1R - 501

AGWMR

01/13/2010

1R501

TRIDENT ENVIRONMENTAL

Certified Mail Return Receipt No. 7099 3400 0017 1737 1810

January 13, 2010

Mr. Glenn von Gonten
New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: Annual Report for the State 36 #2 Site (API# 30-025-36909)
T19S-R37E-Section 36, Unit Letter O, Lea County, New Mexico

Dear Glenn:

As agent for Pride Energy Company (Pride), Trident Environmental submits this *Annual Report for the State 36 #2 Site* to update the New Mexico Oil Conservation Division (NMOCD) of activities and ongoing investigations at the site in accordance with 19.15.29 NMAC. Below is a chronological list of site activity.

Dec 10, 2007	Revised C-144 pit closure form approved by NMOCD (Elke Environmental)
Feb 21, 2008	Pit closure completed in accordance with NMOCD-approved C-144 (drilling pit contents solidified, encapsulated with plastic liner, and buried by Elke Env.)
Feb 22, 2008	Five soil borings (TP-1 through TP-5) sampled in pit by Elke Environmental
Feb 22, 2008	MW-1 installed at northwest edge of pit by Elke Environmental
May 2, 2008	MW-2 installed at southeast edge of pit by Trident Environmental
May 8, 2008	Groundwater sampling event (MW-2)
May 21, 2008	*C-141 Release Notification Form* submitted by Trident
June 4, 2008	MW-3 and MW-4 installed for further delineation.
Feb 28, 2009	*Site Investigation Report and Corrective Action Plan* submitted to NMOCD

Based on the findings of soil and groundwater investigations proposed in the *Site Investigation Report*, the following work elements were proposed in the *Corrective Action Plan*:

- Installation of one monitoring well (MW-5) approximately 250 feet northeast of the east edge of the former drilling pit to delineate the downgradient extent of chloride and TDS impact.
- Installation of one monitoring well (MW-6) approximately 150 southwest (upgradient) of the west edge of the former drilling pit to determine background concentrations.
- Submission of an annual report with a recommendation for a natural restoration/ monitoring groundwater remedy, or continuation of a pump-and-use groundwater restoration strategy, if appropriate.
- Construction of an infiltration barrier (drilling pit closure plan)

The *Site Investigation Report and Corrective Action Plan* is pending NMOCD approval.

Groundwater Monitoring Results

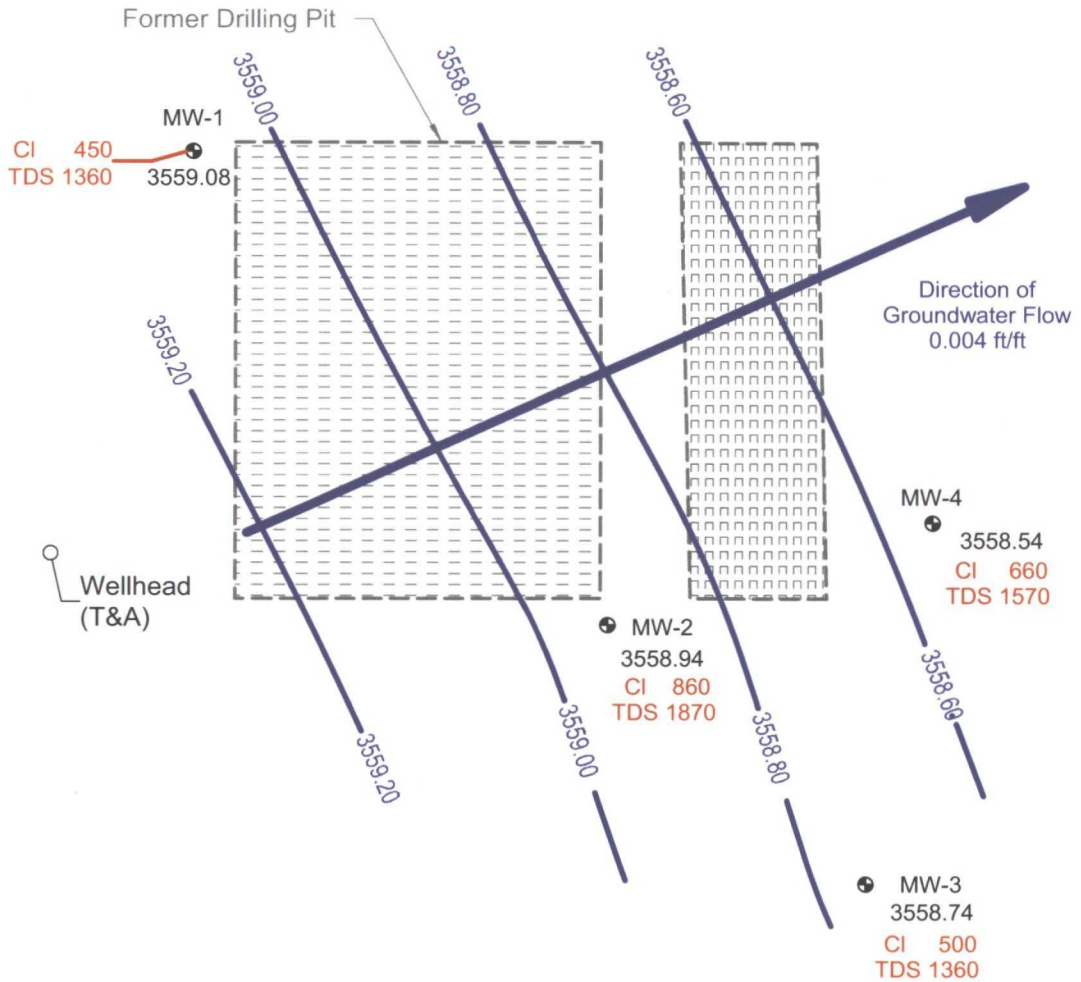
Groundwater monitoring activities have been performed at the site on a quarterly basis since January 2008 as summarized in Table 1 below.

Table 1: Summary of Groundwater Monitoring Results

Monitoring Well	Sample Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)	Chloride (mg/L)	TDS (mg/L)	BTEX (mg/L)
MW-1	02/25/08	43.80	3559.41	**489**	---	---
	03/27/08	43.88	3559.33	**557**	**1,770**	< 0.003
	06/17/08	43.89	3559.32	**594**	**1,370**	---
	09/10/08	43.97	3559.24	**440**	**1,260**	<0.003
	12/17/08	43.96	3559.25	**440**	**1,290**	<0.003
	03/19/09	44.02	3559.19	**430**	**1,240**	<0.003
	06/18/09	44.02	3559.19	**428**	**1,330**	<0.003
	09/17/09	44.08	3559.13	**456**	**1,530**	<0.003
	12/10/09	44.13	3559.08	**450**	**1,360**	<0.003
MW-2	05/08/08	43.25	3559.22	**1,450**	**2,730**	< 0.003
	06/17/08	43.31	3559.16	**1,980**	**2,730**	---
	09/10/08	43.37	3559.10	**1,580**	**3,440**	<0.003
	12/17/08	43.38	3559.09	**1,300**	**2,900**	<0.003
	03/19/09	43.41	3559.06	**1,080**	**2,380**	<0.003
	06/18/09	43.42	3559.05	**920**	**2,300**	<0.003
	09/17/09	43.47	3559.00	**810**	**1,980**	<0.003
	12/10/09	43.53	3558.94	**860**	**1,870**	<0.003
MW-3	06/17/08	43.83	3558.98	**733**	**1,810**	---
	09/10/08	43.85	3558.96	**580**	**1,660**	<0.003
	12/17/08	43.91	3558.90	**570**	**1,580**	<0.003
	03/19/09	43.91	3558.90	**560**	**1,620**	<0.003
	06/18/09	43.97	3558.84	**520**	**1,530**	<0.003
	09/17/09	44.03	3558.78	**500**	**1,410**	<0.003
	12/10/09	44.07	3558.74	**500**	**1,360**	<0.003
MW-4	06/17/08	43.54	3558.81	**1,070**	**2,150**	---
	09/10/08	43.61	3558.74	**820**	**2,070**	<0.003
	12/17/08	43.63	3558.72	**830**	**1,970**	<0.003
	03/19/09	43.67	3558.68	**810**	**1,970**	<0.003
	06/18/09	43.68	3558.67	**740**	**1,860**	<0.003
	09/17/09	43.78	3558.57	**740**	**1,690**	<0.003
	12/10/09	43.81	3558.54	**660**	**1,570**	<0.003

Total Dissolved Solids (TDS), chloride, sulfate, and BTEX concentrations listed in milligrams per liter (mg/L)
Each constituent of BTEX less than 0.001 mg/L laboratory reporting limit for each monitoring well.
Values in boldface type indicate concentrations exceed WQCC standards.
BTOC - Below Top of Casing; AMSL – Above Mean Sea Level
NA Indicates parameter was not analyzed for this constituent.

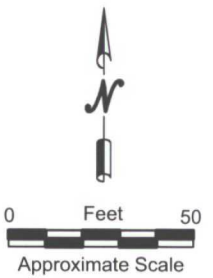
A site plan showing the recent groundwater elevation and the chloride/TDS concentrations in each monitoring well is shown in Figure 1. Figure 2 is a graph depicting chloride and TDS concentrations and groundwater elevation versus time for each monitoring well. Laboratory analytical reports and chain of custody documentation for all 2009 sampling events are included in Attachment A.



MAP LEGEND

MW-3	Monitoring Well
3559.00	Water Table Elevation (Ft AMSL)
Cl 250 TDS 1000	Chloride and TDS Concentrations in mg/L
B <0.001 T <0.001 E <0.001 X <0.003	BTEX Concentrations in all monitoring wells are less than the method detection limit for each constituent as noted (mg/L).
3559.00	Groundwater Elevation Contour (Contour Interval = 0.50 feet)

Sampling Date: December 10, 2009



TRIDENT ENVIRONMENTAL

PRIDE ENERGY COMPANY
STATE 36 #2
T19S - R37E - Section 36 - Unit O
Lea County, New Mexico

FIGURE 1

CHLORIDE, TDS, & BTEX CONCENTRATIONS AND GROUNDWATER ELEVATION MAP

Figure 2a: Chloride Concentrations vs Time

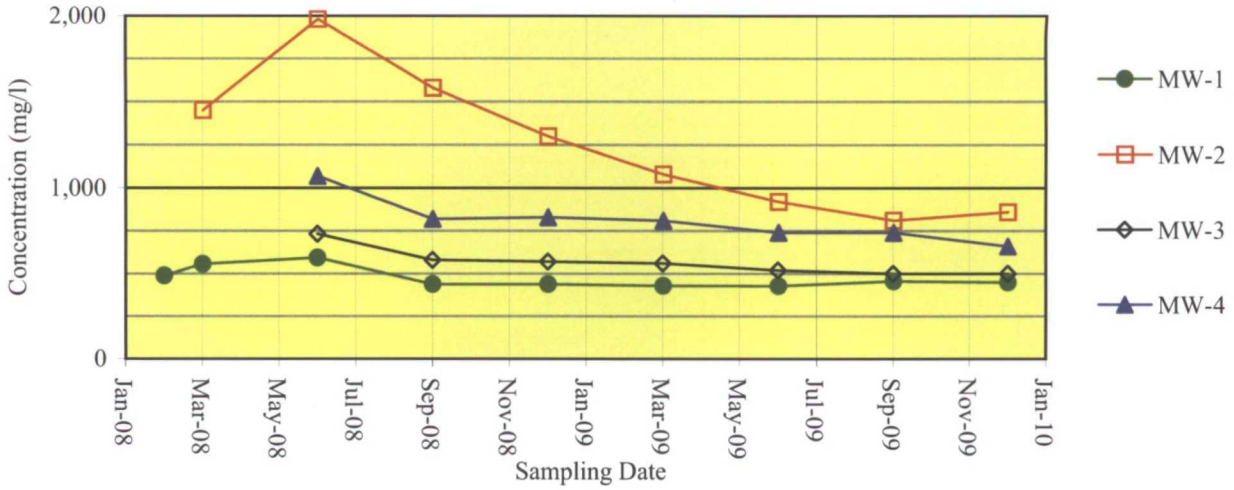


Figure 2b: TDS Concentrations vs Time

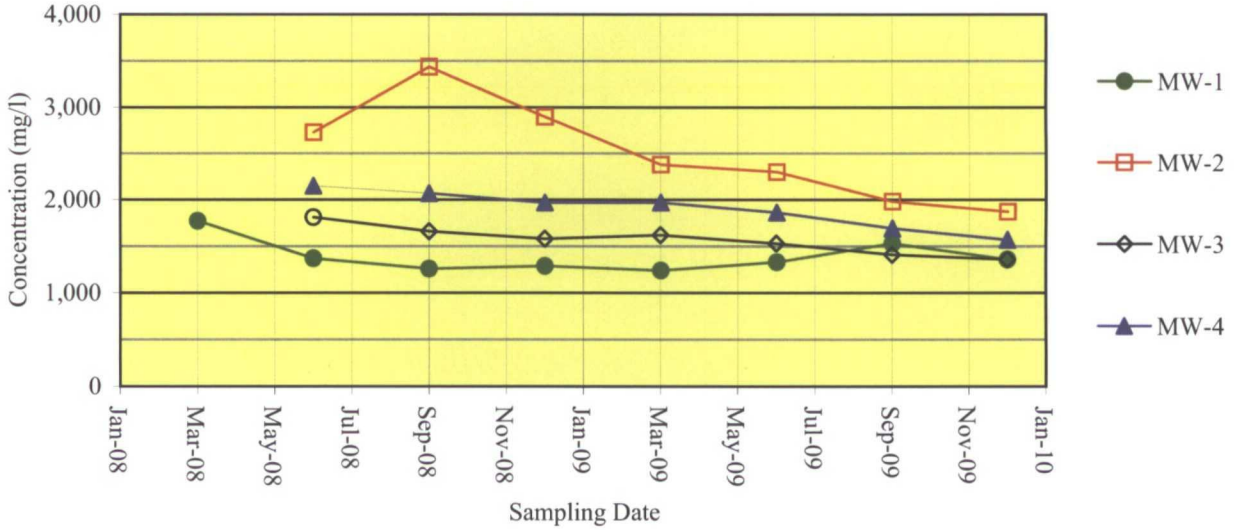
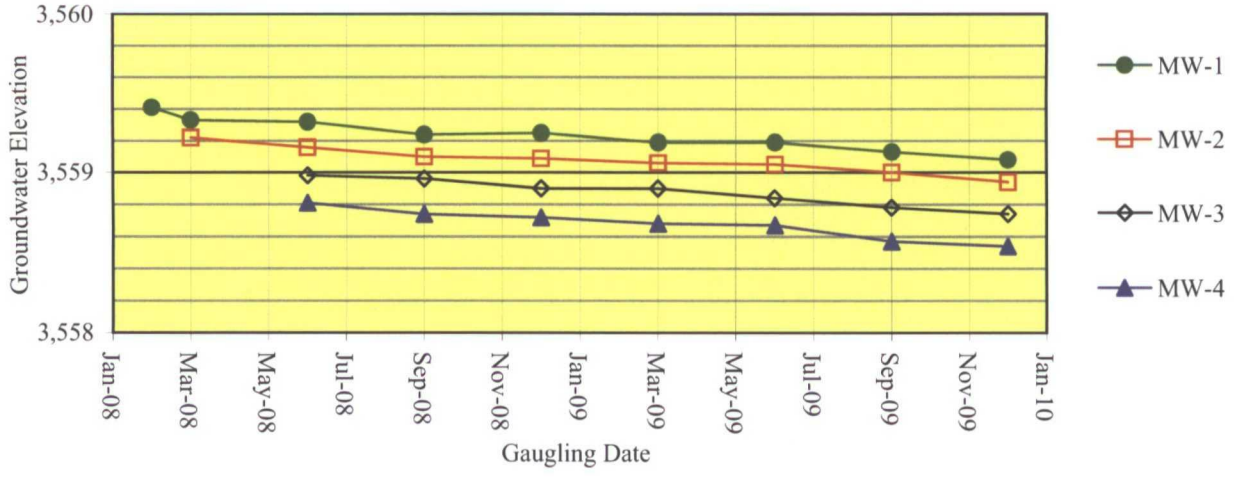


Figure 2c: Groundwater Elevations (Ft AMSL) vs Time



Below is a summary of conclusions regarding groundwater conditions:

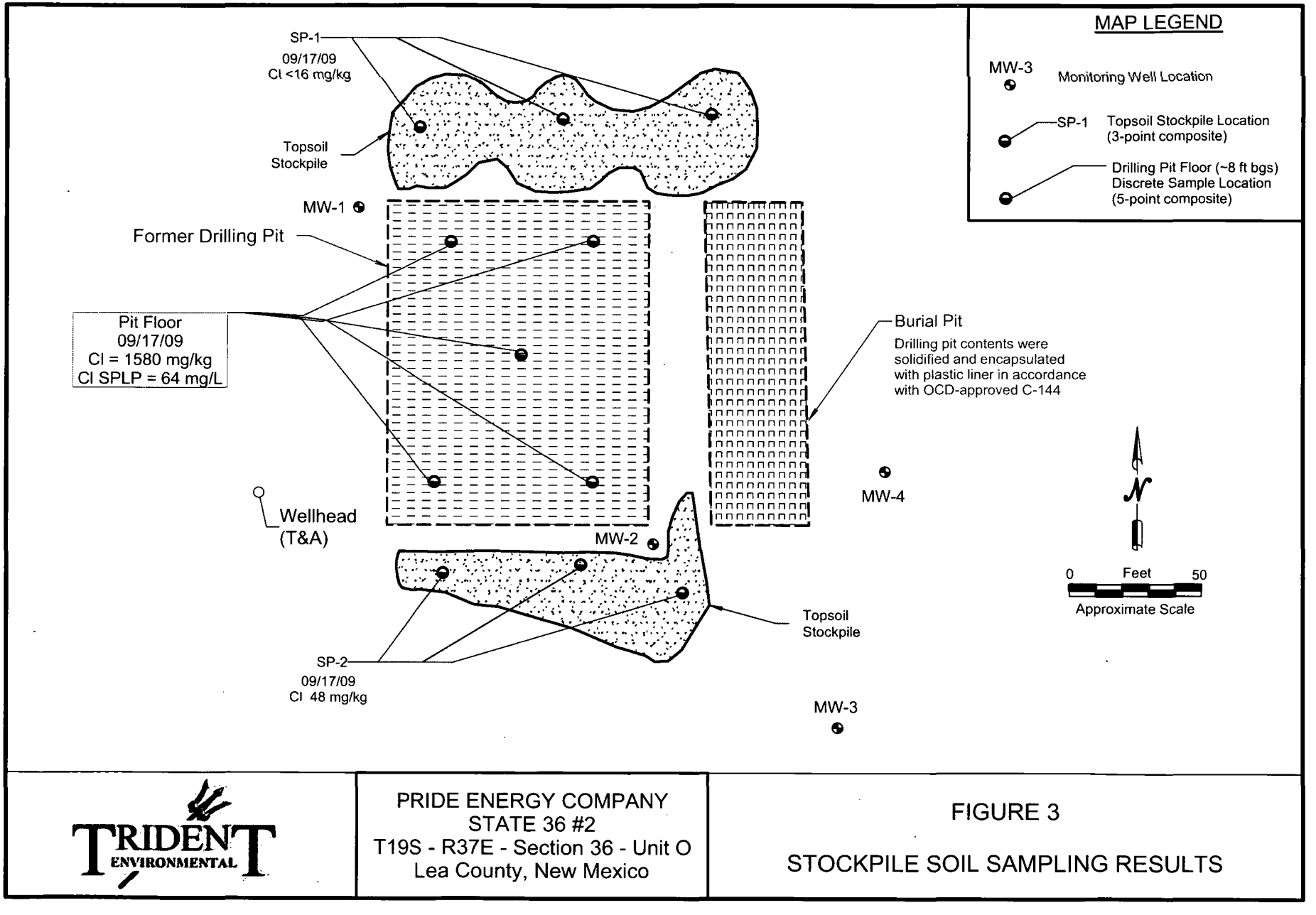
- The local water table is at a depth of approximately 41 feet bgs and slopes towards the northeast at a magnitude of approximately 0.004 ft/ft, which is anomalous to the prevailing southeast trending regional gradient.
- The base of the aquifer is at approximately 50 ft bgs, where red clay was encountered during well installations, therefore the saturated thickness is estimated at only 9 feet.
- The potential well yield for possible beneficial use of groundwater at the site is very low due to the limited thickness of the aquifer (less than 10 feet), observations of low yields during monitoring well development activities, and water table elevation declines of approximately 0.2 feet per year. In the unlikely event a water well is completed in the area, the expected yield would be less than 150 gallons per day which is considered inadequate for any beneficial domestic, irrigation, or municipal use.
- Chloride and TDS concentrations from groundwater samples collected at monitoring well MW-1, MW-2, MW-3, and MW-4 exceed WQCC standards. The highest chloride and TDS levels during the most recent sampling event in December 2009 have been observed in monitoring well MW-2 with concentrations of 860 mg/L and 1,870 mg/L, respectively.
- Chloride and TDS levels in all monitoring wells have generally exhibited a decline in concentration from baseline levels since June 2008, with an overall decline of approximately 38% for chlorides and 28% for TDS.
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) concentrations have been below laboratory detection limits and WQCC standards during the past two years; therefore, with concurrence from the NMOCD, analysis for these constituents will be suspended. Quarterly groundwater sampling and monitoring will continue.

Drilling Pit Excavation Closure Plan

Based on the soil boring data obtained by Elke in February 2008 and by Trident in May and June 2008, the chloride impact to the vadose zone is limited to the area within the perimeter of the former drilling pit. To further prepare for implementation of the vadose zone remedy, as proposed in the *Site Investigation Report and Corrective Action Plan*, a 5-point composite soil sample was collected on September 17, 2009 from the floor of the drilling pit (8 feet below ground surface) for analysis of chloride concentrations. Chloride concentration at the drilling pit floor is 1,580 mg/kg (method 4500-Cl-B) and 64 mg/L (method SPLP 1312/4500-Cl-B).

To confirm the suitability of stockpiled soil to be used as backfill material for the proposed vadose zone remedy, 3-point composite soil samples of the two existing stockpiles were also collected and analyzed for chloride content. The chloride concentrations in soil pile SP-1 (<16 mg/kg) and SP-2 (48 mg/kg) are at background concentrations and will support revegetation efforts. Soil from the drilling pit floor, mixed with stockpiled soil to reduce the chloride concentration, then capped with an infiltration barrier, will effectively abate any threat to groundwater.

Figure 3 depicts the stockpile soil sampling results. Laboratory analytical reports and chain of custody documentation are included in Attachment A.



TRIDENT ENVIRONMENTAL

PRIDE ENERGY COMPANY
STATE 36 #2
T19S - R37E - Section 36 - Unit O
Lea County, New Mexico

FIGURE 3

STOCKPILE SOIL SAMPLING RESULTS

We look forward to working with you on this project. If you have any questions please call me at 432-638-8740 or Matt Pride at 918-524-9200.

Sincerely,

Gilbert Van Deventer, REM, PG
Trident Environmental

cc: Matt Pride (Pride Energy Co., Tulsa, OK)
Larry Hill (NMOCD -District 1, Hobbs, NM)

Attachments: *Laboratory analytical reports and chain of custody documentation*

ATTACHMENT A

Laboratory Analytical Reports

And

Chain of Custody Documentation

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
TRIDENT ENVIRONMENTAL
ATTN: GIL VAN DEVENTER
P.O. BOX 7624
MIDLAND, TX 79708-7624
FAX TO: (413) 403-9968

Receiving Date: 12/10/09
Reporting Date: 12/11/09
Project Number: STATE 36 #2
Project Name: PRIDE ENERGY COMPANY
Project Location: T19S-R37E, SEC 36, UNIT LETTER O~ LEA CO., NM

Sampling Date: 12/10/09
Sample Type: WATER
Sample Condition: COOL & INTACT @ 4.5°C
Sample Received By: AB
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl^- (mg/L)	TDS (mg/L)
Analysis Date:		12/10/09	12/10/09
H18848-1	MW-1	450	1,360
H18848-2	MW-2	860	1,870
H18848-3	MW-3	500	1,360
H18848-4	MW-4	660	1,570
Quality Control		500	NR
True Value QC		500	NR
% Recovery		100	NR
Relative Percent Difference		< 0.1	1.8
METHOD: Standard Methods, EPA		4500-Cl B	160.1

Not accredited for chloride and TDS.

Chemist

12/18/09
Date

H18848 TRIDENT

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
TRIDENT ENVIRONMENTAL
ATTN: GIL VAN DEVENTER
P.O. BOX 7624
MIDLAND, TX 79708-7624
FAX TO: (413) 403-9968

Receiving Date: 12/10/09
Reporting Date: 12/17/09
Project Number: STATE 36 #2
Project Name: PRIDE ENERY COMPANY
Project Location: T19S-R37E-SEC36 UNIT LETTER O ~ LEA COUNTY - NM

Sampling Date: 12/10/09
Sample Type: WATER
Sample Condition: COOL & INTACT @ 4.5°C
Sample Received By: AB
Analyzed By: ZL

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		12/14/09	12/14/09	12/14/09	12/14/09
H18848-1	MW-1	<0.001	<0.001	<0.001	<0.003
H18848-2	MW-2	<0.001	<0.001	<0.001	<0.003
H18848-3	MW-3	<0.001	<0.001	<0.001	<0.003
H18848-4	MW-4	<0.001	<0.001	<0.001	<0.003
Quality Control		0.053	0.052	0.052	0.159
True Value QC		0.050	0.050	0.050	0.150
% Recovery		106	104	104	106
Relative Percent Difference		5.6	5.7	5.7	6.9

METHOD: EPA SW-846 8021 B

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

Chemist

12/18/09
Date

H18848WE TRIDENT

101 East Marland - Hobbs, New Mexico 88240
Tel (575) 393-2326
Fax (575) 393-2476

Cardinal Laboratories, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # _____

Company Name: Trident Environmental	BILL TO Company: Pride Energy Company / Matt Pride — PO#
Project Manager: Gil Van Deventer / Trident Environmental	Address: (Street, City, Zip) PO Box 710950, Tulsa, OK 74170-1950
Address: (Street, City, Zip) PO Box 7624, Midland, Texas 79708-7624	Phone#: (918) 524-9200 — Fax#: (918) 524-9292
Phone #: (432) 638-8740	Fax #: (413) 403-9968
Project #: State 36 #2	Project Name: Pride Energy Company
Project Location: T19S-R37E, Sec 36, Unit Letter O ~ Lea County, NM	Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	(G)rab or (C)omp	# CONTAINERS	MATRIX: WATER	SOIL	AIR	SLUDGE		PRESERVATIVE METHOD: HCL (BTEX only)	HNO_3	$NaHSO_4$	H_2SO_4	ICE	NONE	SAMPLING: DATE	TIME
H18848-1a,b,c	MW-1	G	3	X					X				X		12-10-09	0934
-2a,b,c	MW-2	G	3	X					X				X		12-10-09	1133
-3a,b,c	MW-3	G	3	X					X				X		12-10-09	1009
-4a,b,c	MW-4	G	3	X					X				X		12-10-09	1049

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE 8021B/602	BTEX 8021 B	TPH 418.1/TX1005 / TX1005 Extended (C35)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	Moisture Content	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	Total Dissolved Solids (160.1 / SM2540C)	Chlorides (325.3 / SM4500 B)		Turn Around Time ~ 24 Hours
	X														X	X		
	X														X	X		
	X														X	X		
	X														X	X		

Relinquished by:	Date: 12/10/09	Time: 1:00pm	Received by:
Relinquished by:	Date:	Time:	Received By: (Laboratory Staff)
Delivered By: (Circle One) Sampler - UPS - Bus - Other: #26	Sample Condition: Cool: Yes / No; Intact: Yes / No		CHECKED BY: (Initials)

Date: 12/10/09 Time: 1:00p

Phone Results		Yes		No	
Fax Results		Yes		No	Additional Fax Number:

REMARKS:

Email Results to:

gil@trident-environmental.com
mattp@pride-energy.com

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
TRIDENT ENVIRONMENTAL
ATTN: GIL VAN DEVENTER
P.O. BOX 7624
MIDLAND, TX 79708-7624
FAX TO: (413) 403-9968

Receiving Date: 09/17/09
Reporting Date: 09/18/09
Project Number: STATE 36 #2
Project Name: PRIDE ENERGY COMPANY
Project Location: T19S-R37E-SEC36 UNIT LETTER O~ LEA CO., NM

Sampling Date: 09/17/09
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl^- (mg/L)	TDS (mg/L)
Analysis Date:		09/18/09	09/17/09
H18265-1	MW-1	456	1,530
H18265-2	MW-2	810	1,980
H18265-3	MW-3	500	1,410
H18265-4	MW-4	740	1,690
Quality Control		500	NR
True Value QC		500	NR
% Recovery		100	NR
Relative Percent Difference		2.0	2.4

METHOD: Standard Methods, EPA	4500-Cl B	160.1

Not accredited for chloride and TDS.

Chemist

09/22/09
Date

H18265 TRIDENT

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
TRIDENT ENVIRONMENTAL
ATTN: GIL VAN DEVENTER
P.O. BOX 7624
MIDLAND, TX 79708-7624
FAX TO: (413) 403-9968

Receiving Date:	09/17/09	Sampling Date:	09/17/09
Reporting Date:	09/22/09	Sample Type:	WATER
Project Number:	STATE 36 #2	Sample Condition:	COOL & INTACT
Project Name:	PRIDE ENERY COMPANY	Sample Received By:	ML
Project Location:	T19S-R37E-SEC36 UNIT LETTER O ~ LEA COUNTY, NM	Analyzed By:	ZL

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		09/21/09	09/21/09	09/21/09	09/21/09
H18265-1	MW-1	<0.001	<0.001	<0.001	<0.003
H18265-2	MW-2	<0.001	<0.001	<0.001	<0.003
H18265-3	MW-3	<0.001	<0.001	<0.001	<0.003
H18265-4	MW-4	<0.001	<0.001	<0.001	<0.003
Quality Control		0.051	0.049	0.049	0.149
True Value QC		0.050	0.050	0.050	0.150
% Recovery		102	98.0	98.0	99.3
Relative Percent Difference		<1.0	4.4	4.5	3.7

METHOD: EPA SW-846 8021 B

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

Chemist

09/22/09
Date

H18265WB TRIDENT

101 East Marland - Hobbs, New Mexico 88240
Tel (575) 393-2326
Fax (575) 393-2476

Cardinal Laboratories, Inc.

Page 1 of

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # ____________

Company Name: Trident Environmental	BILL TO Company: Pride Energy Company / Matt Pride PO#:
Project Manager: Gil Van Deventer / Trident Environmental	Address: (Street, City, Zip) PO Box 710950, Tulsa, OK 74170-1950
Address: (Street, City, Zip) PO Box 7624, Midland, Texas 79708-7624	Phone#: (918) 524-9200 Fax#: (918) 524-9292
Phone #: (432) 638-8740	Fax #: (413) 403-9968
Project #: State 36 #2	Project Name: Pride Energy Company
Project Location: T19S-R37E-Sec36 Unit Letter O ~ Lea County - New Mexico	Sampler Signature: [signature]

LAB # (LAB USE ONLY)	FIELD CODE	(G)rab or (C)omp	# CONTAINERS	MATRIX: WATER	MATRIX: SOIL	MATRIX: AIR	MATRIX: SLUDGE	MATRIX:	PRESERVATIVE METHOD: HCL (2 40ml VOA)	HNO_3	$NaHSO_4$	H_2SO_4	ICE (1-Liter HDPE)	NONE	SAMPLING: DATE	SAMPLING: TIME
H18265-1	MW-1	G	3	X					2				1		9-17-09	1029
-2	MW-2	G	3	X					2				1		9-17-09	1245
-3	MW-3	G	3	X					2				1		9-17-09	1110
-4	MW-4	G	3	X					2				1		9-17-09	1153

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB #	MTBE 8021B/602	BTEX 8021 B	TPH 418.1/TX1005 / TX1005 Extended (C35)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	Moisture Content	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	Total Dissolved Solids (160.1 / SM2540C)	Chlorides (325.3 / SM4500 B)		Turn Around Time ~ 24 Hours
H18265-1		X														X	X		
-2		X														X	X		
-3		X														X	X		
-4		X														X	X		

Relinquished by: [signature] Date: 9/17/09 Time: 2:55pm
Received by: [signature] Date: 9/17/09 Time: 2:56p

Relinquished by: Date: Time:
Received By: (Laboratory Staff) Date: Time:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Sample Condition
Cool: Yes ✓ No
Intact: Yes ✓ No

CHECKED BY: (Initials) MCB

Phone Results [ ] Yes [ ] No
Fax Results [ ] Yes [ ] No Additional Fax Number:

REMARKS:

Email Results to:
gil@trident-environmental.com
mattp@pride-energy.com

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
TRIDENT ENVIRONMENTAL
ATTN: GIL VAN DEVENTER
P.O. BOX 7624
MIDLAND, TX 79708-7624
FAX TO: (413) 403-9968

Receiving Date: 06/18/09
Reporting Date: 06/22/09
Project Number: STATE 36 #2
Project Name: PRIDE ENERGY COMPANY
Project Location: T19S-R37E-SEC36 UNIT LETTER O~ LEA CO., NM

Sampling Date: 06/18/09
Sample Type: WATER
Sample Condition: COOL & INTACT @ 5°C
Sample Received By: AB
Analyzed By: AB

LAB NO.	SAMPLE ID	Cl^- (mg/L)	SO_4 (mg/L)	TDS (mg/L)
Analysis Date:		06/19/09	06/19/09	06/19/09
H17655-1	MW-1	428	177	1,330
H17655-2	MW-2	920	220	2,300
H17655-3	MW-3	520	207	1,530
H17655-4	MW-4	740	204	1,860
Quality Control		500	40.4	NR
True Value QC		500	40.0	NR
% Recovery		100	101	NR
Relative Percent Difference		<0.1	1.7	0.3
METHOD: Standard Methods, EPA		4500-Cl⁻B	375.4	160.1

Not accredited for chloride, sulfate and TDS.

Chemist

06/24/09
Date

H17655 TRIDENT

ARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
TRIDENT ENVIRONMENTAL
ATTN: GIL VAN DEVENTER
P.O. BOX 7624
MIDLAND, TX 79708-7624
FAX TO: (413) 403-9968

Receiving Date:	06/18/09	Sampling Date:	06/18/09
Reporting Date:	06/23/09	Sample Type:	WATER
Project Number:	STATE 36 #2	Sample Condition:	COOL & INTACT @ 5°C
Project Name:	PRIDE ENERY COMPANY		
Project Location:	T19S-R37E-SEC36, UNIT LETTER O LEA COUNTY, NM	Sample Received By:	AB
		Analyzed By:	ZL

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		06/22/09	06/22/09	06/22/09	06/22/09
H17655-1	MW-1	<0.001	<0.001	<0.001	<0.003
H17655-2	MW-2	<0.001	<0.001	<0.001	<0.003
H17655-3	MW-3	<0.001	<0.001	<0.001	<0.003
H17655-4	MW-4	<0.001	<0.001	<0.001	<0.003
Quality Control		0.047	0.046	0.046	0.137
True Value QC		0.050	0.050	0.050	0.150
% Recovery		94.0	92.0	92.0	91.3
Relative Percent Difference		<1.0	<1.0	<1.0	<1.0

METHOD: EPA SW-846 8021 B

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

Chemist

06/23/09
Date

H17655WB TRIDENT

101 East Marland - Hobbs, New Mexico 88240
Tel (575) 393-2326
Fax (575) 393-2476

Cardinal Laboratories, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # _____

Company Name: Trident Environmental	BILL TO Company: Pride Energy Company / Matt Pride — PO#
Project Manager: Gil Van Deventer / Trident Environmental	Address: (Street, City, Zip) P. O. Box 710950 ~ Tulsa, OK 74170-1950
Address: (Street, City, Zip) P. O. Box 7624 ~ Midland, Texas 79708-7624	Phone#: (918) 524-9200 Fax#: (918) 524-9292
Phone #: (432) 638-8740	Fax #: (413) 403-9968
Project #: State 36 #2	Project Name: Pride Energy Company
Project Location: T19S-R37E-Sec36 Unit Letter O ~ Lea County - New Mexico	Sampler Signature: Cathy Watkins — Rozanne Johnson (575)631-9310 rozanne@valornet.com

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	(G)rab or (C)omp	# CONTAINERS	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL (2 40ml VOA)	HNO_3	$NaHSO_4$	H_2SO_4	ICE (1-1Liter HDPE)	NONE	SAMPLING: DATE (2009)	TIME	MTBE 8021B/602	BTEX 8021 B	TPH 418.1/TX1005 / TX1005 Extended (C35)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Moisture Content	Anions (Cl, SO4, CO3, HCO3)	Cations (Ca, Mg, Na, K)	Sulfates	Total Dissolved Solids (160.1 / SM2540C)	Chlorides (325.3 / SM4500 B)	Turn Around Time ~ 24 Hours
H17655-1	MW-1	G	3	X				2				1		6/18	9:00		X																X	X	X	
-2	MW-2	G	3	X				2				1		"	11:40		X																X	X	X	
-3	MW-3	G	3	X				2				1		"	9:55		X																X	X	X	
-4	MW-4	G	3	X				2				1		"	10:50		X																X	X	X	

Relinquished by: Cathy Watkins	Date: 6-18-09	Time: 13:50	Received by: [signature]
Relinquished by:	Date:	Time:	Received By: (Laboratory Staff) [signature]
Delivered By: (Circle One) Sampler / UPS - Bus - Other: #265	Sample Condition: Cool: Yes [X] / No [ ] — Intact: Yes [X] / No [ ]		CHECKED BY: (Initials) [signature]

Date: 6/18/09 Time: 13:55

Phone Results		Yes		No	
Fax Results		Yes		No	Additional Fax Number:

REMARKS:

Email Results to:

gil@trident-environmental.com
mattp@pride-energy.com
rozanne@valornet.com

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
TRIDENT ENVIRONMENTAL
ATTN: GIL VAN DEVENTER
P.O. BOX 7624
MIDLAND, TEXAS 79708-7624
FAX TO: (413) 403-9968

Receiving Date: 03/19/08
Reporting Date: 03/23/09
Project Number: STATE 36 #2
Project Name: PRIDE ENERGY COMPANY
Project Location: T19S-R37E-SEC36 UNIT LETTER O
LEA CO., NM

Sampling Date: 03/19/09
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: HM/TR

LAB NUMBE SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (u S/cm)	T-Alkalinity ($mgCaCO_3/L$)
ANALYSIS DATE:	03/23/09	03/20/09	03/23/09	03/20/09	03/20/09	03/20/09
H17098-1 MW-1	177	208	26.7	5.2	1,820	196
H17098-2 MW-2	481	289	53.5	7.4	3,470	200
H17098-3 MW-3	272	208	29.2	7.3	2,200	220
H17098-4 MW-4	424	184	46.2	8.4	2,850	208
Quality Control	NR	48.1	51.0	2.76	1,441	NR
True Value QC	NR	50.0	50.0	3.00	1,413	NR
% Recovery	NR	96.2	102	91.9	102	NR
Relative Percent Difference	NR	<0.1	<0.1	2.9	1.0	NR
METHODS:		SM3500-Ca-D	3500-Mg E	8049	120.1	310.1

	Cl (mg/L)	SO_4 (mg/L)	CO_3 (mg/L)	HCO_3 (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:	03/20/09	03/20/09	03/20/09	03/20/09	03/20/09	03/20/09
H17098-1 MW-1	430	211	0	239	7.68	1,240
H17098-2 MW-2	1,080	265	0	244	7.58	2,380
H17098-3 MW-3	560	224	0	268	7.63	1,620
H17098-4 MW-4	810	224	0	254	7.65	1,970
Quality Control	500	41.8	NR	976	7.03	NR
True Value QC	500	40.0	NR	1000	7.00	NR
% Recovery	100	105	NR	97.6	100	NR
Relative Percent Difference	< 0.1	4.7	NR	2.4	2.3	0.6
METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1

Chemist

03/26/09
Date

H17098 TRIDENT

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
TRIDENT ENVIRONMENTAL
ATTN: GIL VAN DEVENTER
P.O. BOX 7624
MIDLAND, TX 79708-7624
FAX TO: (413) 403-9968

Receiving Date: 03/19/09
Reporting Date: 03/23/09
Project Number: STATE 36 #2
Project Name: PRIDE ENERGY COMPANY
Project Location: T19S-R37E-SEC36 UNIT LETTER O ~ LEA CO., NM

Sampling Date: 03/19/09
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: ZL

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		03/20/09	03/20/09	03/20/09	03/20/09
H17098-1	MW-1	<0.001	<0.001	<0.001	<0.003
H17098-2	MW-2	<0.001	<0.001	<0.001	<0.003
H17098-3	MW-3	<0.001	<0.001	<0.001	<0.003
H17098-4	MW-4	<0.001	<0.001	<0.001	<0.003
Quality Control		0.049	0.050	0.049	0.149
True Value QC		0.050	0.050	0.050	0.150
% Recovery		98.0	100	98.0	99.3
Relative Percent Difference		3.6	3.3	3.0	3.3

METHOD: EPA SW-846 8021 B

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

Chemist

03/26/09
Date

H17098WB TRIDENT

101 East Marland - Hobbs, New Mexico 88240
Tel (575) 393-2326
Fax (575) 393-2476

Cardinal Laboratories, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # ____________

Company Name: Trident Environmental	BILL TO Company: Pride Energy Company / Matt Pride PO#
Project Manager: Gil Van Deventer / Trident Environmental	Address: (Street, City, Zip) P. O. Box 710950 ~ Tulsa, OK 74170-1950
Address: (Street, City, Zip) P. O. Box 7624 ~ Midland, Texas 79708-7624	Phone#: (918) 524-9200 Fax#: (918) 524-9292
Phone #: (432) 638-8740	Fax #: (413) 403-9968
Project #: State 36 #2	Project Name: Pride Energy Company
Project Location: T19S-R37E-Sec36 Unit Letter O ~ Lea County - New Mexico	Sampler Signature: [signature] Rozanne Johnson (575)631-9310 rozanne@valornet.com

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	(G)rab or (C)omp	# CONTAINERS	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL (2 40ml VOA)	HNO_3	$NaHSO_4$	H_2SO_4	ICE (1-1Liter HDPE)	NONE	SAMPLING: DATE (2009)	TIME	MTBE 8021B/602	BTEX 8021 B	TPH 418.1/TX1005 / TX1005 Extended (C35)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Moisture Content	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	Total Dissolved Solids (160.1 / SM2540C)	Chlorides (325.3 / SM4500 B)	Turn Around Time ~ 24 Hours
H17098-1	MW-1	G	3	X				2				1		3-19	8:45		X															X	X	X	X	
-2	MW-2	G	3	X				2				1		3-19	11:25		X															X	X	X	X	
-3	MW-3	G	3	X				2				1		3-19	9:40		X															X	X	X	X	
-4	MW-4	G	3	X				2				1		3-19	10:30		X															X	X	X	X	

Relinquished by: [signature] Rozanne Johnson	Date: 3/19/2009 Time: 13:00	Received by: Cathy Watkins	Date: 3/19/2009 Time: 13:01
Relinquished by: Cathy Watkins	Date: 3/19/09 Time: 14:35	Received By: (Laboratory Staff) [signature]	Date: 3/19/09 Time: 2:36
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition: Cool Yes ☑ No ☐; Intact Yes ☑ No ☐	CHECKED BY: (Initials) MCB	

Phone Results ☐ Yes ☐ No
Fax Results ☐ Yes ☐ No Additional Fax Number:

REMARKS:

Email Results to:
gil@trident-environmental.com
mattp@pride-energy.com
rozanne@valornet.com

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
TRIDENT ENVIRONMENTAL
ATTN: GIL VAN DEVENTER
P.O. BOX 7624
MIDLAND, TX 79708-7624
FAX TO: (413) 403-9968

Receiving Date: 09/24/09
Reporting Date: 09/25/09
Project Number: STATE 36 #2 (API #30-025-36909)
Project Name: PRIDE ENERGY COMPANY
Project Location: T19S, R37E, SEC 36, UNIT LETTER O, LEA COUNTY, NM

Analysis Date: 09/25/09
Sampling Date: 09/17/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 1.5°C
Sample Received By: ML
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl^- (mg/kg)
H18323-1	SP-1	< 16
H18323-2	SP-2	48
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		<0.1

METHOD: Standard Methods	4500-Cl^-B

Note: Analyses performed on 1:4 w:v aqueous extracts.

Chemist

09/28/09
Date

H18323 Trident Environmental

101 East Marland - Hobbs, New Mexico 88240
Tel (575) 393-2326
Fax (575) 393-2476

Cardinal Laboratories, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # _____

Company Name:	BILL TO Company:	PO#
Trident Environmental	Pride Energy Company / Matt Pride	
Project Manager:	**Address: (Street, City, Zip)**	
Gil Van Deventer / Trident Environmental	PO Box 710950, Tulsa, OK 74170-1950	
Address: (Street, City, Zip)	**Phone#:**	**Fax#:**
PO Box 7624, Midland, Texas 79708-7624	(918) 524-9200	(918) 524-9292
Phone #:	**Fax #:**	
(432) 638-8740	(413) 403-9968	
Project #:	**Project Name:**	
State 36 #2 (API # 30-025-36909)	Pride Energy Company	
Project Location:	**Sampler Name:**	
T19S, R37E, Sec 36, Unit Letter O, Lea County NM	Gil Van Deventer	

LAB # (LAB USE ONLY)	FIELD CODE	(G)rab or (C)omp	# CONTAINERS	MATRIX					PRESERVATIVE METHOD						SAMPLING		ANALYSIS REQUEST (Circle or Specify Method No.)																		
				WATER	SOIL	AIR	SLUDGE		HCL (2 40ml VOA)	HNO_3	$NaHSO_4$	H_2SO_4	ICE	NONE	DATE	TIME	MTBE 8021B/602	BTEX 8021 B	TPH 8015M / 418.1 / TX1005 / TX1005 Extended (C35)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	Moisture Content	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	Total Dissolved Solids (160.1 / SM2540C)	Chlorides (325.3 / SM4500 B)	SPLP Chloride	Turn Around Time ~ 24 Hours
H18323-1	SP-1	C	1		X								X		9-17-09	1320																	X		
2	SP-2	C	1		X								X		9-17-09	1310																	X		

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	9/24/09	1:00pm		9/24/09	1:00
Relinquished by:	**Date:**	**Time:**	**Received By: (Laboratory Staff)**	**Date:**	**Time:**
	9/24	3:15		9/24/09	3:15

Phone Results		Yes		No	
Fax Results		Yes		No	Additional Fax Number:

REMARKS:

Email Results to:

gil@trident-environmental.com
mattp@pride-energy.com

Delivered By: (Circle One)	Sample Condition				CHECKED BY:
	Cool		Intact		
	Yes	✓	Yes	✓	(Initials) Cdk 1.5°C
Sampler - UPS - Bus - Other:	No		No		

#26

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
TRIDENT ENVIRONMENTAL
ATTN: GIL VAN DEVENTER
P.O. BOX 7624
MIDLAND, TX 79708-7624
FAX TO: (413) 403-9968

Receiving Date: 09/17/09
Reporting Date: 10/01/09
Project Number: STATE 36 #12
Project Name: PRIDE ENERGY COMPANY
Project Location: T19S-R37E-SEC36, UNIT LETTER O~ LEA CO., NM

Sampling Date: 09/17/09
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl^- (mg/kg)
Analysis Date:		10/01/09
H18264-1	PIT FLOOR (8 FT. BGS)	1,580
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		< 0.1

METHOD: Standard Methods	4500-ClˉB

Note: Analysis performed on a 1:4 w:v aqueous extract.

Chemist

10/05/09
Date

H18264Cl TRIDENT

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
TRIDENT ENVIRONMENTAL
ATTN: GIL VAN DEVENTER
P.O. BOX 7624
MIDLAND, TX 79708-7624
FAX TO: (413) 403-9968

Receiving Date: 09/17/09
Reporting Date: 09/18/09
Project Number: STATE 36 #12 900
Project Name: PRIDE ENERGY COMPANY
Project Location: T19S-R37E-SEC36, UNIT LETTER O~ LEA CO., NM

Sampling Date: 09/17/09
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl^- (mg/L)
Analysis Date:		09/18/09
H18264-1	PIT FLOOR (8 FT. BGS)	64
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		< 0.1

METHOD: Standard Methods, EPA 1312	4500-Cl^-B

Chemist

09/18/09
Date

H18264 TRIDENT

101 East Marland - Hobbs, New Mexico 88240
Tel (575) 393-2326
Fax (575) 393-2476

Cardinal Laboratories, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # _____

Company Name: Trident Environmental	BILL TO Company: Pride Energy Company / Matt Pride — PO#
Project Manager: Gil Van Deventer / Trident Environmental	Address: (Street, City, Zip) PO Box 710950, Tulsa, OK 74170-1950
Address: (Street, City, Zip) PO Box 7624, Midland, Texas 79708-7624	Phone#: (918) 524-9200 — Fax#: (918) 524-9292
Phone #: (432) 638-8740	Fax #: (413) 403-9968
Project #: State 36 #2 DAV	Project Name: Pride Energy Company
Project Location: T19S-R37E, Sec 36, Unit Letter O ~ Lea County, NM	Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	(G)rab or (C)omp	# CONTAINERS	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL (2 40ml VOA)	HNO_3	$NaHSO_4$	H_2SO_4	ICE (4 4-liter HDPE)	NONE	SAMPLING: DATE	TIME
H18264-1	Pit Floor (8ft bgs)	C	1		✓							✓		9-17-09	1420

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE/8021B/602	BTEX 8021 B	TPH 418.1/TX1005 / TX1005 Extended (C35)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	Moisture Content	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	Total Dissolved Solids (160.1 / SM2540C)	Chlorides (325.3 / SM4500 B)	SPLP Chloride	Turn Around Time ~ 24 Hours
																X		

Relinquished by:	Date: 9/17/09	Time: 2:55pm	Received by:
Relinquished by:	Date:	Time:	Received By: (Laboratory Staff)

Date: 9/17/09 Time: 2:57p

Phone Results		Yes		No
Fax Results		Yes		No Additional Fax Number:

REMARKS:

Email Results to:
gil@trident-environmental.com
mattp@pride-energy.com

Delivered By: (Circle One)	Sample Condition	CHECKED BY:
Sampler - UPS - Bus - Other:	Cool: Yes ✓ / No — Intact: Yes ✓ / No	(Initials) MAB