



HOBBS OCD

MAR 31 2014

RECEIVED

## REVIEWED

By Kristen Lynch at 7:08 am, Aug 18, 2016

State: NM

# Remediation Summary & Modified Corrective Action Report

This se	ction provides general information about the operator and the site where the spill occurred
Date:	March 26, 2014
Client:	Nearburg Producing

County: Lea

Site Name: Pennzoil Fed #2

General Information

Latitude: 32.676446

Longitude: -103.6

-103.610094

Property Owner: N

N/A

State Report No.:

Site Coordinates

## Release Description and Assessment

|--|

Date of Spill: July 30, 2013

Type of Spill: ☐ Oil ☐ Produced Water ☐ Condensate ☐ Other (Specify):

Cause of Spill: ☐ Equipment Failure ☐ Valve Failure ☐ Line Rupture ☐ Leaking Tank ☐ Tank Overfill

Other (List):

## **Other Contributing Factors or Comments:**

Quantity Spilled: 172 bbls. Quantity Recovered: 0 bbls. Total Released: 172 bbls.

Method of Recovery: ☐ Vacuum Truck ☐ Other (Specify):

OCD Notified: ⊠ Yes ☐ No C-141 Completed and Submitted: ⊠ Yes ☐ No

Spill Area Impacted: ☐ Inside Firewall ☐ On Production Pad ☐ In Pasture ☐ In Cultivated Land

Other (List):

Total Square Footage Impacted: ~1320 Estimated Depth: 4' Avg. Volume (cu. Yds): ~200 Other Comments: The southern section of the spill was delineated and determined the vertical extent of the

southern portion to be greater than 7' but less than 20'

## **Remediation Activity Summary**

## The following summarizes the activities used to remediate the spill.

In accordance with the approved corrective action plan. The goal was to remediate through excavation to the following levels:

Benzene: 10 mg/kg

BTEX: 50 mg/kg

TPH: 5,000 mg/kg

· Chlorides: 1,000 mg/kg

Corrective action consisted of manually and mechanically excavating impacted areas inside and outside of the tank battery containment area. The impacted area had been divided into 3 areas which are denoted as follows:

- SP1: Area Inside Tank Battery
- SP2: Area Off-Site Directly South of the Tank Battery Containment
- SP3: Terminus of the Spill Area

The impacted area inside the tank battery (SP1) was excavated to a maximum depth of 4 feet in the southern portion of the tank battery pad. Area SP2, directly south of the tank battery containment was excavated to a depth of 4.5 feet. The remaining area (SP3) was excavated to a depth of 7 feet. This area was noted to be a low area where a

Nearburg Producing Company Pennzoil Fed #2 Remediation Summary (Continued)

large portion of the release pooled. There was visible impacted soil in the bottom of the excavation. However the stability of the soils was insufficient to allow further excavation. Area SP3 was hand augered to a depth of 20' where field screening indicated the hydrocarbon levels were nearly below detection levels.

Throughout the course of the corrective action process, samples were collected and analyzed. Where areas were elevated in SP1 & SP2, additional excavation was performed and the area re-sampled and analyzed until it met clearance levels. As soils were excavated they were staged to a designated area. Once the excavation activities were completed, the spoil pile was laid out, sampled and analyzed. The results all of the analyses are presented below.

## **Analytical Summary**

Results of analyses following remediation activities are as follows:

Т	otal Pet		-			ng Analyti )], BTEX, &		es [Cl (mg/kg)	1	
Sample #	Depth (ft)	Date	TPH C6-C10	TPH C10-C28	TPH Total	Benzene	Toluene	Ethylbenzene	Xylenes	CI
SP1 - Bot	2	10/25/13	156	6350	6506					
SP2 – Bot	2	10/25/13	112	1160	1280					
SP3 - Bot	7	10/25/13	6550	7750	14300					
SP3 - N. Wall	3.5	10/25/13	1610	2320	3930					
SP3 – S. Wall	3.5	10/25/13	<10.0	539	539					
SP3 – E. Wall	3.5	10/25/13	<10.0	<10.0	<10.0					
SP3 Delineation	20'	10/25/13	<10.0	<10.0	<10.0					
SP1 - Bot	4.5	10/28/13	<10.0	<10.0	<10.0	<0.050	<0.050	<0.150	<0.030	192
SP3 - Bot	7	10/28/13				<0.200	1.80	1.20	13.8	176
SP3 - N. Wall	3.5	10/28/13				<0.200	1.09	0.832	10.3	128
SP3 – S. Wall	3.5	10/28/13				<0.050	<0.050	<0.150	<0.050	<16.0
SP3 – W. Wall	3.5	10/28/13				<0.200	<0.200	<0.200	<0.600	<16.0
SP3 - E. Wall	3.5	10/28/13				<0.050	<0.050	<0.050	<0.150	32.0
SP3 Delineation	20	10/28/13				<0.050	<0.050	<0.050	<0.150	<16.0
SP2 - N. Wall	3.5	10/31/13				<0.050	0.994	0.769	4.69	235
SP2 - Bot	2	12/19/13	>10.0	441	441	<0.050	<0.050	<0.150	<0.030	544
SP2 - Bot	4.5									464
SP3 – N. Wall	3.5	12/19/13	<10.0	139	139	<0.050	0.055	<0.050	<0.050	256
Spoil Pile	N/A	11/14/13	84.1	1730	1814.1					
Spoil Pile	N/A	02/13/14				<0.050	<0.050	<0.150	<0.030	208
SP2 Bot Delineation	6		<10.0	<10.0	<10.0	<0.050	<0.050	<0.150	<0.030	<16.0

<sup>\*</sup> ND = Non-Detect; concentration below detection limits.

Red Values indicate above regulatory threshold levels

Green Values indicate at or below regulatory threshold levels.

A review of the analytical data indicated Areas SP1 & SP2 are within the Oil Conservation Division (OCD) regulatory threshold limits. Based upon this information it has been determined that remediation of the site is complete for these areas. It should be noted that delineation of SP2 determined this area was below the required delineation level of 250 mg/kg for chlorides at 6' below ground level.

Because of soil stability issues, Area SP3 could not be excavated further. The installation of a 20 mil liner in the bottom of the excavated area was proposed and approved by NMOCD prior to backfilling. The delineation of SP3 determined this area was below the required delineation level of 250 mg/kg for chlorides at 20' below ground level.

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Nearburg Producing Company Pennzoil Fed #2 Remediation Summary (Continued)

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After the installation of the liner in SP 3, the entire pasture area excavation was backfilled with clean soil and top soil installed from adjacent areas. The site was contoured across the gradient and seeded per BLM specifications. Upon completion of seeding, the pasture area was fenced to keep livestock off of the area while the site vegetates. Once the site has vegetated, the fence will be removed.

In addition, the spoil pile from the excavation activities was well below regulatory threshold levels. Consequently, agreed, this soil incorporated back into the tank battery and used as fill material and supplement the construction of new containment walls. The new containment was installed in 6" lifts and compacted until it reached the predetermined height of 2' vertical. While it was noted that this is an exception to normal protocols, it was agreed by NMOCD that this is a rare case where the location of the site along with the nature and levels of the contaminants were such that reuse of the soil was technically and environmentally well suited.

Copies of the photographs, final C-141, site diagram, and analytical reports and are attached.

Prepared by:

Fred Holmes
Project Manager

Etech Environmental & Safety Solutions, Inc.

Sul Holme



1. View of impact area inside tank battery.



2. View of spill area terminus in the pasture area (SP3.)



3. View of excavated area at the terminus (SP3).



4. View of the area adjacent to the battery following excavation (SP2).



5. View of SP3 following liner installation and seating.



6. View of the excavation during backfilling operations.



7. View of the tank battery area after restoration.



8. View of the pasture area following backfilling, contouring, seeding, and fencing.

## Final C-141

# HOBBS OCD

District I
1625 N. French Dr., Hobbs, NM SEPAR 3 1 2014
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87 RECEIVED
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-141 Revised October 10, 2003

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC

			Rele	ease Notific	cation			ction		
						<b>OPERA</b>			nitial Report	
		earburg Proc				Contact: Tir	. 0.0011			
				and, TX 79705			No.: 432-818-29	940		
Facility Nai	ne: Pennzo	oil Federal #	2			Facility Typ	e: Oil Well			
Surface Ow	ner: Burea	u ol Land M	anageme	nt Mineral (	owner. I	Burcau of L	and Managemen	nt AP	No.: 30-025-264	499
				LOCA	ATION	OF REI	LEASE			
Unit Letter H	Section 12	Township 193	Range 33E	Feet from the 1980	The state of the s	South Line North	Feet from the 660	East East	ne County	Lea
				Latitud	le:	Longitud	e:			
				NAT	URE	OF REL	EASE			
Type of Rele	ase: Light C	Dil				Volume of	Release: 172	Volu	me Recovered: 0	
Source of Re						Date and H 07/30/2013	lour of Occurrence	ce: Date	and Hour of Disco	very:
Was Immedia	ate Notice C		Yes [	No Not Re	equired	If YES, To E.L. Gonza	Whom? les NMOCD & 1	Mike Burton B	LM	
By Whom? R	oger King					Date and H	lour 07/30/13 153	00 hrs		
Was a Water			Yes 🗵	No		If YES, Vo	lume Impacting	the Watercours	e.	
pending.  Describe Are	a Affected a	and Cleanup A	Action Tak	en.* : A correctiv					e tank. Corrective	
hereby certi regulations al public health should their o	fy that the in a perations or the environment on the perations have been seen as the perations of the perati	are required to conment. The ave failed to a	ven above report ar acceptanc dequately	is true and comp d/or file certain r e of a C-141 repo investigate and r	elease no ort by the emediate	tifications as NMOCD made contamination	nd perform correct arked as "Final R on that pose a thr	ctive actions for eport" does no eat to ground w	pursuant to NMOX r releases which m t relieve the operate vater, surface wate for compliance with	ay endanger for of liability r, human health
		s and/or regu							ON DIVISION	
Signature:	1	Ser	_							-
Printed Name	: Tim Gree	n			1	Approved by	District Supervis	or. Western	U	
Title: Market	ing & Produ	iction Service	s Manage		1	Approval Dat	e: 8/18/2016	Expira	tion Date:	
E-mail Addre Date: 03/26/1		@nearburg.com		818-2940		Conditions of	Approval:		Attached [	□ P-4365

\* Attach Additional Sheets If Necessary

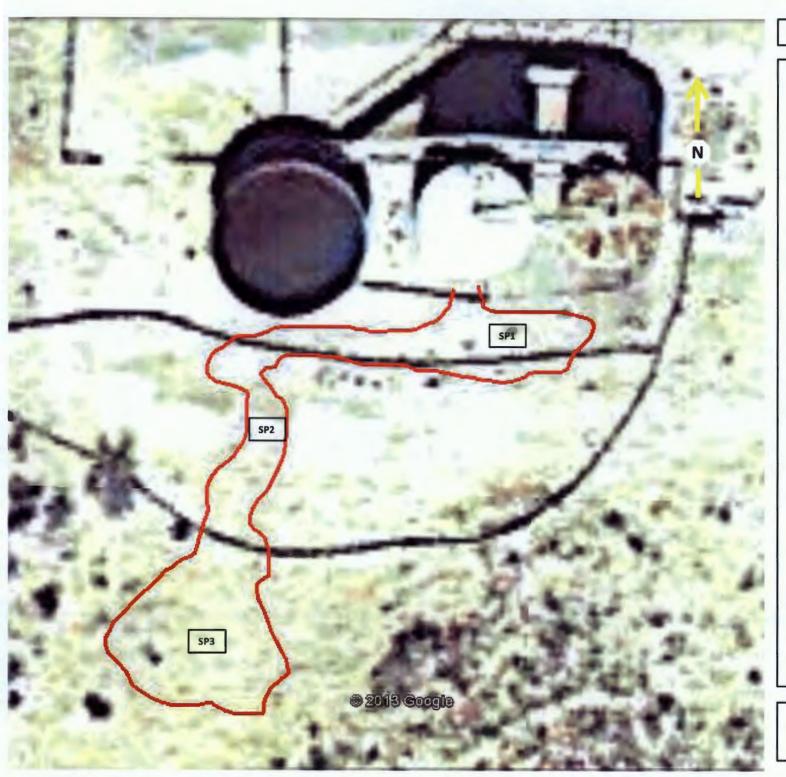
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# Site Diagram

#### Reclamation Plan Overview

- Excavate the area within the tank battery to a depth where there are no visual or screened indications of hydrocarbons, or 3-4' below ground level (bgl). For safety reasons, the excavation will taper upward towards the tanks to a maximum depth of 6" – 1' bgl within 3-4 feet of the tanks. Screening will be done using a PID.
- Excavate the area outside of the containment to a depth where there are no visual or screened indications of hydrocarbons or 6-7' bgl which is below the root zone for the vegetation in the area.
- Once screening indicates contamination is no longer present, or if maximum depth is achieved, samples will be collect at the designated points (SP) on the image and analyzed for TPH.
- If hydrocarbons are left in place inside or outside of the containment, a liner will be installed prior to backfilling.
- Backfilling of the area inside the containment will be with caliche to grade. Backfilling outside of the containment will be by using fill material sources. with 6-12 " of top soil from on-site borrow sources.
   Site in this area is to be left rough.
- Off-pad areas are to be seeded by broadcast or seed drill.
- Tank battery containment will be repaired and areas fenced until vegetation takes hold.

Nearburg Producing Pennzoil Fed #2 Reclamation Plan



# **Analytical Results**



March 14, 2014

KIT PRICHARD

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: PENZOIL FED #2

Enclosed are the results of analyses for samples received by the laboratory on 03/13/14 15:00.

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">www.tceq.texas.gov/field/ga/lab</a> accredited certif.html.

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.

Celeg D. Keens

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



ETECH Environmental & Safety Solutions, Inc. KIT PRICHARD

P. O. BOX 8469 MIDLAND TX, 79708

Fax To:

(432) 563-2213

Received:

03/13/2014

Reported:

03/14/2014

Project Name:

PENZOIL FED #2 204-4447-000

Project Number: Project Location:

LEA COUNTY, NM

Sampling Date:

Sampling Type:

03/06/2014 Soil

Sampling Condition:

Sample Received By:

\*\* (See Notes)

Jodi Henson

Sample ID: SP 2 6' (H400768-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2014	ND	2.16	108	2.00	6.59	
Toluene*	< 0.050	0.050	03/14/2014	ND	2.04	102	2.00	6.83	
Ethylbenzene*	<0.050	0.050	03/14/2014	ND	1.97	98.7	2.00	6.97	
Total Xylenes*	<0.150	0.150	03/14/2014	ND	5.68	94.7	6.00	6.86	
Total BTEX	<0.300	0.300	03/14/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS .	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/14/2014	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/14/2014	ND	199	99.6	200	8.31	
DRO >C10-C28	<10.0	10.0	03/14/2014	ND	194	96.9	200	5.88	
Surrogate: 1-Chlorooctane	91.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	90.7	% 63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

any other cause whatsoever shall be deemed valved unless made in writing and received by Carolina within thirty (30) days after completion of the applicable service. In no event shall cardina be label for incidental caronascurvatial damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Carolinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise, Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Carolinal Laboratories,

Celecy D. Keena



#### **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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Celey D. Keine



## **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name	ETERH							- 4		. 10		X			-	ANA	YSI	RE	QUE	ST			
Project Manager	FIRED HOLMS						P.O.	#: 20	04-	4447	-000												
Address: /210	O WEST HON 80 E	457					Com	pany:													·		
City: OSESSA		TX. ZI	): T	797	65		Attn:																: .
Phone #:	Fax #:						Addı	ress:						. 1			1						
Project #: 204	1-4447-000 Project	et Owner:					City:				4					ľ							
Project Name:	ENZOIL FEDERAL 2						State	e:	Zi	p:					.,								
Project Location							Pho	ne #:														^	
Sampler Name:	LITTRIUMEI)						Fax	#:	,				- 1										
FOR LAB USE ONLY					MATR	IX	P	RESER	RV.	SAMPLI	NG												
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	Z	GROUNDWATER	SOIL	SLUDGE	OTHER:	ICE / COOL	OTHER:	DATE	TIME	Out	TPH	Brex									
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						11		11												-			
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enalyses. All claims includit service. In no event shall C	nd Damages. Cardina's lability and client's exclusive no those for negligence and any other cause whats ardinal be liable for incidental or consequental dam and out of or related to the performance of services:	oever shall be deeme ages, including with hereunder by Cardin	ed waiv out limit al, rega	red unless tation, busi	made in wo ness interna- mether suc	iting and aptions, le	receive ass of u	d by Cardi se, or loss	inal within	a 30 days after incurred by	er completion of client, its subsidi	the applicablation, fise.	□ Yes		No No	Add'l	Phone Fax#:	#:					
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February 14, 2014

KIT PRICHARD

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: PENZOIL FED #2

Enclosed are the results of analyses for samples received by the laboratory on 02/13/14 16:30.

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/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

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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.

Celeg Theene

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



ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To:

(432) 563-2213

Received:

02/13/2014

Sampling Date:

02/13/2014

Reported:

02/14/2014

Sampling Type:

Soil

Project Name:

PENZOIL FED #2

Sampling Condition:

\*\* (See Notes)

Project Number:

204-4447-000

Sample Received By:

Jodi Henson

Project Location:

LEA COUNTY, NM

## Sample ID: BLEND PILE (H400443-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2014	ND	2.25	113	2.00	5.84	
Toluene*	<0.050	0.050	02/14/2014	ND	2.26	113	2.00	4.05	
Ethylbenzene*	<0.050	0.050	02/14/2014	ND	2.23	111	2.00	4.06	
Total Xylenes*	<0.150	0.150	02/14/2014	ND	6.57	110	6.00	2.90	
Total BTEX	<0.300	0.300	02/14/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/14/2014	ND	416	104	400	0.00	

Cardinal Laboratories \*=Accredited Analyte

The proof is the sense of the applicable services. Cardinal's liability and client's exclusive remedy for any claim arising, whether besed in contract or tort, shall be limited to the amount paid by client for analysiss. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is bessed upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keena

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

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\*\*\* 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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Celey D. Keine



Company Name:

## **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

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City:	State:	Z	ip:					Attn	:															
Phone #:	Fax #:							Add	ress	:														
Project #: 204-4	1447-000 Project 0	wner:						City:													•			
A .	roil Fed #2							State	e:		Zip:													
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Sampler Name:	e Frisen							Fax	#:	** **		** .												
FOR LAB USE ONLY	<u> </u>		T	T	N	IATRI	_		RES	ERV.	SAMPL	NG	N											
Lab I.D. H40044.3	Sample I.D.		(G)RAB OR (C)OMP.	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	OTHER:	DATE	TIME	Chlorich	8 Tex	-									
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affiliates or successors arising out of	or related to the performance of services hereu	nder by Caro	dinal, re	cardes	of whe	ther suc	claim i	s based	upon a	iny of th	e above stated re	easons or other	Nise.			7 11	14.00					,		
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<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



February 12, 2014

KIT PRICHARD

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: PENZOIL FED #2

Enclosed are the results of analyses for samples received by the laboratory on 02/11/14 16:23.

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">www.tceq.texas.gov/field/ga/lab</a> accredited certif.html.

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.

Celeg D. Keene

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



ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received:

02/11/2014

02/11/2014

Reported:

02/12/2014

Soil

Project Name:

Sampling Date: Sampling Type: Sampling Condition:

\*\* (See Notes)

PENZOIL FED #2

Sample Received By:

Kathy Perez

Project Number: Project Location:

204-4447-000 LEA COUNTY, NM

## Sample ID: SP 2 BOTTOM 4.5' (H400417-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	02/12/2014	ND	416	104	400	3.92	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remody for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celegy D. Keene



#### **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

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, it is subsidiaries, suffisiences arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keina



Company Name: E-Tech.

## **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

ANALYSIS REQUEST

101 East Mariand, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

oject Manager: Kit Prichard							P.C	). #:	26	24-4L	147-	000				1.			1		1 1 10 10	****		
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ty: State:	Zip	):					Att	n:																
none #: Fax #:							Add	dres	s:									1						
oject #: 204-4447-660 Project Own	er:						City	y;																
roject Name: Pennaoil Fed #2							Sta	te:		Zip:							1							
oject Location:							Pho	one	#:															
ampler Name: Terry Osborn							Fax	(#:																
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EASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy f																		-						-
sysse. All daims including those for negligence and eny other cause whetsoever shall ylos. In no event shall Cardinal be liable for incidental or consequental demages, inclu	ling with	out Emi	tation, t	usinese l	ntemup	tions, I	lage of	use, c	KJoss	of profits inc	surred by	client, its subsidi	arles,	ek										
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December 20, 2013

KIT PRICHARD

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: PENZOIL FED #2

Enclosed are the results of analyses for samples received by the laboratory on 12/19/13 15:30.

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">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

Lab Director/Quality Manager



ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To:

(432) 563-2213

Analyzed By: MC

Received:

12/19/2013

Reported: Project Name: 12/20/2013

Project Number:

PENZOIL FED #2 204-4447-000

Project Location:

RTEY 80218

LEA COUNTY, NM

Sampling Date:

12/19/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: \*\* (See Notes)

Jodi Henson

## Sample ID: SP 2 BOTTOM 2' (H303085-01)

BTEX 8021B	mg/	kg	Anatyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2013	ND	1.94	97.0	2.00	2.13	
Toluene*	<0.050	0.050	12/20/2013	ND	1.93	96.5	2.00	2.25	
Ethylbenzene*	<0.050	0.050	12/20/2013	ND	1.91	95.5	2.00	2.12	
Total Xylenes*	<0.150	0.150	12/20/2013	ND	5.63	93.8	6.00	1.25	
Total BTEX	<0.300	0.300	12/20/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.7	% 89.4-120	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	12/20/2013	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/20/2013	ND	198	98.8	200	1.26	
DRQ >C10-C28	441	10.0	12/20/2013	ND	197	98.6	200	1.90	
Surrogate: 1-Chlorooctane	98.1	% 65.2-140	0						
Surrogate: 1-Chlorooctadecane	125 %	63.6-154	4						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether besed in contract or tort, shall be limited to the amount paid by client for analysiss. All claims, including those for negligence and any other cause whatsoever shall be deemed walved unless made in verting and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated rescorsor or otherwise. Results related in the performance of the services hereunder by Cardinal shows. They

Celey D. Keene



ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To:

(432) 563-2213

Received:

12/19/2013

Reported:

12/20/2013

Project Name:

PENZOIL FED #2

Project Number: Project Location:

204-4447-000

Sampling Date:

12/19/2013

Sampling Type:

Soil

Sampling Condition:

\*\* (See Notes)

Sample Received By:

Jodi Henson

LEA COUNTY, NM

## Sample ID: SP 3N WALL 3.5' (H303085-02)

BTEX 80218	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2013	ND	1.94	97.0	2.00	2.13	
Toluene*	0.055	0.050	12/20/2013	ND	1.93	96.5	2.00	2.25	
Ethylbenzene*	<0.050	0.050	12/20/2013	ND	1.91	95.5	2.00	2.12	
Total Xylenes*	<0.150	0.150	12/20/2013	ND	5.63	93.8	6.00	1,25	
Total BTEX	<0.300	0.300	12/20/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.8	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	12/20/2013	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/20/2013	ND	198	98.8	200	1.26	
DRO >C10-C28	139	10.0	12/20/2013	ND	197	98.6	200	1.90	
Surrogate: 1-Chlorooctane	106 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	1199	63.6-15	4						

## Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be Bable for incidental or consequential clamages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subcladrates, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the amples identified above. This report shall not be reproduced except in full with written approval of Cardinal Liaboratories.

Celey D. Kune



#### **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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Celey D. Keene



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: Etcch		ANALYSIS REQUEST
Project Manager: Kit pritchard	P.O. #: 204-447-000	
Address:	Company:	
City: State: Zip:	Attn:	
Phone #: Fax #:	Address:	
Project #: 204 - 4447-00 Project Owner: Near bury	City:	
Project Name: Penn 2011 Fed #2	State: Zip:	
Project Location: 1 ea County Sampler Name: Terry Osborn	Phone #:	
Sampler Name: Terry Osborn	Fax #:	je   X
FOR LAB USE ONLY MA	X PRESERV. SAMPLING	1.9 X
(C)OMF		0 # 140
Lab I.D. Sample I.D.		100 H
B F S E	SLUDGE OTHER: ACID/BASE: OTHER: OTHER:	100
H303085	SLUDGE OTHER: ACIDIBAS OTHER: OTHER:	
	12-19-13	
1 5/2 Bottom 2' V 2 5/3 N. wall 3.5' V	12-14-13	
PLEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remedy for any claim arising whether base		
analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business in	ations, loss of use, or loss of profits incurred by client, its subsidia	laries,
affiliates or auccessors arising out of or retarted to the performence of services hereunder by Cardinal, regardless of shether Relinquished By:    Date:   Regelved By:   12 - 17 - 13	Phone Re	esult:    Yes    No    Add'i Phone #:
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Sampler - UPS - Bus - Other:	Yes CTAT	
t Cardinal connet accent without changes. Places fay written chan		



November 15, 2013

KIT PRICHARD

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: PENZOIL FED #2

Enclosed are the results of analyses for samples received by the laboratory on 11/14/13 8:15.

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/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

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.

Celeg 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



ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To:

(432) 563-2213

Received: Reported: 11/14/2013

11/15/2013

Project Name:

PENZOIL FED #2 204-4447-000

Project Number: Project Location:

LEA COUNTY, NM

Sampling Date:

11/14/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: SPOIL PILE (H302774-01)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	84.1	10.0	11/14/2013	ND	182	91.1	200	5.05	
DRO >C10-C28	1730	10.0	11/14/2013	ND	182	90.8	200	6.00	
Surrogate: 1-Chlorooctane	115 % 65.2-140		10						
Surrogate: 1-Chlorooctadecane	138	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinals's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subclidaries, affiliates or successors arising out of or related to the performance of the services harvender by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with writers approved of Cardinal Laboratories.

Celey D. Kuna



#### **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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Celeg D. Keena



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name					ANALISIS	VEGOESI
Project Manager			P.O. #: 204-447-00	20		
Address:			Company:			
City:	State:	Zip:	Attn:			
Phone #:	Fax #:		Address:			
Project #: 28	14-4447 - 000 Project Own	er:	City:			
Project Name:	Pennzoil Fed #	2	State: Zip:			
Project Location			Phone #:			
Sampler Name:	Terry Osborn		Fax #:			
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING			
		MG A				
. : [		OR (C)OMP AINERS DWATER WATER		2		
Lab I.D.	Sample I.D.	(G)RAB OR (C)ON # CONTAINERS GROUNDWATER WASTEWATER SOIL	ACIDIASE: ACIDIASE: OTHER: OTHER:	0		
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H302774		# COI GRO GRO SOIL				
-	Spoil pile		V 11-4-13 7:11	5 0		
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PLEASE NOTE: Liability an	nd Damages. Cardinal's flability and client's exclusive remedy	or any claim arising whether based in con	tract or tort, shall be limited to the amount paid by the o	lient for the		
condes in no quant shall C	ng those for negligence and any other cause whatsoever shall ardinal be liable for incidental or consequental damages, Inclu	ding without fimilation, business interruption	ons, loss of use, or loss of profits incurred by client, its a	pubsidiaries.		
Relinquished By	ing out of or related to the performance of services hereunder	Received By:	Phon	e Result: Yes In		
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	Time:			KUSH		
Delivered By	: (Circle One)	Sample Con Cool Intac				
Sampler - UPS	- Bus - Other:	Zo Dyes D	Yes / 7/7			
		JC NO I	No (575) 303 3396			



November 01, 2013

KIT PRICHARD

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: PENZOIL FED #2

Enclosed are the results of analyses for samples received by the laboratory on 10/31/13 15:45.

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">www.tceq.texas.gov/field/ga/lab</a> accredited certif.html.

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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.

Celeg & 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



ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND TX, 79708

Fax To:

(432) 563-2213

Received:

10/31/2013

Reported: Project Name: 11/01/2013 PENZOIL FED #2

Project Number: Project Location: 204-4447-000 LEA COUNTY, NM Sampling Date:

10/31/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Sample ID: SP 3 N. WALL 3.5' (H302664-01)

BTEX 8021B	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2013	ND	2.06	103	2.00	0.153	
Toluene*	0.994	0.050	11/01/2013	ND	2.05	103	2.00	0.309	
Ethylbenzene*	0.769	0.050	11/01/2013	ND	2.07	104	2.00	0.301	
Total Xylenes*	4.69	0.150	11/01/2013	ND	5.96	99.4	6.00	0.106	
Total BTEX	6.45	0.300	11/01/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	153	% 89.4-12	6						
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	80.5	10.0	11/01/2013	ND	175	87.6	200	8.35	
DRO >C10-C28	235	10.0	11/01/2013	ND	165	82.6	200	10.0	
Surrogate: 1-Chlorooctane	85.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	117	% 63.6-15	4						

## Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remady for any cleim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All cleims, including those for negligence and any other cause whatsoever shall be determed weived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurring by client, its subsidiaries, arisingtess or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



#### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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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Celey D. Kuna



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: E tech Project Manager: K:t pritchard R.O. #: 2 94-444 /- 00 0 Company: City: State: Zip: Attn: Phone #: Fax #: Address: Company: City: State: Zip: Attn: Project State: Zip: Project Name: Pen nzoil Fed # 2 Project Name: Pen nzoil Fed # 2 Project Location: Len County: Project Location: Len County: Phone #: Pax #: Project Name: Terry Qs for n  RATHIVAL PRESERV, SAMPLING    Nattrix   PRESERV, SAMPLING   Sample I.D.   Samp	Company Name: Etech											CL 70		26				ANA	LYS	SIS	REC	QUE	ST	 	
Address:  City: State: Zip: Attn:  Phone #: Fax #: Address:  Project Name: Pen nzoi   Fet # 2   State: Zip:  Project Location: Lea county.  Sampler Name: Terry Qs for n   Fax #:  For LAB USE CMAY  Lab I.D. Sample I.D.   Sample I.D.   Sample I.D.   Sample I.D.   Sample I.D.    #300000 # 500 M	Project Manager: Kit pritchard							P.C	). #.	: 0	20	4-444	7-000				T		1						
Phone #: Fax #: Address:  Project #: 204-4477-000 Project Owner: City:  Project Name: Pen nzoi   Fed # 2   State: Zip:  Project Location: Lea county.  Sampler Name: Terry Qs barn  For Lab Use Use Colly  Lab I.D. Sample I.D.  #300004  Sp3 N. vall 3.51	The state of the s							Co	mp	any	:									1					
Project #: 204-447-000 Project Owner:  Project Name: Pen nzoi   Fed # 2   State: Zip:  Project Location: Lea County   Phone #:  Sampler Name: Terry Qstorn  For LAB USE ONLY  Lab I.D. Sample I.D.   WOOD BY	City: State:	Zip	):					Att	n:				-			-									1.
Project Name: Pen n 20:   Fed # 2   State: Zip:   Phone #:    Sampler Name: Terry Qs born   Fax #:   Phone #:   #:	Phone #: Fax #:							Ad	dre	ss:		: .													
Project Location: Lea County  Sampler Name: Terry Ostaro  Fax*:  FOR LAB URE ONLY  Lab I.D. Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Samp	Project #: 204-4447-000 Project Owns	r:						Cit	y:							1									
Project Location: Lea County  Sampler Name: Terry Ostaro  Fax*:  FOR LAB USE ONLY  Lab I.D. Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Samp	Project Name: Pen nzoil Fed #2							Sta	ate:			Zip:	-												
Sampler Name: Terry Qstaro  Fax #:  FOR LAB USE ONLY  Lab I.D.  Sample	Project Location: Lea County.							Ph	one	#:						-	1 .								
Tab I.D. Sample I.D. Sample I.D. Soll Sconnownter Actional Sconnown College Sconnown Colleg	Sampler Name: Terry Osborn							Fa		_										١.					
1 Sp3 N. mail 3.5' V 10-31-13 2:30 V 1	Lab I.D. Sample I.D.		VTAINERS	JNDWATER	:	ATRI		 	Ü				NG	Hd	STEX										
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<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



October 30, 2013

KIT PRICHARD

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: PENZOIL FED #2

Enclosed are the results of analyses for samples received by the laboratory on 10/29/13 15:10.

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">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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.

Celeg 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



ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To:

(432) 563-2213

Received:

10/29/2013

10/30/2013

Sampling Date:

10/29/2013

Reported:

Sampling Type:

Project Name:

PENZOIL FED #2 204-4447-000

Sampling Condition:

\*\* (See Notes)

Project Number:

Sample Received By:

Jodi Henson

Project Location:

LEA COUNTY, NM

# Sample ID: SP 2 BOTTOM 2' (H302623-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	10/30/2013	ND	2.02	101	2.00	0.429	
Toluene*	<0.100	0.100	10/30/2013	ND	2.00	100	2.00	0.174	
Ethylbenzene*	<0.100	0.100	10/30/2013	ND	2.00	99.8	2.00	0.532	
Total Xylenes*	<0.300	0.300	10/30/2013	ND	5.85	97.5	6.00	0.0606	
Total BTEX	<0.600	0.600	10/30/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/30/2013	ND	416	104	400	3.92	

Cardinal Laboratories \*=Accredited Analyte

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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

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be Bable for incidental or consequential clamages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keena



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:	Etech		1							- 45					-		ANA	LYS	5 R	(EQ	UE	1		
Project Manager:	Kit prit	charo	/					P.	0. #	20	4~4447	-090:			T	1	T	T	T	T				
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City:		State:	Zip	):				A	ttn:							1						`		
Phone #:		Fax #:						A	ddre	BS:							1				.		٠.	
	-4447-000							C	ity:															
Project Name: Pa	ennzoil Fe	ed #2						St	tate:		Zip:				1		1							
Project Location:	Lea count	LY						P	hone	#:									1					
Sampler Name:	Terry 056	910						F	ax #:					5				1 .						
Lab I.D.	Sample I.I		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	AIEK	TRIX	SLUDGE	ü	ICE/COOL	DATE	TIME	- BTex	ahlorida										
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enalyses. All claims including the service, in no event shall Cardina affiliates or successors arising ou	mages. Cardinal's liability and clien see for negligence and any other ca at be liable for incidental or consequ at of or related to the performance o	uee whatsoever shall uental damages, inclu	be deems sing with: by Cardin	ed walv out limits al, regar	ed unless ation, but atless of	s made in siness in whether	erruption such cla	and rec ns, loss aim is b	ceived b of use, ased up	y Cardin or loss o on any of	il within 30 days at profits incurred by the above stated in	ter completion of client, its subside easons or other	f the application for the second seco							_				
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October 30, 2013

KIT PRICHARD

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: PENZOIL FED #2

Enclosed are the results of analyses for samples received by the laboratory on 10/29/13 10:15.

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/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

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.

Celeg 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



ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

(432) 563-2213

Fax To:

10/28/2013

Received: Reported: 10/29/2013 10/30/2013 Sampling Date: Sampling Type:

Project Name:

RTFY 8021R

PENZOIL FED #2

Sampling Condition:

\*\* (See Notes)

Project Number: Project Location: 204-4447-000 LEA COUNTY, NM Sample Received By:

Jodi Henson

#### Sample ID: SP 1 BOTTOM 4.5' (H302613-01)

B1EX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/28/2013	ND	2.16	108	2.00	2.91	
Toluene*	<0.050	0.050	10/28/2013	ND	2.20	110	2.00	2.57	
Ethylbenzene*	<0.050	0.050	10/28/2013	ND	2.21	110	2.00	2.96	
Total Xylenes*	<0.150	0.150	10/28/2013	ND	6.39	106	6.00	3.57	
Total BTEX	<0.300	0.300	10/28/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/29/2013	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/29/2013	ND	210	105	200	1.98	
DRO >C10-C28	<10.0	10.0	10/29/2013	ND	202	101	200	1.03	
Surrogate: 1-Chlorooctane	108 9	6 65.2-140	9						
Surrogate: 1-Chlorooctadecane	109 9	6 63.6-15	4						

Analyzed By: MC

# Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To:

(432) 563-2213

Received:

10/29/2013

Reported:

10/30/2013

Project Name: Project Number: PENZOIL FED #2 204-4447-000

Project Location:

LEA COUNTY, NM

Sampling Date:

10/29/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: \*\* (See Notes)

Jodi Henson

## Sample ID: SP 3 BOTTOM 7' (H302613-02)

						d By: MS	Analyze	kg	mg/l	BTEX 8021B
RPD Qual	RPD	С	True Value QC	% Recovery	BS	Method Blank	Analyzed	Reporting Limit	Result	Analyte
0.429	0.429		2.00	101	2.02	ND	10/30/2013	0.200	<0.200	Benzene*
0.174	0.174		2.00	100	2.00	ND	10/30/2013	0.200	1.89	Toluene*
0.532	0.532		2.00	99.8	2.00	ND	10/30/2013	0.200	1.20	Ethylbenzene*
0.0606	0.0606	(	6.00	97.5	5.85	ND	10/30/2013	0.600	13.8	Total Xylenes*
						ND	10/30/2013	1.20	16.9	Total BTEX
								89.4-126	168 %	Surrogate: 4-Bromofluorobenzene (PIL
						d By: AP	Analyze	cg	mg/l	Chloride, SM4500CI-B
RPD Qual	RPD	С	True Value QC	% Recovery	BS	Method Blank	Analyzed	Reporting Limit	Result	Analyte
3.92	3.92		400	104	416	ND	10/29/2013	16.0	176	Chloride
_		c				d By: AP  Method Blank	Analyzed Analyzed	89.4-126 kg Reporting Limit	168 % mg/l	Total BTEX  Surrogate: 4-Bromofluorobenzene (PID Chloride, SM4500CI-B  Analyte  Chloride

### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To:

(432) 563-2213

Received:

10/29/2013

10/30/2013

Sampling Date:

10/29/2013

Reported:

Sampling Type:

Soil

Project Name:

PENZOIL FED #2

Sampling Condition:

\*\* (See Notes)

Project Number:

204-4447-000

Sample Received By:

Jodi Henson

Project Location:

LEA COUNTY, NM

#### Sample ID: SP 3 N. WALL 3.5' (H302613-03)

BTEX 8021B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/30/2013	ND	2.02	101	2.00	0.429	
Toluene*	1.09	0.200	10/30/2013	ND	2.00	100	2.00	0.174	
Ethylbenzene*	0.832	0.200	10/30/2013	ND	2.00	99.8	2.00	0.532	
Total Xylenes*	10.3	0.600	10/30/2013	ND	5.85	97.5	6.00	0.0606	
Total BTEX	12.2	1.20	10/30/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	165	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/29/2013	ND	416	104	400	3.92	

\*=Accredited Analyte Cardinal Laboratories

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Celey D. Keine



ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To:

(432) 563-2213

Received:

**STEX 8021B** 

10/29/2013

Reported:

10/30/2013

Project Name:

PENZOIL FED #2

Project Number: Project Location:

LEA COUNTY, NM

mg/kg

204-4447-000

Sampling Date:

10/29/2013

Sampling Type:

Soil

Sampling Condition:

\*\* (See Notes)

Sample Received By:

Jodi Henson

#### Sample ID: SP 3 S. WALL 3.5' (H302613-04)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD 3.92	Qualifier
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Surrogate: 4-Bromofluorobenzene (PIL	110	% 89.4-12	6						
Total BTEX	<0.300	0.300	10/30/2013	ND					
Total Xylenes*	<0.150	0.150	10/30/2013	ND	5.85	97.5	6.00	0.0606	
Ethylbenzene*	<0.050	0.050	10/30/2013	ND	2.00	99.8	2.00	0.532	
Toluene*	<0.050	0.050	10/30/2013	ND	2.00	100	2.00	0.174	
Benzene*	<0.050	0.050	10/30/2013	ND	2.02	101	2.00	0.429	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Analyzed By: MS

#### **Cardinal Laboratories**

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ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To:

(432) 563-2213

Received:

10/29/2013

Reported:

10/30/2013

Project Name:

PENZOIL FED #2 204-4447-000

Project Number: Project Location:

LEA COUNTY, NM

Sampling Date:

10/29/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: \*\* (See Notes)

Jodi Henson

## Sample ID: SP 3 W. WALL 3.5' (H302613-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/30/2013	ND	2.02	101	2.00	0.429	
Toluene*	<0.200	0.200	10/30/2013	ND	2.00	100	2.00	0.174	
Ethylbenzene*	<0.200	0.200	10/30/2013	ND	2.00	99.8	2.00	0.532	
Total Xylenes*	<0.600	0.600	10/30/2013	ND	5.85	97.5	6.00	0.0606	
Total BTEX	<1.20	1.20	10/30/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/29/2013	ND	416	104	400	3.92	

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\*=Accredited Analyte

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ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To:

(432) 563-2213

Received:

10/29/2013

Reported:

10/30/2013

Project Name: Project Number: PENZOIL FED #2 204-4447-000

Project Location:

LEA COUNTY, NM

Sampling Date:

10/29/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: \*\* (See Notes)

Jodi Henson

## Sample ID: SP 3 E. WALL 3.5' (H302613-06)

<0.050 <0.050	Reporting Limit 0.050 0.050	Analyzed 10/30/2013	Method Blank ND	BS 2.02	% Recovery	True Value QC	RPD	Qualifier
<0.050			ND	2.02	101	2.00		
	0.050	10/00/0010			101	2.00	0.429	
-0.0F0		10/30/2013	ND	2.00	100	2.00	0.174	
<0.050	0.050	10/30/2013	ND	2.00	99.8	2.00	0.532	
<0.150	0.150	10/30/2013	ND	5.85	97.5	6.00	0.0606	
<0.300	0.300	10/30/2013	ND					
105 %	6 89.4-120	5						
mg/	kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
32.0	16.0	10/29/2013	ND	416	104	400	3.92	
V V	105 9 mg/	(0.150 0.150 (0.300 0.300 (0.300 0.300 (0.300 0.300 (0.300 0.300 (0.300 0.300 (0.300 0.300 (0.300 0.300	80,150 0.150 10/30/2013 80,300 0,300 10/30/2013 105 % 89.4-126 mg/kg Analyzed	80,150 0.150 10/30/2013 ND 80,300 0.300 10/30/2013 ND 105 % 89.4-126 mg/kg Analyzed By: AP Result Reporting Limit Analyzed Method Blank	60,150 0.150 10/30/2013 ND 5.85 60,300 0.300 10/30/2013 ND 105 % 89.4-126 mg/kg Analyzed By: AP  Result Reporting Limit Analyzed Method Blank BS	20,150 0.150 10/30/2013 ND 5.85 97.5 20,300 0,300 10/30/2013 ND 10/5 % 89.4-126 mg/kg Analyzed By: AP  Result Reporting Limit Analyzed Method Blank BS % Recovery	20,150 0.150 10/30/2013 ND 5.85 97.5 6.00 20,300 0,300 10/30/2013 ND 105 % 89.4-126 mg/kg Analyzed By: AP  Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC	20,150 0.150 10/30/2013 ND 5.85 97.5 6.00 0.0606 20,300 0.300 10/30/2013 ND 105 % 89.4-126 mg/kg Analyzed By: AP  Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To:

(432) 563-2213

Received:

10/29/2013

Reported:

10/30/2013

Project Name:

PENZOIL FED #2 204-4447-000

Project Number: Project Location:

LEA COUNTY, NM

Sampling Date:

10/29/2013

Sampling Type:

Sampling Condition:

\*\* (See Notes)

Sample Received By: Jodi Henson

# Sample ID: SP 3 20' (H302613-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/30/2013	ND	2.02	101	2.00	0.429	
Toluene*	<0.050	0.050	10/30/2013	ND	2,00	100	2.00	0.174	
Ethylbenzene*	<0.050	0.050	10/30/2013	ND	2.00	99.8	2.00	0.532	
Total Xylenes*	<0.150	0.150	10/30/2013	ND	5.85	97.5	6.00	0.0606	
Total BTEX	<0.300	0.300	10/30/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/29/2013	ND	416	104	400	3.92	

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#### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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

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Celey D. Keine



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: E4	ech	010,000 241	:					,				311	400							·A	NAI	YSI	SR	EQ	UES	T	-		
Project Manager:	Kit prit	chard							P.(	0. #:	. 2	294	-4447	-00	0	:			T					T					
Address:								1.	Co	mpa	any	:																	
City:		State:	Zip	:		. •			At	tn:							5								.				
Phone #:		Fax #:						•	Ad	ldre	<b>55</b> :	-									. !								
Project #: 2 04 -									CI	ty:																			
Project Name: Pe	nazoil F.	ed #2	,						St	ate:			Zip:		- 15		4												
Project Location:	ea count	Y							Ph	one	#:						~												
Sampler Name:	ery 0560	11							Fa	x #:							0												
Lab I.D.	Sample I.I		(G)RAB OR (C)OMP.	#CONTAINERS	GROUNDWATER	TEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:		IER:	SAMPL		VIE	BTEX	Chlorid	101	16.2										A
	10-3	451					j	4			1		10-29	8:	0	V	J	V											
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4 3p	3 5. wall	3.5	H	-	H		1	+	+	-	7	$\vdash$	-	1		7	7	+	+	+			+-	+					-
3 30	3 W. wall	3,5	-	-	$\vdash$		J	+	+		7			1	-	Y	7	+	+	+	-		+	+					+-
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PLEASE NOTE: Liability and Damages analyses. All claims including those for service. In no event shall Cardinal be li affiliates or successors arising out of or	negligence and any other ca lable for incidental or consequ	use whatsoover shall be uental damages, including if services hereunder by C	witho ardina	ed wah ut Omit al, rega	red un tation, ardiese	busines of whet	ide in s	writing a muptions	nd rec	efved b	or los	rdinal w	fish 30 days aff offits incurred by	er comple dient, its easons or	tion of I subsidi otherw	he applica aries, iec,													
Relinquished By:		Date: 10-29-13	R	egel	ved	By:			2					Fax	Resu			es				Phon Fax#							
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Delivered By: (Circ Sampler - UPS - Bus † Cardinal canno	- Other:			.21		Coo	Yes No	Cond	es lo		1		EA BY:																



October 28, 2013

KIT PRICHARD

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: PENZOIL FED #2

Enclosed are the results of analyses for samples received by the laboratory on 10/25/13 15:30.

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">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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.

Celeg 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



ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received: Reported: 10/25/2013

1

10/28/2013 PENZOIL FED #2

Project Name: Project Number:

204-4447-000

Project Location:

LEA COUNTY, NM

Sampling Date:

10/25/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: \*\* (See Notes)

Jodi Henson

# Sample ID: SP 1 BOTTOM 2' (H302601-01)

TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	156	10.0	10/28/2013	ND	184	91.8	200	7.64	
DRO >C10-C28	6350	10.0	10/28/2013	ND	175	87.6	200	10.2	
Surrogate: 1-Chlorooctane	134 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	209 9	% 63.6-15	4						

#### Sample ID: SP 2 BOTTOM 2' (H302601-02)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	112	10.0	10/28/2013	ND	184	91.8	200	7.64	
DRO >C10-C28	1160	10.0	10/28/2013	ND	175	87.6	200	10.2	
Surrogate: 1-Chlorooctane	111	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	112	% 63.6-15	4						

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Celey D. Keene



ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received:

10/25/2013

Reported: Project Name: 10/28/2013 PENZOIL FED #2

Project Number:

204-4447-000

Project Location:

LEA COUNTY, NM

Sampling Date:

10/25/2013

Sampling Type:

Soil

Sampling Condition:

\*\* (See Notes)

Sample Received By:

Jodi Henson

#### Sample ID: SP 3 BOTTOM 7' (H302601-03)

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	6550	10.0	10/28/2013	ND	184	91.8	200	7.64	
DRO >C10-C28	7750	10.0	10/28/2013	ND	175	87.6	200	10.2	
Surrogate: 1-Chlorooctane	159	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	168	% 63.6-15	4						

#### Sample ID: SP 3 N. WALL 3.5' (H302601-04)

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1610	10.0	10/28/2013	ND	184	91.8	200	7.64	
DRO >C10-C28	2320	10.0	10/28/2013	ND	175	87.6	200	10.2	
Surrogate: 1-Chlorooctane	181	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	116	% 63.6-15	4						

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Celey D. Keine



ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To:

(432) 563-2213

Received:

10/25/2013

10/28/2013

Sampling Date: Sampling Type: 10/25/2013

Reported: Project Name:

PENZOIL FED #2

Soil \*\* (See Notes)

Project Number:

Sampling Condition: Sample Received By:

Jodi Henson

204-4447-000

Project Location: LEA COUNTY, NM

#### Sample ID: SP 3 S. WALL 3.5' (H302601-05)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/28/2013	ND	184	91.8	200	7.64	
DRO >C10-C28	539	10.0	10/28/2013	ND	175	87.6	200	10.2	
Surrogate: 1-Chlorooctane	96.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	130	% 63.6-15	4						

## Sample ID: SP 3 E. WALL 3.5' (H302601-06)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/28/2013	ND	184	91.8	200	7.64	
DRO >C10-C28	<10.0	10.0	10/28/2013	ND	175	87.6	200	10.2	
Surrogate: 1-Chlorooctane	95.3	% 65.2-14	0				-		
Surrogate: 1-Chlorooctadecane	100	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keens



ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To:

(432) 563-2213

Received: Reported: 10/25/2013

10/28/2013

Project Name: Project Number: PENZOIL FED #2 204-4447-000

Project Location:

LEA COUNTY, NM

Sampling Date:

10/25/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: \*\* (See Notes)

Jodi Henson

# Sample ID: SP 3 W. WALL 3.5' (H302601-07)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/28/2013	ND	184	91.8	200	7.64	
DRO >C10-C28	<10.0	10.0	10/28/2013	ND	175	87.6	200	10.2	
Surrogate: 1-Chlorooctane	99.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	105	% 63.6-15	4						

#### Sample ID: SP 3 20' (H302601-08)

TPH 8015M	mg/	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/28/2013	ND	184	91.8	200	7.64	
DRO >C10-C28	<10.0	10.0	10/28/2013	ND	175	87.6	200	10.2	
Surrogate: 1-Chlorooctane	93.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	98.0	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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Celey & Keene



#### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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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Celey D. Keine



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: Etech	11/4410	ANALYSIS REQUEST
Project Manager: Kit Pritchard	P.O. #: 204-4447-006	
Address:	Company:	
City: State: Zip:	Attn:	
Phone #: Fax #:	Address:	
Project #: 294-4447-000 Project Owner:	City:	
Project Name: Pennzoil Fed #2	State: Zip:	
Project Location: Lea county	Phone #:	
Sampler Name: Terry Osborn	Fax #:	
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING	1
(C)OMP ERS ATER		
lab D Gample I D   C Z 3 4	ا ا	
Lab i.b. Sample i.b.	BAS (BAS)	MIIIIII
# CONTAINERS GROUNDWATER SOIL OIL	SLUDGE OTHER: ACIDIBASE ICE / COOL OTHER:  THER:	
1 Spl Bottom 2'	1 10-25	
2502 Rottom?		
3503 Bottom 7'		
4 503 N. vall 35'		
5 5 P 3 5, Wall 3, 5'		
6 Sp3 E. Wall 3.51		
7 503 W. WALL 3.5		
8 3 20		
PLEASE NOTE: Liability and Damages. Cardinat's liability and client's exclusive remedy for any claim arising whether based in or malyses. All claims including those for negligence and any other cause whatspower shall be deemed waived unless made in writt		
service. In no event shall Cardinel be liable for incidental or consequental damages, including without limitation, business interrup stillates or appossors grising out of or related to the performance of services hersunder by Cardinal, rependess of whether such	ons, loss of use, or loss of profits incurred by client, its subsid	Maries,
Relinquished By: Date: Received By:	Phone Ro	esult: 🗆 Yes 🗆 No   Add'l Phone #:
andi a	REMARK REMARK	
Relinquished By: Date: Received By:		
Time:		RUSH!!
Delivered By: (Circle One) Sample Co	dition CHECKED BY:	Kusti
	dition CHECKED BY:	
Sampler - UPS - Bus - Other:	No DIT	