

APPROVED



HOBBS OCD

MAR 31 2014

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REVIEWED

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

Remediation Summary & Modified Corrective Action Report

General Information

This section provides general information about the operator and the site where the spill occurred.

Date: March 26, 2014

Client: Nearburg Producing

Site Name: Pennzoil Fed #2

County: Lea

State: NM

Site Coordinates Latitude: 32.676446
Longitude: -103.610094

Property Owner: N/A

State Report No.:

Release Description and Assessment

The information below is related to the spill (Date, Type, Cause and Quantity) and the area impacted.

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:

Summary of Remediation Sampling Analytical Results Total Petroleum Hydrocarbons - [TPH (mg/kg)], BTEX, & Chlorides [Cl (mg/kg)]										
Sample #	Depth (ft)	Date	TPH C6-C10	TPH C10-C28	TPH Total	Benzene	Toluene	Ethylbenzene	Xylenes	Cl
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

* 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.

MAR 31 2014

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.



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 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

MAR 31 2014

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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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Nearburg Producing Company	Contact: Tim Green
Address: 3300 N. A Street, Suite 120, Midland, TX 79705	Telephone No.: 432-818-2940
Facility Name: Pennzoil Federal #2	Facility Type: Oil Well
Surface Owner: Bureau of Land Management	Mineral Owner: Bureau of Land Management
API No.: 30-025-26499	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	12	19S	33E	1980	North	660	East	Lea

Latitude: Longitude:

NATURE OF RELEASE

Type of Release: Light Oil	Volume of Release: 172	Volume Recovered: 0
Source of Release: Tank	Date and Hour of Occurrence: 07/30/2013	Date and Hour of Discovery:
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? E.L. Gonzales NMOCD & Mike Burton BLM	
By Whom? Roger King	Date and Hour 07/30/13 1530 hrs	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*:

Describe Cause of Problem and Remedial Action Taken.*: Release was caused by a rusted-out hole in the bottom of the tank. Corrective action plan pending.

Describe Area Affected and Cleanup Action Taken.*: A corrective action plan was developed, submitted and approved by NMOCD and BLM. A summary report on the corrective actions taken is attached.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Tim Green	Approved by District Supervisor: 	
Title: Marketing & Production Services Manager	Approval Date: 8/18/2016	Expiration Date: " "
E-mail Address: tgreen@nearburg.com	Conditions of Approval: " "	Attached <input type="checkbox"/>
Date: 03/26/14	Phone: 432-818-2940	IRP-4365

* Attach Additional Sheets If Necessary

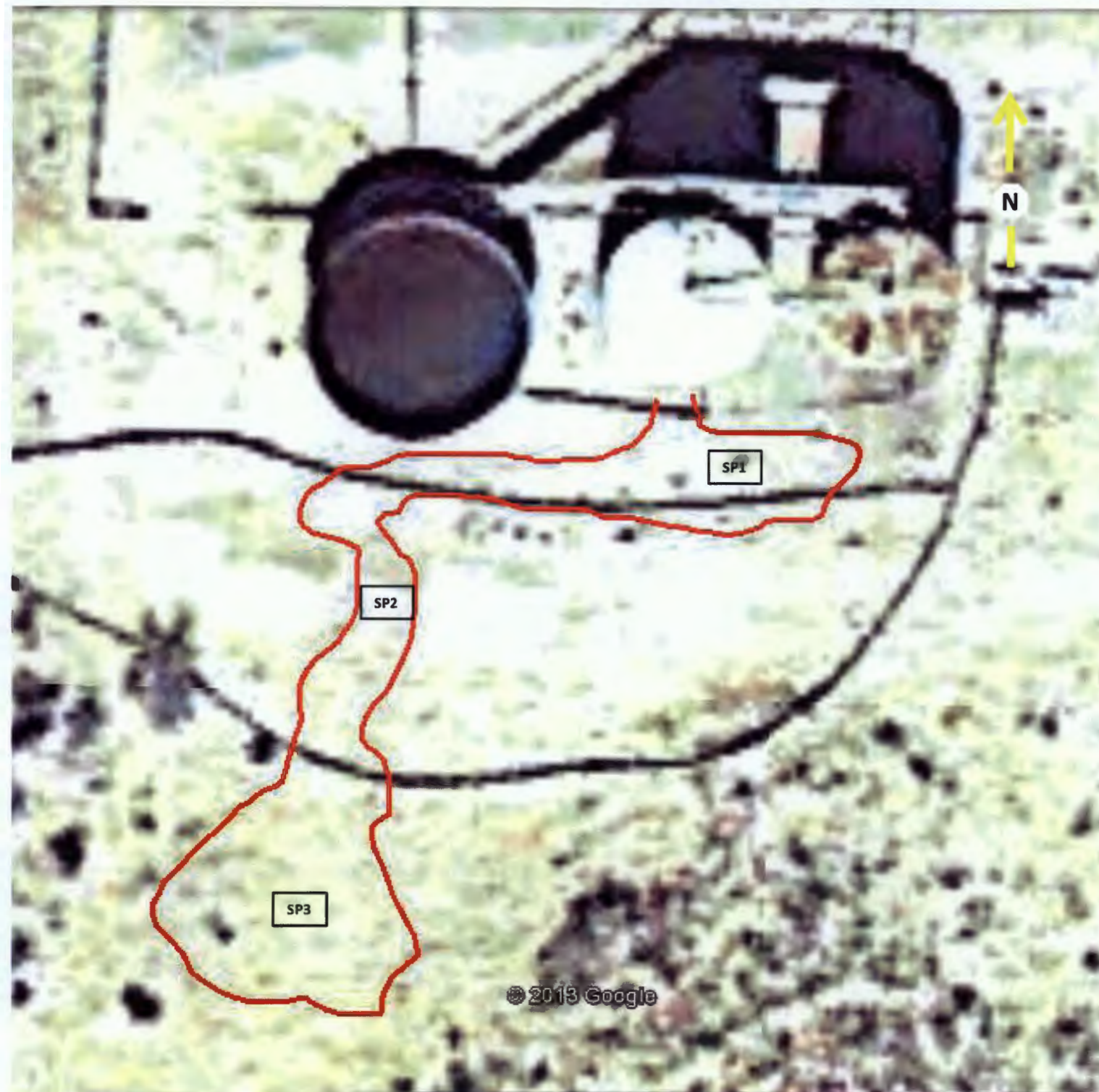
nJXK1620948770
pJXK1620948824

Site Diagram

Reclamation Plan Overview

1. 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.
2. 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.
3. 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.
4. If hydrocarbons are left in place inside or outside of the containment, a liner will be installed prior to backfilling.
5. 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.
6. Off-pad areas are to be seeded by broadcast or seed drill.
7. Tank battery containment will be repaired and areas fenced until vegetation takes hold.

Nearburg Producing
Pennzoil Fed #2
Reclamation Plan



Analytical Results



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

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Sampling Date: 03/06/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

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

BTX 8021B			mg/kg		Analyzed 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 BTX	<0.300	0.300	03/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed 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		Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.7 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

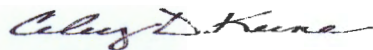
Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by 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

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 4 of 4

[illegible]

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-3323.

#54



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

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
KIT PRICHARD
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received: 02/13/2014
Reported: 02/14/2014
Project Name: PENZOIL FED #2
Project Number: 204-4447-000
Project Location: LEA COUNTY, NM

Sampling Date: 02/13/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: BLEND PILE (H400443-01)

BTEX 8021B		mg/kg		Analyzed 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 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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

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Celey D. Keene, Lab Director/Quality Manager


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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>E-Tech</u>				BILL TO				ANALYSIS REQUEST																																	
Project Manager: <u>K. Prichard</u>				P.O. #: <u>204-4447-000</u>																																					
Address:				Company:																																					
City:		State:		Zip:		Attn:																																			
Phone #:		Fax #:		Address:																																					
Project #: <u>204-4447-000</u>				Project Owner:																City:																					
Project Name: <u>Pennzoil Feed #2</u>				State:																Zip:																					
Project Location: <u>Lea Co.</u>				Phone #:																																					
Sampler Name: <u>Abe Eriksen</u>				Fax #:																																					
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING		<u>Chloride</u> <u>BTex</u>																													
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER														SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME	
<u>H400443</u>		<u>Blend Pile</u>																						<u>X</u>								<u>X</u>		<u>X</u>		<u>2-13-14</u>		<u>16:00</u>			

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>[Signature]</u>		Date: <u>2-13-14</u>		Received By: <u>Jodi Henson</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: <u>16:30</u>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS: <u>RUSH!!</u>			
		Time:							
Delivered By: (Circle One)				Sample Condition		CHECKED BY: <u>[Signature]</u>			
Sampler - UPS - Bus - Other:				Cool <input type="checkbox"/> Intact <input type="checkbox"/>					
				Yes <input type="checkbox"/> No <input type="checkbox"/>					

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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

February 12, 2014

KIT PRICHARD

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: PENZOIL FED #2

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

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Sincerely,

Caley D. Keene

Lab Director/Quality Manager

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
KIT PRICHARD
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received: 02/11/2014
Reported: 02/12/2014
Project Name: PENZOIL FED #2
Project Number: 204-4447-000
Project Location: LEA COUNTY, NM

Sampling Date: 02/11/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Kathy Perez

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

Chloride, SM4500Cl-B		mg/kg	Analyzed 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 remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analytes. 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 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. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by 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, Lab Director/Quality Manager



Page 4 of 4

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

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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: 204-4447-000
Project Location: LEA COUNTY, NM

Sampling Date: 12/19/2013
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

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

BTEX 8021B		mg/kg		Analyzed 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 (PIE) 99.7 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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

Surrogate: 1-Chlorooctadecane 125 % 63.6-154

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 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 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. Keene, Lab Director/Quality Manager

Analytical Results For:

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: 204-4447-000
Project Location: LEA COUNTY, NM

Sampling Date: 12/19/2013
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

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

BTEX 8021B		mg/kg		Analyzed 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 (PIE) 98.8 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 119 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

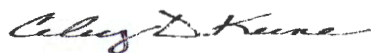
Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by 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, Lab Director/Quality Manager



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Relinquished By:		Date:	Received By:	Phone Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		12-19-13		Fax Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Time:		REMARKS:		
		3:30				
Delivered By: (Circle One)			Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:			Cool Intact	(Initials)		
			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

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#54



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

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
KIT PRICHARD
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received: 11/14/2013
Reported: 11/15/2013
Project Name: PENZOIL FED #2
Project Number: 204-4447-000
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	

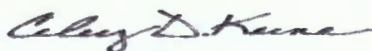
Surrogate: 1-Chlorooctane 115 % 65.2-140

Surrogate: 1-Chlorooctadecane 138 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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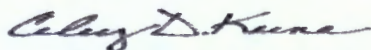
Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by 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, Lab Director/Quality Manager



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

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 ETECH Environmental & Safety Solutions, Inc.
 KIT PRICHARD
 P. O. BOX 8469
 MIDLAND TX, 79708
 Fax To: (432) 563-2213

 Received: 10/31/2013
 Reported: 11/01/2013
 Project Name: PENZOIL FED #2
 Project Number: 204-4447-000
 Project Location: LEA COUNTY, NM

 Sampling Date: 10/31/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: 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 % 89.4-126

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 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager


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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

Company Name: Eteeh				BILL TO				ANALYSIS REQUEST																																	
Project Manager: Kit Pritchard				P.O. #: 204-447-000																																					
Address:				Company:																																					
City:		State:		Zip:		Attn:																																			
Phone #:		Fax #:		Address:		City:																																			
Project #: 204-447-000				Project Owner:																																					
Project Name: pennzoil Fed #2				State: Zip:																																					
Project Location: Lea County				Phone #:																																					
Sampler Name: Terry Osborn				Fax #:																																					
FOR LAB USE ONLY				MATRIX				PRESERV.		SAMPLING																															
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME													
H3021004		1 Sp3 N. wall 3.5'										✓										✓				10-31-13		2:30		TPH BTEX											

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Sampling Date: 10/29/2013
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP 2 BOTTOM 2' (H302623-01)
BTEX 80218

mg/kg

Analyzed 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 (PIB) 104 % 89.4-126

Chloride, SM4500Cl-B

mg/kg

Analyzed 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. Keene, Lab Director/Quality Manager

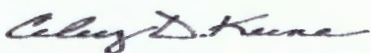
Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by 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

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Celey D. Keene, Lab Director/Quality Manager



Page 4 of 4

[illegible]

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

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Sampling Date: 10/28/2013
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

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

BTEX 8021B		mg/kg		Analyzed 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 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/29/2013	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Sampling Date: 10/29/2013
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

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

BTX 8021B		mg/kg		Analyzed 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*	1.89	0.200	10/30/2013	ND	2.00	100	2.00	0.174	
Ethylbenzene*	1.20	0.200	10/30/2013	ND	2.00	99.8	2.00	0.532	
Total Xylenes*	13.8	0.600	10/30/2013	ND	5.85	97.5	6.00	0.0606	
Total BTX	16.9	1.20	10/30/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 168 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/29/2013	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Sampling Date: 10/29/2013
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

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

BTX 8021B		mg/kg		Analyzed 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 BTX	12.2	1.20	10/30/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 165 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

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)

BTEX 8021B		mg/kg		Analyzed 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 (PIE) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Sampling Date: 10/29/2013
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP 3 W. WALL 3.5' (H302613-05)**BTEX 8021B****mg/kg****Analyzed 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 (PIC

106 %

89.4-126

Chloride, SM4500Cl-B**mg/kg****Analyzed 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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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Sampling Date: 10/29/2013
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP 3 E. WALL 3.5' (H302613-06)**BTEX 8021B****mg/kg****Analyzed 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 % 89.4-126

Chloride, SM4500Cl-B**mg/kg****Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/29/2013	ND	416	104	400	3.92	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Sampling Date: 10/29/2013
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

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

BTEX 8021B			mg/kg		Analyzed 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 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed 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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Celey D. Keene, Lab Director/Quality Manager

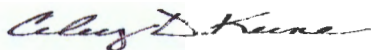
Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Etech</u>		BILL TO		ANALYSIS REQUEST																							
Project Manager: <u>Kit Pritchard</u>		P.O. #: <u>294-4447-000</u>																									
Address:		Company:																									
City: State: Zip:		Attn:																									
Phone #: Fax #:		Address:																									
Project #: <u>204-4447-000</u> Project Owner:		City:																									
Project Name: <u>Pennzoil Fed #2</u>		State: Zip:																									
Project Location: <u>Lea County</u>		Phone #:																									
Sampler Name: <u>Terry Osborn</u>		Fax #:																									
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV		SAMPLING																	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:															
<u>H30263</u>	<u>SP1 Bottom 45'</u>												<u>10/28</u>	TIME	<u>BTEX</u>	<u>Chlorides</u>	<u>TPH</u>										
	SP1 Bottom 45'												<u>10-29</u>	<u>8:30</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>										
	SP2 Bottom 7'														<u>✓</u>	<u>✓</u>	<u>✓</u>										
	<u>2 SP3 Bottom 7'</u>														<u>✓</u>	<u>✓</u>	<u>✓</u>										
	<u>3 SP3 N. wall 3.5'</u>														<u>✓</u>	<u>✓</u>	<u>✓</u>										
	<u>4 SP3 S. wall 3.5'</u>														<u>✓</u>	<u>✓</u>	<u>✓</u>										
	<u>5 SP3 W. wall 3.5'</u>														<u>✓</u>	<u>✓</u>	<u>✓</u>										
	<u>6 SP3 E. wall 3.5'</u>														<u>✓</u>	<u>✓</u>	<u>✓</u>										
	<u>7 SP3 20'</u>													<u>9:00</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>										

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>[Signature]</u>	Date: <u>10-20-13</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>10:15</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>[Signature]</u>		

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2626

#54



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

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

Caley D. Keene

Lab Director/Quality Manager

Analytical Results For:

 ETECH Environmental & Safety Solutions, Inc.
 KIT PRICHARD
 P. O. BOX 8469
 MIDLAND TX, 79708
 Fax To: (432) 563-2213

 Received: 10/25/2013
 Reported: 10/28/2013
 Project Name: 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 1 BOTTOM 2' (H302601-01)

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	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 209 % 63.6-154

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 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
KIT PRICHARD
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received: 10/25/2013
Reported: 10/28/2013
Project Name: 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	
<hr/>									
Surrogate: 1-Chlorooctane	159 %	65.2-140							
Surrogate: 1-Chlorooctadecane	168 %	63.6-154							

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	
<hr/>									
Surrogate: 1-Chlorooctane	181 %	65.2-140							
Surrogate: 1-Chlorooctadecane	116 %	63.6-154							

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
KIT PRICHARD
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received: 10/25/2013
Reported: 10/28/2013
Project Name: 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 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	
<hr/>									
Surrogate: 1-Chlorooctane	96.0 %	65.2-140							
Surrogate: 1-Chlorooctadecane	130 %	63.6-154							

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	
<hr/>									
Surrogate: 1-Chlorooctane	95.3 %	65.2-140							
Surrogate: 1-Chlorooctadecane	100 %	63.6-154							

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Céley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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KIT PRICHARD
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received: 10/25/2013
Reported: 10/28/2013
Project Name: 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 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	
<hr/>									
Surrogate: 1-Chlorooctane	99.4 %	65.2-140							
Surrogate: 1-Chlorooctadecane	105 %	63.6-154							

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

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	
<hr/>									
Surrogate: 1-Chlorooctane	93.6 %	65.2-140							
Surrogate: 1-Chlorooctadecane	98.0 %	63.6-154							

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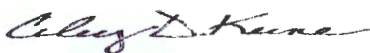
Notes and Definitions

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 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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech		BILL TO		ANALYSIS REQUEST																							
Project Manager: Kit Pritchard		P.O. #: 204-4447-000																									
Address:		Company:																									
City: State: Zip:		Attn:																									
Phone #: Fax #:		Address:																									
Project #: 204-4447-000 Project Owner:		City:																									
Project Name: Pennzoil Fed #2		State: Zip:																									
Project Location: Lea county		Phone #:																									
Sampler Name: Terry Osborn		Fax #:																									
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING															
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME												
	H3021601																										
	1	SP1 Bottom 2'												10-25													
	2	SP2 Bottom 2'																									
	3	SP3 Bottom 7'																									
	4	SP3 N. wall 3.5'																									
	5	SP3 S. wall 3.5'																									
	6	SP3 E. wall 3.5'																									
	7	SP3 W. wall 3.5'																									
	8	SP3 20'																									

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Relinquished By: <i>Terry Osborn</i>	Date: 10-25-13 Time: 3:30	Received By: <i>Jodi Benson</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 18.20			Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: <i>JA</i>

REMARKS: RUSH!!

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

#54