. O. Box 710950 ~ Tulsa, OK 74170-1950	Phone#: Facet: 7104 (918) 524-9292	Fax#	Project Name:	Pride Energy Company Sampler Signetation, NegamerJohnson (575)831-9310	1	MATRIX PRESERVATIVE SAMPLING	ON)	(3) rab or (C)  KATER  SULDGE  SULDGE  SULDGE  CONTAIN  CATE (2008)	G 3 X 2 1 1 12-8 8:40	G 3 X 2 1 1 12-8 9:30				Received by: // Date: Time:	James M. Mary 12 10-58 7:01	(Laboratory Staff) Date: Time:	111/4 49EAR 12/10/198 11:30	Sample Condition  Ves Ves Ves (Initials)	
101 East Marfand - Hobbs, New Marrier, 88340	980-2326	Company Name: RT Hicks Consultants	Andrew Parker	Address: (Street, City, Zip) 901 Rio Grande Blvd NW Suite F-142 ~ Albuq, NM 87104	Phone #: (505) 266-5004	Project #:	State QE 13 #1 Project Location:	T12S-R34E-Sec13 Unit Letter O ~ Lea County - New Mexico		LAB#	(LAB USE)	/ MW-1-d	2 MW-1-s				Ē	Rozande Johnson 12-10-08 7:00	ReInquished by: Date: Time:	3	Delivered By: (Circle One) Sampler - UPS - Bus -/Other.)	



Receiving Date: 03/19/09

Reporting Date: 03/23/09

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

LEA COUNTY - NEW MEXICO

Sampling Date: 03/18/08

Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~ Analyzed By: HM/TR

(mg/L	TDS (mg/L)	SAMPLE ID	LAB NO.
03/20/09	03/20/09	:	Analysis Date:
60	498	MW-1-d	H17096-1
1,380	3,360	MW-1-s	H17096-2
500	NR	ni e	Quality Contro
500	NR		True Value Q0
100	NR		% Recovery
< 0.1	0.6	ent Difference	Relative Perce

METHOD: EPA 600/4-79-020 160.1 SM4500-CI-B

Chemist



Receiving Date: 03/19/09 Reporting Date: 03/25/09

Project Number: STATE QE 13#1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM Sample ID: MW-1-D Lab Number: H17096-1 Analysis Date: 03/24/09 Sampling Date: 03/18/09 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result H17096-1	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	< 0.001	0.023	92.0	0.025

Benzene	< 0.001	< 0.001	0.023	92.0	0.025
Toluene	< 0.001	< 0.001	0.024	96.0	0.025
Ethylbenzene	< 0.001	< 0.001	0.027	108	0.025
m+p - Xylene	< 0.002	< 0.002	0.058	116	0.050
o-Xylene	< 0.001	< 0.001	0.024	96.0	0.025

% Recovery

	70.1000.013	
Dibromofluoromethane	83.5	
Fluorobenzene	84.8	
Toluene-d8	106	
4-Bromofluorobenzene	81.9	

METHODS: EPA SW-846-8260.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,

AND TOTAL XYLENES.

Chemist



Receiving Date: 03/19/09 Reporting Date: 03/25/09

Project Number: STATE QE 13#1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM

Sample ID: MW-1-D Lab Number: H17096-1 Analysis Date: 03/24/09 Sampling Date: 03/18/09 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: ZL

BTEX 8260 (mg/L)

Sample Result

Method

True Value

H17096-1

Blank

QC %Recov.

QC

Naphthalene	<0.001	<0.001	0.027	108	0.025
	96	Recovery			
Dibromofluoromethane		83.5			
Fluorobenzene		84.8			
Toluene-d8		106			
4-Bromofluorobenzene		81.9			

METHODS: EPA SW-846-8260.

Chemist

03/25/09



Receiving Date: 03/19/09 Reporting Date: 03/25/09

Project Number: STATE QE 13#1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM

Sample ID: MW-1-S Lab Number: H17096-2 Analysis Date: 03/24/09 Sampling Date: 03/18/09 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: ZL

BTEX - 8260 (mg/L)	Sample Result H17096-2	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	<0.001	0.023	92.0	0.025
Toluene	< 0.001	< 0.001	0.024	96.0	0.025
Ethylbenzene	< 0.001	<0.001	0.027	108	0.025
m+p - Xylene	< 0.002	< 0.002	0.058	116	0.050
o-Xylene	< 0.001	<0.001	0.024	96.0	0.025

% Recovery

	70 ITCCCTCTY		
Dibromofluoromethane	89.3		
Fluorobenzene	85.1		
Toluene-d8	102		
4-Bromofluorobenzene	89.8		

METHODS: EPA SW-846-8260.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,

AND TOTAL XYLENES.

Chemist

Date

03/25/09



Receiving Date: 03/19/09 Reporting Date: 03/25/09

Project Number: STATE QE 13#1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM

Sample ID: MW-1-S Lab Number: H17096-2 Analysis Date: 03/24/09 Sampling Date: 03/18/09

Sample Type: WATER Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: ZL

BTEX - 8260 (mg/L)

Sample Result

H17096-2

Method Blank

QC %Recov.

True Value QC

03/25/09

Naphthalene <0.001 <0.001 0.027 108 0.025

O.C.	D-	-		
%	ικe	CO	YС	гу

	70 110001013	
Dibromofluoromethane	09.0	
Fluorobenzene	85.1	
Toluene-d8	102	
4-Bromofluorobenzene	89.8	

METHODS: EPA SW-846-8260.

Chemist

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July 6, 2009

Andrew Parker RT Hicks Consultants 901 Rio Grande Blvd. NW Suite F-142 Albuquerque, NM 87104

Re: State QE 13 #1

Enclosed are the results of analyses for sample number H17660, received by the laboratory on 06/18/09 at 1:55 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Total Number of Pages of Report: 7 (includes Chain of Custody)

Sincerely,

Celey D. Keene Laboratory-Director



Receiving Date: 06/18/09

Reporting Date: 06/22/09

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

LEA CO., NM

Project Location: T12S-R34E-SEC13 UNIT LETTER O~ Analyzed By: AB/HM

Sampling Date: 06/17/09 Sample Type: WATER

Sample Condition: COOL & INTACT @ 5°C

Sample Received By: AB

		CI	TDS
LAB NO.	SAMPLE ID	(mg/L)	(mg/L)

Analysis Date:	06/19/09	06/19/09
H17660-1 MW-1-D	64	490
H17660-2 MW-1-S	1,120	2,860
Quality Control	500	NR
True Value QC	500	NR
	100	NR
% Recovery		
Relative Percent Difference	<0.1	0

METHOD:	Standard Methods, EPA	4500-Cl <sup>-</sup> B	160.1

Not accredited for chloride and TDS.

hemist

Date

H17660 RT HICKS



Receiving Date: 06/18/09 Reporting Date: 07/02/09

Project Number: STATE QE 13#1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM Sample ID: MW-1-D Lab Number: H17660-1 Analysis Date: 06/30/09 Sampling Date: 06/17/09 Sample Type: WATER

Sample Condition: COOL & INTACT @ 5°C

Sample Received By: AB

Analyzed By: SS

BTEX 8260 (mg/L)	Sample Result H17660-1	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	<0.001	0.019	95.0	0.020
Toluene	<0.001	< 0.001	0.018	90.0	0.020
Ethylbenzene	< 0.001	< 0.001	0.022	112	0.020
m+p Xylono	-0.002	~0.002	0.046	113	0.040
o-Xylene	< 0.001	< 0.001	0.023	115	0.020

% Recovery

Dibromofluoromethane	102	
Toluene-d8	100	
4-Bromofluorobenzene	91.5	

METHODS: EPA SW-846-8260.

Subcontracted to SunStar Laboratories, Inc.

Chemist



Receiving Date: 06/18/09 Reporting Date: 07/02/09

Project Number: STATE QE 13#1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM

Sample ID: MW-1-D Lab Number: H17660-1 Analysis Date: 06/30/09

Sampling Date: 06/17/09 Sample Type: WATER

Sample Condition: COOL & INTACT @ 5°C

Sample Received By: AB

Analyzed By: SS

BTEX 8260 (mg/L)

Sample Result

H17660-1

Method Blank

QC %Recov.

True Value

QC

Naphthalene	< 0.001	< 0.001	0.029	144	0.020	

% Recovery

Dibromofluorom	nethane	102	
Toluene-d8		100	
4-Bromofluorob	enzene	91.5	

METHODS: EPA SW-846-8260.

Subcontracted to SunStar Laboratories, Inc.

Chemist

07/06/09



Receiving Date: 06/18/09 Reporting Date: 07/02/09

Project Number: STATE QE 13#1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM

Sample ID: MW-1-S Lab Number: H17660-2 Analysis Date: 06/30/09 Sampling Date: 06/17/09

Sample Type: WATER

Sample Condition: COOL & INTACT @ 5°C

Sample Received By: AB

Analyzed By: SS

BTEX - 8260 (mg/L)	Sample Result H17660-2	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	<0.001	0.019	95.0	0.020
Toluene	< 0.001	< 0.001	0.018	90.0	0.020
Ethylbenzene	< 0.001	< 0.001	0.022	112	0.020
m+p - Xylene	< 0.002	< 0.002	0.045	113	0.040
o-Xvlene	< 0.001	< 0.001	0.023	115	0.020

% Recovery

Г	Dibromofluoromethane	99.1	
Γ	Toluene-d8	101	
	4-Bromofluorobenzene	106	

METHODS: EPA SW-848-8260.

Subcontracted to SunStar Laboratories, Inc.

Chemist

Date 07/06/09

Analysis Date: 06/30/09

Sampling Date: 06/17/09

Sample Received By: AB

Analyzed By: SS

Sample Condition: COOL & INTACT @ 5°C

Sample Type: WATER



ANALYTICAL RESULTS FOR RT HICKS CONSULTANTS ATTN: ANDREW PARKER 901 RIO GRANDE BLVD. NW, SUITE F-142 ALBUQUERQUE, NM 87104

Receiving Date: 06/18/09 Reporting Date: 07/02/09

Project Number: STATE QE 13#1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM

Sample ID: MW-1-S Lab Number: H17660-2

BTEX - 8260 (mg/L)

Sample Result

H17660-2

ult Me

Method Blank

QC %Recov.

True Value

QC

07/06/09

Naphthalene	< 0.001	< 0.001	0.029	144	0.020

% Recovery

ſ	Dibromofluoromethane	99.1	
ľ	Toluene-d8	101	
ľ	4-Bromofluorobenzene	106	

METHODS: EPA SW-846-8260.

Subcontracted to SunStar Laboratories, Inc.

Chamiet

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	LAB Order ID #	ANALYSIS REQUEST (Circle or Specify Method No.)		O3)						(g S / L**) (SC (SC (SC (SC (SC (SC (SC (SC (SC (SC	(160 (160 () HCc () (160 () HCc () () HCc	88 (8 (8 (8 (8 (8 (8 (8 (8 (8 (8 (8 (8 (	COOLYTTO COO	Total Metals Total Metals Total Semi Total Semi Total Semi Total Semi Total Semi Total Semi Total Semi Total Semi Total Semi Total Semi Total Semi Total Semi	x x	×				Phone Results Yes No	Fax Results Yes No Additional Fax Number:		Email Results to:	andrew@rthicksconsult.com mattp@pride-energy.com rozanne@valomet.com
	Cardinal Laboratories, Inc.	ompany / Mat	Address: (Street, City, Zip) P. O. Box 710850 ~ Tulsa, OK 74170-1950		(918) 524-9200	#		Project Name:	Pride Energy Company 4.1	Sampler Signature   Placeme Johnson (575)631-9310	Hd.	METHOD	(NEKS)	(G)(sb or (C)	6 3 X   2   1   6   17   18,00					Received by: / Date: Time:	1 37 (118/19 13:55	Received By. (Laboratory/Staff) Dafe: Time:	. 0	Sample Condition  Cost Integral  Yes Yes (Integrals)
obs. New		Company Name: RT Hicks Consultants	Project Manager: Andrew Parker	Address: (Street, City, Zip)	Rio Gra	Phone #:	(505) 266-5004	Project #:	State QE 13 #1	Project Location: T12S_R24E_Sec13   Init   other O ~   on County   New Maximal			LAB # FIELD CODE	( LAB USE )	H17660-1 MW-1-0	-2 MW-1-s				Refinquished by Date: Time:	100 WW//wote 1809 13:51	Time:		Sampler - UPS - Bus - Other: #20 S



October 5, 2009

Andrew Parker RT Hicks Consultants 901 Rio Grande Blvd. NW Suite F-142 Albuquerque, NM 87104

Re: State QE 13 #1

Enclosed are the results of analyses for sample number H18305, received by the laboratory on 09/24/09 at 11:21 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.2

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 7 (includes Chain of Custody)

Sincerely.

Celey D. Keene

Laboratory Director



Receiving Date: 09/24/09

Reporting Date: 10/01/09 Project Number: STATE QE 13#1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM

Sample ID: MW-1-D Lab Number: H18305-1 Analysis Date: 09/30/09

Sampling Date: 09/22/09 Sample Type: WATER

Sample Condition: COOL & INTACT @ 1.5°C

Sample Received By: ML

Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result	Method		True Value
	H18305-1	Blank	QC %Recov.	QC

Benzene	< 0.001	< 0.001	0.010	100	0.010
Toluene	< 0.001	< 0.001	0.011	110	0.010
Ethylbenzene	< 0.001	< 0.001	0.010	100	0.010
m+p - Xylene	< 0.002	< 0.002	0.022	109	0.020
o-Xylene	< 0.001	< 0.001	0.011	106	0.010

% Recovery

	72 7 1000 7 0.1	
Dibromofluoromethane	88.5	
Toluene-d8	104	
4-Bromofluorobenzene	113	

METHODS: EPA SW-846-8260.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,

AND TOTAL XYLENES.

Chemist



Receiving Date: 09/24/09 Reporting Date: 10/01/09

Project Number: STATE QE 13#1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM

Sample ID: MW-1-D Lab Number: H18305-1 Analysis Date: 09/30/09 Sampling Date: 09/22/09 Sample Type: WATER

Sample Condition: COOL & INTACT @ 1.5°C

Sample Received By: ML

Analyzed By: ZL

BTEX 8260 (mg/L)

Naphthalene

Sample Result

H18305-1

Method

. . . . . .

True Value

Blank QC %Recov. QC

<0.001 <0.001 0.020 98.7 0.020

% Recovery

	70.100010.3	
Dibromofluoromethane	88.5	
Toluono d8	104	
4-Bromofluorobenzene	113	

METHODS: EPA SW-848-8260. Not accredited for Naphthalene.

Chemist



Receiving Date: 09/24/09 Reporting Date: 10/01/09

Project Number: STATE QE 13#1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM

Sample ID: MW-1-S Lab Number: H18305-2 Analysis Date: 09/30/09 Sampling Date: 09/22/09

Sample Type: WATER

Sample Condition: COOL & INTACT @ 1.5°C

Sample Received By: ML

Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result H18305-2	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	<0.001	0.010	100	0.010
Toluene	< 0.001	< 0.001	0.011	110	0.010
Ethylbenzene	< 0.001	< 0.001	0.010	100	0.010
m+p - Xylene	< 0.002	< 0.002	0.022	109	0.020
o-Xylene	< 0.001	< 0.001	0.011	106	0.010

% Recovery

	70 110001013	
Dibromofluoromethane	90.6	
Toluene-d8	107	
4-Bromofluorobenzene	107	

METHODS: EPA SW-846-8260.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,

AND TOTAL XYLENES.

Chemist

Date

10/05/09

Analysis Date: 09/30/09

Sampling Date: 09/22/09

Sample Type: WATER

Analyzed By: ZL

Sample Received By: ML



ANALYTICAL RESULTS FOR RT HICKS CONSULTANTS ATTN: ANDREW PARKER 901 RIO GRANDE BLVD. NW, SUITE F-142 ALBUQUERQUE, NM 87104

Receiving Date: 09/24/09 Reporting Date: 10/01/09

Project Number: STATE QE 13#1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM

Sample ID: MW-1-S Lab Number: H18305-2

Sample Result

Method

True Value

10/05/89

Sample Condition: COOL & INTACT @ 1.5°C

BTEX 8260 (mg/L)

H18305-2

Blank QC %Recov.

QC

Naphthalene	< 0.001	< 0.001	0.020	98.7	0.020

	% Recovery	
Dibromofluoromethane	90.6	
Toluene-d8	107	
4-Bromofluorobenzene	107	

METHODS: EPA SW-848-8260. Not accredited for Naphthalene.

Chemist



Receiving Date: 09/24/09 Reporting Date: 09/26/09

Sampling Date: 09/22/08

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~

LEA COUNTY - NEW MEXICO

Sample Type: WATER Sample Condition: COOL & INTACT @ 1.5°C

Sample Received By: ML

Analyzed By: HM

LAB NO.	SAMPLE ID	TDS (mg/L)	CI <sup>-</sup> (mg/L)
Analysis Date	1.	09/25/09	09/25/09

Analysis Date		09/25/09	09/25/09	
H18305-1	MW-1-d	447	64	
H18305-2 MW-1-s		1,760	570	
Quality Contro	N.	NR	500	
True Value Q		NR	500	
% Recovery		NR	100	
Relative Perce	ent Difference	2.4	< 0.1	

METHOD: EPA 600/4-79-020	160.1	SM4500-CI-B
Not accredited for Chloride and TDS.		

Fage 1 of

Condition	Cardinal Laboratoris, Inc.	Consultants Setzoleum Jerry Fanning	r. Address:	Parker 105 S 4th Street ~ Artesia, New Mexico 88210	Fasili.		Z/80)	(09	Yates Petroleum	Semples Semples Supplement Mazerpe John Manual Annual Market September Supplement Annual Market September Supplement Annual Market September Supplement Annual Market September Supplement Annual Market September Supplement Annual Market September Supplement Annual Market September Supplement Annual Market September Supplement September September Supplement September Septembe	000000000000000000000000000000000000000	8a Cd 8b Cd 8c Cd	(ACA)  (A	DGE SOA	WATE   COMMON   COM	MWV-1-d G 3 X	2 1 9-22 9:05 X				Date: Time: Received by:	7	by: Date: Time: Received By() (Laboratory Staff) Date: Time: REMARKS:	(Circle 0
101 East Marland - Hobbs, New Marches All St.	Tel (575) 305-2328 Fax (575) 393-2475	Company Name: RT Hicks Consultants	Project Manager:	Andrew Parker	Address: (Street, City, Zip)	901 Rio Grande Blvd NW Sui	Phone #: (505) 266-5004	tono-007 (coc)	State QE 13 #1	Project Location: T12S_R34F_Sec13 Unit	100000000000000000000000000000000000000		LAB#		ONE!	H18505/ MW-1-d	- 2 MW·1-s			0	Reindushed by: / Date	7	Relinquished by: Date	Delivered By: (Circle One) Sampler - UPS - Bus



December 22, 2009

Andrew Parker RT Hicks Consultants 901 Rio Grande Blvd. NW Suite F-142 Albuquerque, NM 87104

Re: State OE 13 #1

Enclosed are the results of analyses for sample number H18888, received by the laboratory on 12/16/09 at 9:00 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005 Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.2 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 7 (includes Chain of Custody)

Sincerely,

Celey D./Keene Laboratory Director



Receiving Date: 12/16/09

Reporting Date: 12/17/09

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY Project Location: T12S-R34E-SEC13 UNIT LETTER O ~

LEA COUNTY - NEW MEXICO

Sampling Date: 12/11/08

Sample Type: WATER

Sample Condition: COOL & INTACT @ 1.5°C

Sample Received By: CK

Analyzed By: HM

		TDS	CI.
LAB NO.	SAMPLE ID	(mg/L)	(mg/L)

Analysis Date:	12/16/09	12/16/09
H18888-1 MW-1-d	505	60
H18888-2 MW-1-s	2,200	770
Quality Control	NR	500
True Value QC	NR	500
% Recovery	NR	100
Relative Percent Difference	1.8	< 0.1

Į	METHOD: EPA 600/4-79-020
	Not accredited for TDS and Chloride.

160.1 SM4500-CI-B



Receiving Date: 12/16/09 Reporting Date: 12/18/09

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~

LEA COUNTY, NM

Sample ID: MW-1D Lab Number: H18888-1 Analysis Date: 12/16/09

Sampling Date: 12/11/09 Sample Type: WATER

Sample Condition: COOL & INTACT @1.5°C

Sample Received By: CK

Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result	Method		True Value
	H18888-1	Blank	QC %Recov	QC

Benzene	< 0.001	< 0.001	0.021	105	0.020
Toluene	< 0.001	< 0.001	0.021	105	0.020
Ethylbenzene	< 0.001	< 0.001	0.022	110	0.020
m+p - Xylene	< 0.002	< 0.002	0.042	105	0.040
o-Xylene	< 0.001	< 0.001	0.020	100	0.020

% Recovery

	Dibromofluoromethane	99.7	
ı	Toluene-d8	96.2	
1	4-Bromofluorobenzene	94.0	

METHODS: EPA SW-846-8260.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,

AND TOTAL XYLENES

Chemist

Date

12/22/09



ALBUQUERQUE, NM 87104

Receiving Date: 12/16/09

Reporting Date: 12/18/09 Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~

LEA COUNTY, NM

Sample ID: MW-1D Lab Number: H18888-1 Analysis Date: 12/16/09

Sampling Date: 12/11/09 Sample Type: WATER

Sample Condition: COOL & INTACT @1.5°C

Sample Received By: CK

Analyzed By: ZL

BTEX 8260 (mg/L)

Sample Result

H18888-1

Method

Blank QC %Recov.

True Value QC

Naphthalene <0.001 <0.001 0.021 105 0.020

% Recovery

	n receiving	
Dibromofluoromethane	99.7	
Toluene-d8	96.2	
4-Bromofluorobenzene	94.0	

METHODS: EPA SW-846-8260. Not accredited for Naphthalene.

Chemist

12/22/09 Date



Receiving Date: 12/16/09 Reporting Date: 12/18/09

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~

LEA COUNTY, NM

Sample ID: MW-1S Lab Number: H18888-2 Analysis Date: 12/16/09 Sampling Date: 12/11/09 Sample Type: WATER

Sample Condition: COOL & INTACT @1.5°C

Sample Received By: CK

Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result	Method		True Value
	H18888-2	Blank	QC %Recov.	QC

Benzene	< 0.001	< 0.001	0.021	105	0.020
Toluene	< 0.001	< 0.001	0.021	105	0.020
Ethylbenzene	< 0.001	< 0.001	0.022	110	0.020
m+p - Xylene	< 0.002	< 0.002	0.042	105	0.040
o-Xvlene	< 0.001	< 0.001	0.020	100	0.020

% Recovery

Dibromofluoromethane	120	
Toluene-d8	100	
4-Bromofluorobenzene	100	

METHODS: EPA SW-846-8260.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,

AND TOTAL XYLENES.

Chemist

12/22/09



Receiving Date: 12/16/09 Reporting Date: 12/18/09

Project Number: STATE QE 13 #1

Project Name: PRIDE ENERGY COMPANY

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~

LEA COUNTY, NM

Sample ID: MW-1S Lab Number: H18888-2 Analysis Date: 12/16/09 Sampling Date: 12/11/09 Sample Type: WATER

Sample Condition: COOL & INTACT @1.5°C

Sample Received By: CK

Analyzed By: ZL

BTEX 8260 (mg/L)

Sample Result

Method

True Value

H18888-2 Blank QC %Recov. QC

Naphthalene	< 0.001	< 0.001	0.021	105	0.020

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•	w .		w	•	w		w	

Dibromofluoromethane	120	
Toluene-d8	100	
4-Bromofluorobenzene	100	

METHODS: EPA SW-846-8260. Not accredited for Naphthalene.

Compared by Circle One   Compared by Circle	101 East Martend - Hobbe, Mew Monicoo 86240 Tel (8719) 398-2328 Fax (8719) 398-2478 Company Marne: RT Hicks Consultar Project Managar. Andrew Parker Address: (Sheet, City, Z 901 Rio Grands Blvd NV Prone #: State QE 13 #1 Project Incation: T12S-R34E-Sec13	Tot Emer Martend - Hobbe, Mery Tot (57%) 362-236 Tot (57%) 362-236 Tot (57%) 363-2478 Tot (57%) 363-2478 Thicks Consultants Opect Manager.  Andrew Parker An	Face R	Labora Bill To Compan: Yates Petroleum Address: 105 S 4th Street ~ Arts Phonet: (575) 748-1471 Froject Name: Sampler Sign lew Mexico	Name:	borrance Street - Arte Phones: 8-1471	— I al lat	Jerry Fa (Street, Sia. New Mexico 8	1;   Je   1;   J	Dries, I. Pou Jerry Fannir (Street, City. New Mexico 88210 Faxo	Jes, In Post Jerry Fanning (Street, City, Zip Mexico 88210 Fazel: Fazel:	PO# PO# PO# TY Fanning (Street, City, Zip) Alco 88210 Facet: Face	0000 0000		(36C) Extended (C36)	L L	Cr. Pb. Se Hg 60108/200.7	B Ord B Ord Christian	CHAIN-OF-CUSTODY  LAB Order ID #  ANALYSIS  (Circle or Specify Chair and the state of the state	Sist Signature	REQUE AND A Method	Order ID #  Order	ANALYSIS  M No.)  M No.)		CO3)	CO3)	.	
MWV1-4	LAB# ONLY ONLY HI9883	FIELD CODE	qmo(3) no den(8)	# CONTAINERS	\	AIR C	3r∩D@E	1CF (540M AON)	NO <sub>3</sub> No No No No No No No No No No No No No	P P POST	CE (1-1794 HD6E)		TIME					TCLP Volatiles							Cations (Ca, Mg, Na, K)	Anions (Cl. SO4, CO3, H		
## Processor   12-10-2409   12-11-211-211-211-211-211-211-211-211-2	anc	MW-1-d	9	0	×	+	$\parallel$	24	+	H	-	12.1	_		×	$\Box$	+	$\Rightarrow$	+	$\Box$	+	$\perp$	+	$\perp$	+		_	
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Sample Contains No. 12-14-2601 7:01 Fax Results Yes No. 12-14-2601 7:01 Fax Results Yes No. 12-14-09-91 Sample Contains No. 12-14-09 9:00 Fax Results No. 12-14-09 9:00 Fax Results Yes No. 12-14-09 9:00 Fax Fax Fax Fax Fax Fax Fax Fax Fax Fax						+		$\perp$	+		$\pm$	$\perp$	$\Box$		+	$\Box$	+	$\perp$	$\vdash$		+		+		+		+	П
State: Time: Received by: Dete: Time: Phone Results Yes No Fax Results Yes No Fax Results Yes No Fax Results Order Sample Condition Staff) Date: Time: Remarks: Email Results to: Sample Condition No No Hold Circle One)  - UPS - Bus - Other) Staff No Hold Sample Condition				Γ	$\pm$	+	$\pm$	F	+	F	$\pm$	+	$\perp$	$\pm$	+	#	+	$\pm$	+	$\perp$	+	1	+	+	+	$\pm$	+	T
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April 1, 2010

Andrew Parker RT Hicks Consultants 901 Rio Grande Blvd. NW Suite F-142 Albuquerque, NM 87104

Re: State QE 13 #1

Enclosed are the results of analyses for sample number H19560, received by the laboratory on 03/29/10 at 10:20 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005 Total Petroleum Hydrocarbons

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Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.2 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 7 (includes Chain of Custody)

Sincerely,

Laboratory Director



Receiving Date: 03/29/10 Reporting Date: 03/30/10

Sampling Date: 03/25/10 Sample Type: WATER

Project Number: STATE QE 13 #1

Sample Condition: COOL & INTACT @ -1.0°C

Project Name: PRIDE ENERGY COMPANY

Sample Received By: JH

Project Location: T12S-R34E-SEC13 UNIT LETTER O ~ Analyzed By: HM

LEA COUNTY - NEW MEXICO

		TDS	CI
LAB NO.	SAMPLE ID	(mg/L)	(mg/L)

Analysis Date:	03/29/10	03/29/10
H19560-1 MW-1-d	469	60
H19560-2 MW-1-s	1,760	530
Quality Control	NR	500
True Value QC	NR	500
% Recovery	NR	100
Relative Percent Difference	6.2	< 0.1

METHOD: EPA 600/4-79-020	160.1	SM4500-CI-B
Not accredited for TDS and Chloride.		



Receiving Date: 03/29/10 Reporting Date: 03/31/10

Project Number: STATE QE 13 #1
Project Name: YATES PETROLEUM

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM

Sample ID: MW-1-D Lab Number: H19560-1 Analysis Date: 03/30/10 Sampling Date: 03/25/10 Sample Type: WATER

Sample Condition: COOL & INTACT @ -1°C

Sample Received By: JH

Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result H19560-1	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	<0.001	0.012	118	0.010
Toluene	< 0.001	< 0.001	0.011	109	0.010
Ethylhenzene	<0.001	<0.001	0.010	99.0	0.010

Benzene	<0.001	< 0.001	0.012	118	0.010
Toluene	< 0.001	< 0.001	0.011	109	0.010
Ethylbenzene	< 0.001	< 0.001	0.010	99.0	0.010
m+p - Xylene	< 0.002	< 0.002	0.021	107	0.020
o-Xylene	< 0.001	< 0.001	0.011	113	0.010

% Recovery

Dibromofluoromethane	111	
Toluene-d8	113	
4-Bromofluorobenzene	95.6	

METHODS: EPA SW-846-8260.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist



Receiving Date: 03/29/10 Reporting Date: 03/31/10

Project Number: STATE QE 13 #1 Project Name: YATES PETROLEUM

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM

Sample ID: MW-1-D Lab Number: H19560-1 Analysis Date: 03/30/10 Sampling Date: 03/25/10 Sample Type: WATER

Sample Condition: COOL & INTACT @ -1°C

Sample Received By: JH

Analyzed By: ZL

BTEX 8260 (mg/L)

Sample Result H19560-1 Method Blank

QC %Recov.

True Value

QC

04/01/10

	 					_
Naphthalene	<0.001	< 0.001	0.010	101	0.010	

% Recovery

Dibromofluoromethane	111	
Toluene-d8	113	
4-Bromofluorobenzene	95.6	

METHODS: EPA SW-846-8260. Not accredited for Naphthalene.

Chemist



Receiving Date: 03/29/10

Reporting Date: 03/31/10 Project Number: STATE QE 13 #1

Project Name: YATES PETROLEUM

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM

Sample ID: MW-1-S Lab Number: H19560-2 Analysis Date: 03/30/10 Sampling Date: 03/25/10

Sample Type: WATER

Sample Condition: COOL & INTACT @ -1°C

Sample Received By: JH

Analyzed By: ZL

BTEX 8260 (mg/L)	Sample Result H19560-2	Method Blank	QC	%Recov.	True Value QC
Benzene	<0.001	< 0.001	0.012	118	0.010
Toluene	< 0.001	< 0.001	0.011	109	0.010
Ethylbenzene	< 0.001	< 0.001	0.010	99.0	0.010
m+p - Xylene	< 0.002	< 0.002	0.021	107	0.020
o-Xylene	< 0.001	< 0.001	0.011	113	0.010

% Recovery

Γ	Dibromofluoromethane	117	
	Toluene-d8	112	
ľ	4-Bromofluorobenzene	101	

METHODS: EPA SW-846-8260.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist

Date

04/01/10



Receiving Date: 03/29/10 Reporting Date: 03/31/10

Project Number: STATE QE 13 #1 Project Name: YATES PETROLEUM

Project Location: T12S-R34E-SEC13 UNIT LETTER O

LEA COUNTY, NM Sample ID: MW-1-S

Sample ID: MW-1-S Lab Number: H19560-2 Analysis Date: 03/30/10 Sampling Date: 03/25/10 Sample Type: WATER

Sample Condition: COOL & INTACT @ -1°C

Sample Received By: JH

Analyzed By: ZL

BTEX 8260 (mg/L)

Sample Result

H19560-2

< 0.001

Method Blank

QC %Recov.

101

True Value

QC

Naphthalene

<0.001 0.010

0.010

% Recovery

Γ	Dibromofluoromethane	117	
Γ	Toluene-d8	112	
ľ	4-Bromofluorobenzene	101	

METHODS: EPA SW-846-8260. Not accredited for Naphthalene.

Chemist

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June 24, 2010

Andrew Parker RT Hicks Consultants 901 Rio Grande Blvd. NW Suite F-142 Albuquerque, NM 87104

Re: State QE 13 #1

Enclosed are the results of analyses for sample number H20153, received by the laboratory on 06/18/10 at 10:02 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 7 (includes Chain of Custody)

Sincerely,

Laboratory Director