

JAN 30 2014

1RP-12-13-2999  
XTO Energy, Inc., Grimes Pit #1  
January 30, 2014

RECEIVED

## **INTRODUCTION**

This summary is submitted to the New Mexico Oil Conservation Division (OCD) District 1 in Hobbs, New Mexico, on behalf of XTO Energy, Inc. (XTO), a subsidiary of ExxonMobil, for the investigation and closure of an unlined pit (Grimes Pit #1) that was used in conjunction with shallow wells and separation equipment by another operator, Windmill Oil Company, to recover crude oil from shallow groundwater. The pit is located in Unit G (SW/4, NE/4), Section 30, Township 18 South, Range 38 East, in Lea County, New Mexico. The geodetic position is north 32° 43' 08.19" and west 103° 11' 11.94". Figure 1 presents a topographic map. Figure 2 presents an aerial photograph.

## **BACKGROUND**

The U.S. Bureau of Land Management (BLM), as mineral owner, was unable to locate the former operator, believed to be Windmill Oil Company, to restore the area, including plugging wells, removing equipment (i.e., tanks, vessels and piping) and closing the pit. The site reverted back to ExxonMobil as a former oil and gas mineral lessee.

On October 15, 2013, XTO submitted a closure plan meeting the requirements of 19.15.17.13(C) NMAC to the OCD in Santa Fe, New Mexico. The closure plan was approved on October 22, 2013. On December 1, 2013, after providing notification to the landowner, Watson Construction, Inc., under supervision from Larson & Associates, Inc. (LAI) removed BS&W and hydrocarbon contaminated material from the pit. The materials were disposed at Sundance Services located east of Eunice, New Mexico.

On December 2, 2013, LAI personnel collected a 5 part composite sample from the bottom of the pit. The sample was submitted under preservation and chain of custody to Permian Basin Environmental Lab (PBELAB) located in Midland, Texas. The sample was analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX) by method SW-846-8021B, total petroleum hydrocarbons (TPH), including, diesel (DRO), gasoline (GRO) and oil (ORO) range organics, by method SW-846-8015M and chloride by method E300. Table 1 presents the analytical data summary.

On December 18, 2013, the laboratory data summary was transmitted to the OCD in Santa Fe, New Mexico which requested that XTO to notify the OCD District 1 due to TPH exceeding the standard under 19.15.17.13(C).

On December 23, 2013, LAI personnel met with Mr. Geoffrey Leking, OCD District 1, to discuss the sample results and path forward. Mr. Leking requested XTO to submit an initial C-141 (Release Notification and Corrective Action) and delineate the extent of the TPH. On December 31, 2013, XTO submitted the initial C-141. The OCD District 1 assigned the site remediation action project number 1RP-12-13-2999.

approved 2/10/14  
*Geoffrey Leking*  
Environmental Specialist  
NMOCB - DIST 1  
2/10/14

FEB 10 2014

## **INVESTIGATION**

On January 8 and 9, 2013 , Scarborough Drilling, Inc. (Scarborough) used an air rotary rig and jam tube sampler to collect soil samples at 5 locations (1-1 through 1-5) in the bottom and each direction (north, south, east and west) from the center of the pit. A sample was collected about every 5 feet to 30 feet and about every 10 feet to about 50 feet below ground surface (bgs). Groundwater was determined to occur at about 60 feet bgs. The samples were collected in 4 ounce glass jars that were preserved and delivered under chain of custody to Cardinal Laboratory located in Hobbs, New Mexico. The samples were analyzed for TPH, including DRO, GRO and ORO, by method SW-846-8015M. Duplicate samples were collected in 8 ounce glass jars for headspace analysis. The headspace samples were sealed with aluminum foil and warmed on the dashboard of the vehicle before measuring the organic vapor content with a calibrated photoionization detector (PID). The sample from each boring with the highest PID reading over 100 parts per million (ppm) was analyzed for BTEX by method SW-846-8021B. Table 2 presents the laboratory analytical data summary. Appendix B presents the laboratory reports.

Referring to Table 2, benzene and BTEX were below the OCD recommended remediation action level (RRAL) of 10 and 50 milligrams per kilogram (mg/Kg), respectively, in samples from borings 1-1 through 1-5. The TPH was delineated to the vertical and lateral limits of the borings.

## **REMEDIATION PLAN**

XTO proposes to excavate soil to approximately 7 feet bgs. A liner of at least 20 mils will be placed in the bottom of the excavation. The liner will be covered with clean soil and the excavation closed according to the reclamation plan approved by OCD in Santa Fe, on October 22, 2013.

## **TABLES**

**Table 2**  
**Delineation Sample Analytical Data Summary**  
**XTO Energy, Inc., Grimes Pit #1**  
**Lea County, New Mexico**  
**1RP-12-13-2999**

Boring Number	Sample Depth	Sampling Date	Location	PID	Benzene	BTEX	TPH (C6 - C10)	TPH (>C10 - C28)	TPH (>C28 - C35)	TPH (C6- C35)
<b>MOCD RRAL:</b>					<b>10</b>	<b>50</b>	<b>1,000</b>			
1-1	15	01/08/2014	Center	352	--	--	186	2,190	414	2,790
	20	01/08/2014		75.9	--	--	<10.0	461	107	568
	25	01/08/2014		352	--	--	238	3,620	707	4,565
	30	01/08/2014		352	--	--	250	3,820	774	4,844
	40	01/08/2014		201	--	--	103	2,620	500	3,223
	50	01/08/2014		353	0.383	23.22	821	4,720	784	6,325
1-2	5	01/09/2014	East	346	--	--	231	2,950	791	3,972
	10	01/09/2014		49	--	--	26.3	328	67.4	421.7
	15	01/09/2014		9.5	--	--	<10.0	<10.0	<10.0	<10.0
	20	01/09/2014		15	--	--	<10.0	<10.0	<10.0	<10.0
	25	01/09/2014		851	--	--	271	2,470	380	3,121
	30	01/09/2014		879	<0.200	8.23	230	2,240	384	2,854
	40	01/09/2014		538	--	--	172	2,520	463	3,155
	50	01/09/2014		515	--	--	212	2,720	442	3,374
	*60	01/09/2014		--	--	--	614	5,090	888	6,592
1-3	5	01/09/2014	South	2.6	--	--	<10.0	<10.0	<10.0	<10.0
	10	01/09/2014		9.7	--	--	<10.0	<10.0	<10.0	<10.0
	15	01/09/2014		11.5	<0.100	0.106	<10.0	10.7	<10.0	10.7
	20	01/09/2014		4.4	--	--	<10.0	<10.0	<10.0	<10.0
	25	01/09/2014		--	--	--	<10.0	<10.0	<10.0	<10.0
	30	01/09/2014		--	--	--	--	--	--	--
	40	01/09/2014		--	--	--	--	--	--	--
	50	01/09/2014		--	--	--	--	--	--	--
1-4	5	01/09/2014	West	2.6	--	--	<10.0	<10.0	<10.0	<10.0

**Table 2**  
**Delineation Sample Analytical Data Summary**  
**XTO Energy, Inc., Grimes Pit #1**  
**Lea County, New Mexico**  
**1RP-12-13-2999**

Boring Number	Sample Depth	Sampling Date	Location	PID	Benzene	Total BTEX	TPH (C6 - C10)	TPH (>C10 - C28)	TPH (>C28 - C35)	TPH (C6 - C35)
<b>MOCD RRAL:</b>					<b>10</b>	<b>50</b>				<b>1,000</b>
1-4	10	01/09/2014		285	--	--	278	3,920	802	5,000
	15	01/09/2014		379	--	--	256	3,300	657	4,213
	20	01/09/2014		93.4	--	--	<10.0	565	129	694
	25	01/09/2014		334	<0.200	<1.2	316	3,750	762	4,828
	30	01/09/2014		232	--	--	296	4,510	892	5,698
	40	01/09/2014		183	--	--	118	3,590	679	4,387
	50	01/09/2014		209.4	--	--	242	4,000	784	5,026
1-5	5	01/09/2014	North	2.6	--	--	<10.0	<10.0	<10.0	<10.0
	10	01/09/2014		13.2	--	--	<10.0	35.2	<10.0	35.2
	15	01/09/2014		0.8	--	--	<10.0	<10.0	<10.0	<10.0
	20	01/09/2014		36.2	<0.100	4.59	167	2,160	364	2,691
	25	01/09/2014		7.9	--	--	64	1,200	233	1,497
	30	01/09/2014		23.9	--	--	<50.0	938	156	1,094
	40	01/09/2014		--	--	--	--	--	--	--
	50	01/09/2014		29.3	--	--	111	2,030	384	2,525

Notes: Samples analyzed by Cardinal Laboratories, Inc., Hobbs, New Mexico

Samples analyzed via EPA method SW-8021B (BTEX) and SW-8015M (TPH)

Depth is in feet below ground surface (bgs).

Photionization detector (PID) values are in parts per million (ppm)

Laboratory values are in milligrams per kilogram (mg/Kg) equivalent to parts per million (ppm).

\* Sample collected at capillary frindge or groundwater

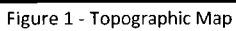
-- No data available

**Table 1**  
**Initial Soil Sample Analytical Data Summary**  
**XTO Energy, Inc., Grimes Pit #1**  
**Lea County, New Mexico**

**1RP-12-13-2999**

Composite Sample	Sampling Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	TPH (C6 - C12)	TPH (>C12 - C28)	TPH (>C28 - C35)	TPH (C6 - C35)	Chloride
19.15.17.13(3) Standard		10	0.75	0.75	0.62	50					600
Pit #1	12/2/2013	<0.00112	<0.00225	0.00445	0.0211	0.02555	505	6,210	839	7,554	95.8

## FIGURES





BSK

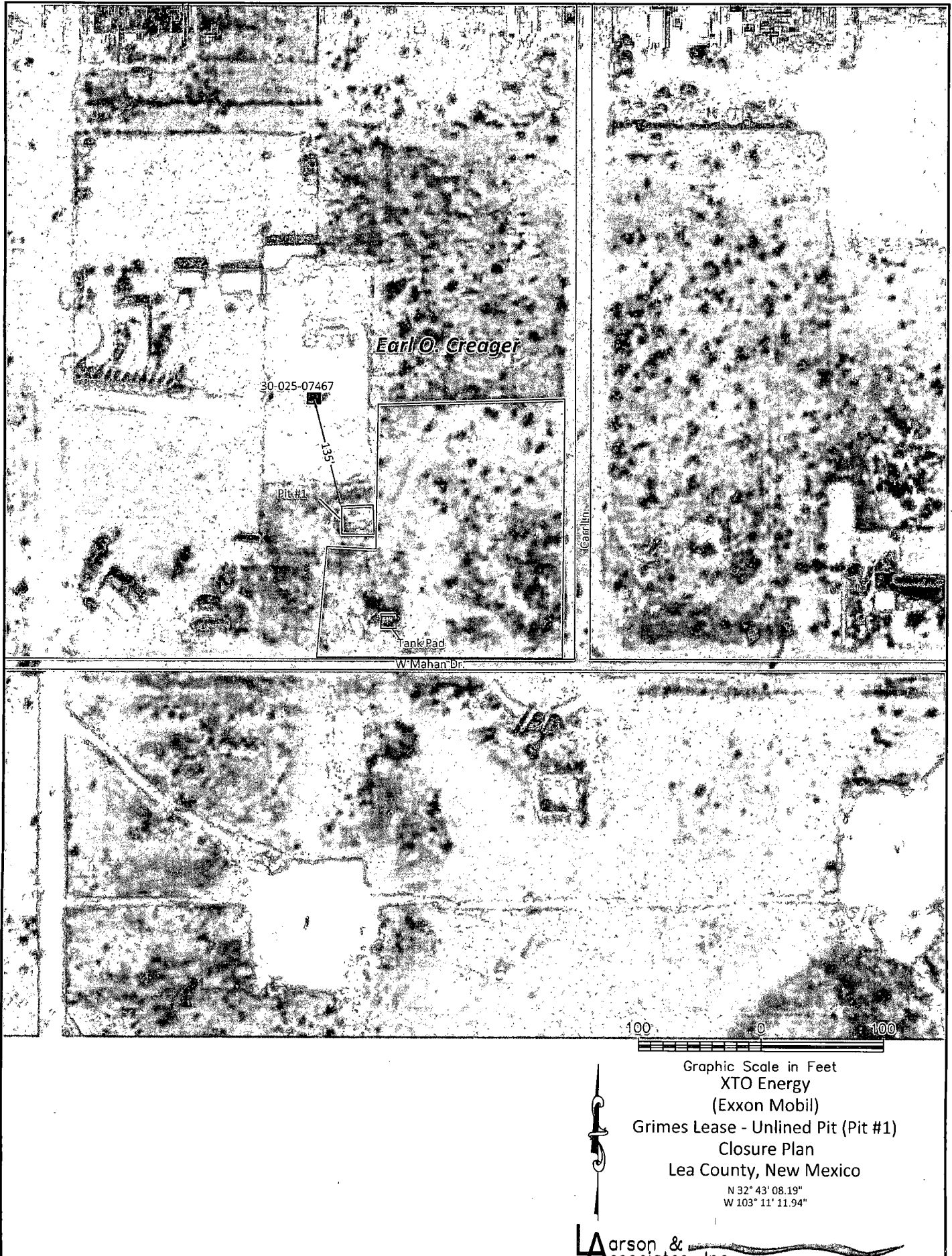


Figure 2 - Aerial Map

BSK

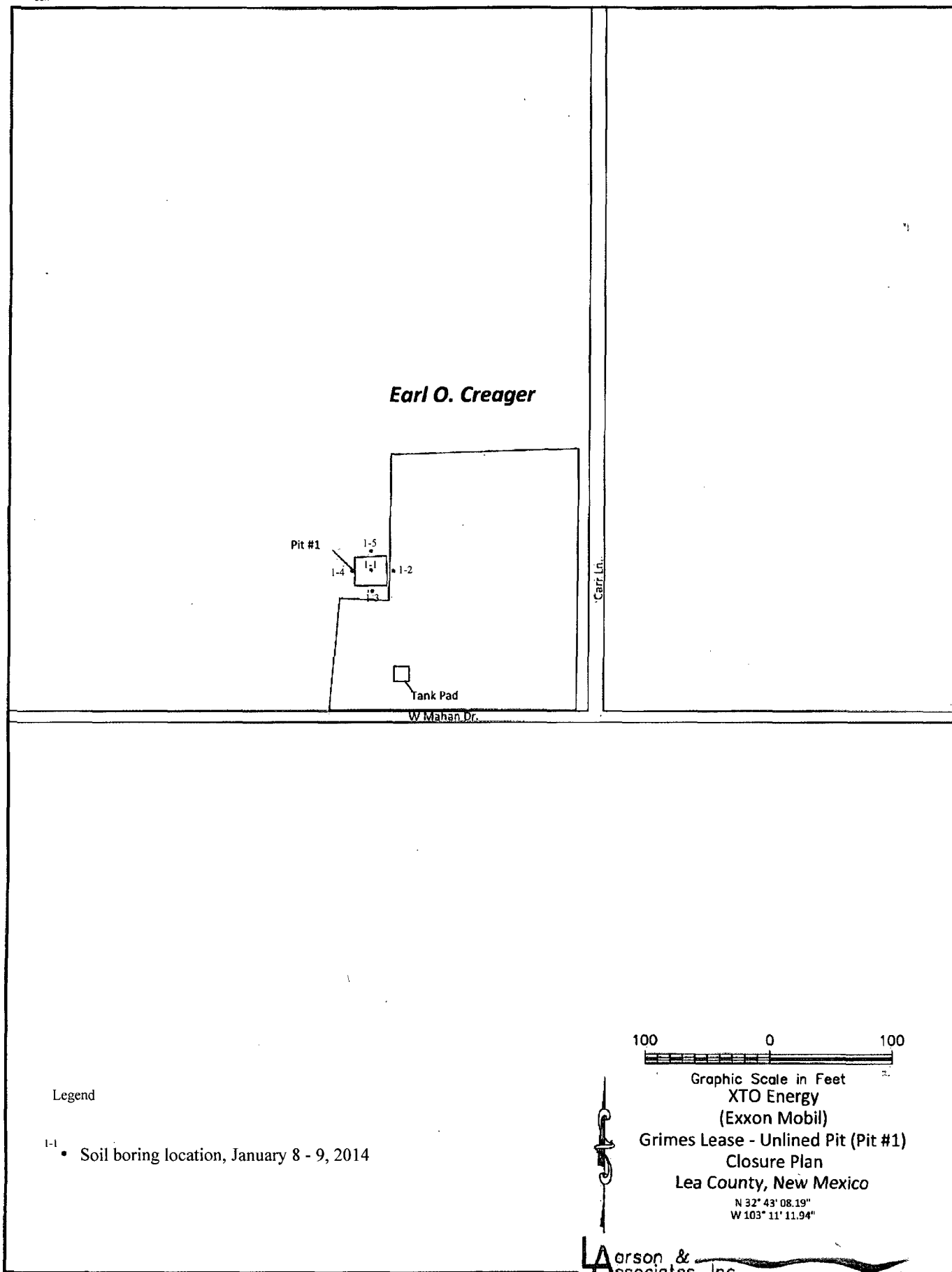
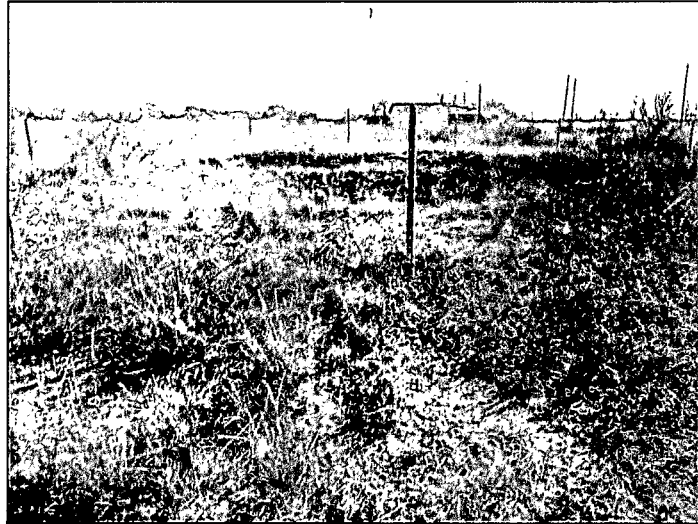


Figure 3 - Site Map

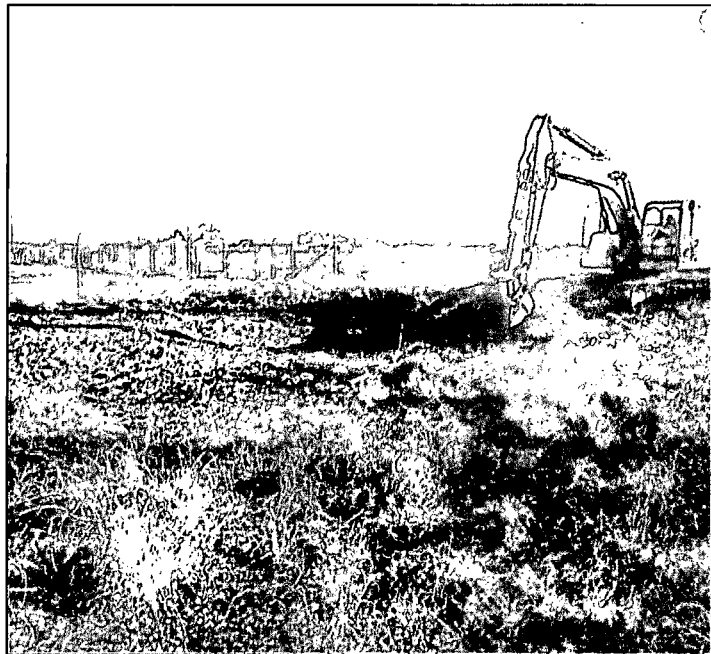
**ATTACHMENT A**

**Photographs**

**Photo:** Pit #1 before excavation  
commenced **Direction:** Northwest

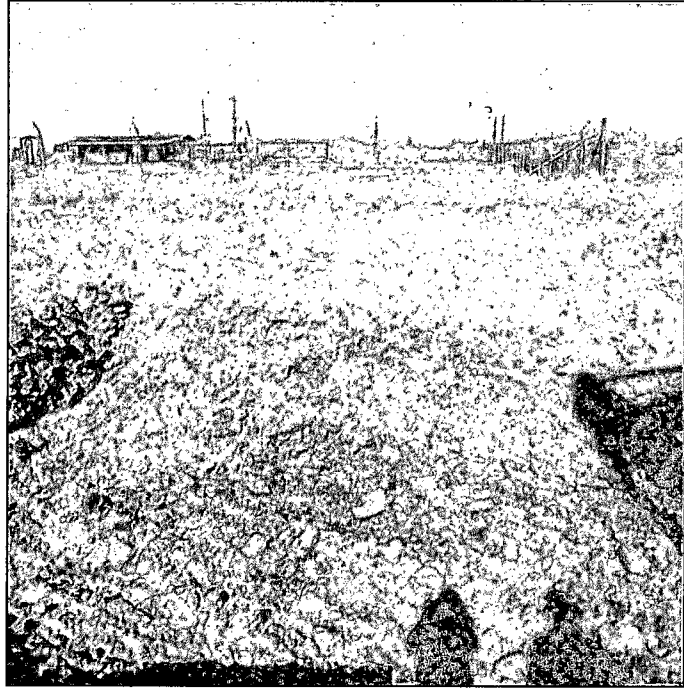


**Photo:** Pit during excavation  
**Direction:** North



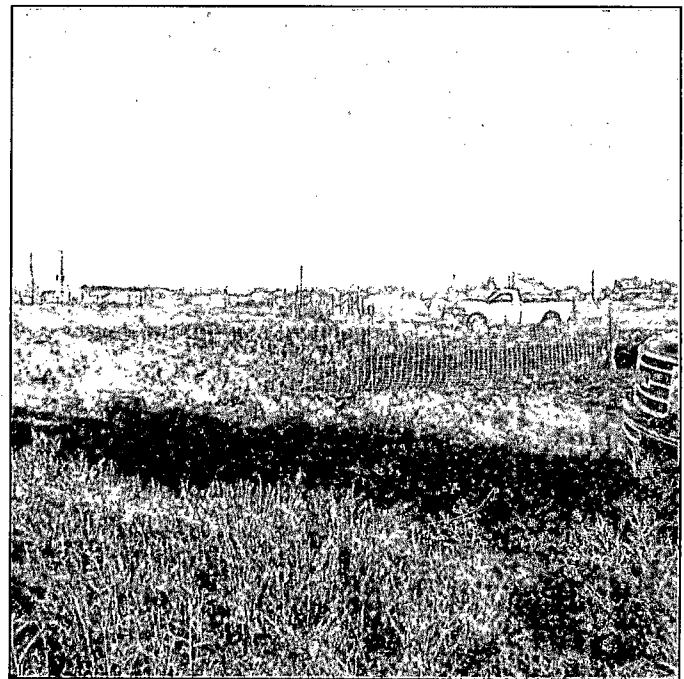
**Photo:** Excavation limits of pit

**Direction:** North



**Photo:** Fence surrounding pit after the completion of the excavation.

**Direction:** North



**ATTACHMENT B**

**Laboratory Reports**



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

---

January 14, 2014

MARK LARSON

LARSON & ASSOCIATES, INC.

507 N. MARIENFELD, SUITE 200

MIDLAND, TX 79701

RE: GRIMES PIT #1

Enclosed are the results of analyses for samples received by the laboratory on 01/08/14 15:15.

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](http://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 fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

LARSON & ASSOCIATES, INC.  
MARK LARSON  
507 N. MARIENFELD, SUITE 200  
MIDLAND TX, 79701  
Fax To: ?

Received: 01/08/2014  
Reported: 01/14/2014  
Project Name: GRIMES PIT #1  
Project Number: 12-0148-02  
Project Location: NOT GIVEN

Sampling Date: 01/08/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: 1-1-15' (H400060-01)**

TPH 8015M	mg/kg	Analyzed By: ms					S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	186	50.0	01/11/2014	ND	190	94.8	200	1.69	
DRO >C10-C28	2190	50.0	01/11/2014	ND	195	97.7	200	2.06	
EXT DRO >C28-C35	414	50.0	01/11/2014	ND					
<hr/>									
Surrogate: 1-Chlorooctane	93.1 %	65.2-140							
Surrogate: 1-Chlorooctadecane	165 %	63.6-154							

**Sample ID: 1-1-20' (H400060-02)**

TPH 8015M	mg/kg	Analyzed By: ms							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/11/2014	ND	190	94.8	200	1.69	
DRO >C10-C28	461	10.0	01/11/2014	ND	195	97.7	200	2.06	
EXT DRO >C28-C35	107	10.0	01/11/2014	ND					
<hr/>									
Surrogate: 1-Chlorooctane	104 %	65.2-140							
Surrogate: 1-Chlorooctadecane	114 %	63.6-154							

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 LARSON & ASSOCIATES, INC.  
 MARK LARSON  
 507 N. MARIENFELD, SUITE 200  
 MIDLAND TX, 79701  
 Fax To: ?

 Received: 01/08/2014  
 Reported: 01/14/2014  
 Project Name: GRIMES PIT #1  
 Project Number: 12-0148-02  
 Project Location: NOT GIVEN

 Sampling Date: 01/08/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: 1-1-25' (H400060-03)**

TPH 8015M	mg/kg	Analyzed By: ms					S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	238	100	01/11/2014	ND	190	94.8	200	1.69	
DRO >C10-C28	3620	100	01/11/2014	ND	195	97.7	200	2.06	
EXT DRO >C28-C35	707	100	01/11/2014	ND					
Surrogate: 1-Chlorooctane	98.4 %	65.2-140							
Surrogate: 1-Chlorooctadecane	190 %	63.6-154							

**Sample ID: 1-1-30' (H400060-04)**

TPH 8015M	mg/kg	Analyzed By: ms					S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	250	100	01/11/2014	ND	190	94.8	200	1.69	
DRO >C10-C28	3820	100	01/11/2014	ND	195	97.7	200	2.06	
EXT DRO >C28-C35	774	100	01/11/2014	ND					
Surrogate: 1-Chlorooctane	115 %	65.2-140							
Surrogate: 1-Chlorooctadecane	187 %	63.6-154							

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

LARSON & ASSOCIATES, INC.  
MARK LARSON  
507 N. MARIENFELD, SUITE 200  
MIDLAND TX, 79701  
Fax To: ?

Received: 01/08/2014  
Reported: 01/14/2014  
Project Name: GRIMES PIT #1  
Project Number: 12-0148-02  
Project Location: NOT GIVEN

Sampling Date: 01/08/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: 1-1-40' (H400060-05)**

TPH 8015M	mg/kg	Analyzed By: ms					S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	103	100	01/11/2014	ND	190	94.8	200	1.69	
DRO >C10-C28	2620	100	01/11/2014	ND	195	97.7	200	2.06	
EXT DRO >C28-C35	500	100	01/11/2014	ND					
<hr/>									
Surrogate: 1-Chlorooctane	99.8 %	65.2-140							
Surrogate: 1-Chlorooctadecane	193 %	63.6-154							

Cardinal Laboratories

\*—Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 LARSON & ASSOCIATES, INC.  
 MARK LARSON  
 507 N. MARIENFELD, SUITE 200  
 MIDLAND TX, 79701  
 Fax To: ?

 Received: 01/08/2014  
 Reported: 01/14/2014  
 Project Name: GRIMES PIT #1  
 Project Number: 12-0148-02  
 Project Location: NOT GIVEN

 Sampling Date: 01/08/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: 1-1-50' (H400060-06)**

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.383</b>	0.250	01/13/2014	ND	2.09	105	2.00	3.68	
<b>Toluene*</b>	<b>1.18</b>	0.500	01/13/2014	ND	2.06	103	2.00	3.76	
<b>Ethylbenzene*</b>	<b>9.66</b>	0.500	01/13/2014	ND	2.10	105	2.00	3.52	
<b>Total Xylenes*</b>	<b>12.0</b>	1.50	01/13/2014	ND	6.12	102	6.00	3.11	
<b>Total BTX</b>	<b>23.2</b>	2.75	01/13/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 182 % 89.4-126

TPH 8015M		mg/kg	Analyzed By: ms					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>821</b>	100	01/11/2014	ND	190	94.8	200	1.69	
<b>DRO &gt;C10-C28</b>	<b>4720</b>	100	01/11/2014	ND	195	97.7	200	2.06	
<b>EXT DRO &gt;C28-C35</b>	<b>784</b>	100	01/11/2014	ND					

Surrogate: 1-Chlorooctane 167 % 65.2-140

Surrogate: 1-Chlorooctadecane 182 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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. Keene, Lab Director/Quality Manager



January 17, 2014

MARK LARSON

LARSON & ASSOCIATES, INC.

507 N. MARIENFELD, SUITE 200

MIDLAND, TX 79701

RE: GRIMES PIT #1

Enclosed are the results of analyses for samples received by the laboratory on 01/09/14 16:20.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

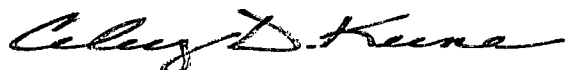
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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:**

 LARSON & ASSOCIATES, INC.  
 MARK LARSON  
 507 N. MARIENFELD, SUITE 200  
 MIDLAND TX, 79701  
 Fax To: ?

 Received: 01/09/2014  
 Reported: 01/17/2014  
 Project Name: GRIMES PIT #1  
 Project Number: 12-0148-02  
 Project Location: NOT GIVEN

 Sampling Date: 01/09/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: 1-2-5' (H400084-01)**

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	231	50.0	01/12/2014	ND	170	84.8	200	9.62	
DRO >C10-C28	2950	50.0	01/12/2014	ND	170	84.8	200	13.1	
EXT DRO >C28-C35	791	50.0	01/12/2014	ND					
<hr/>									
Surrogate: 1-Chlorooctane	94.8 %	65.2-140							
Surrogate: 1-Chlorooctadecane	163 %	63.6-154							

**Sample ID: 1-2-10' (H400084-02)**

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	26.3	10.0	01/12/2014	ND	170	84.8	200	9.62	
DRO >C10-C28	328	10.0	01/12/2014	ND	170	84.8	200	13.1	
EXT DRO >C28-C35	67.4	10.0	01/12/2014	ND					
Surrogate: 1-Chlorooctane	76.3 %	65.2-140							
Surrogate: 1-Chlorooctadecane	84.7 %	63.6-154							

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

LARSON & ASSOCIATES, INC.  
MARK LARSON  
507 N. MARIENFELD, SUITE 200  
MIDLAND TX, 79701  
Fax To: ?

Received: 01/09/2014  
Reported: 01/17/2014  
Project Name: GRIMES PIT #1  
Project Number: 12-0148-02  
Project Location: NOT GIVEN

Sampling Date: 01/09/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: 1-2-15' (H400084-03)**

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	01/12/2014	ND	170	84.8	200	9.62	
DRO >C10-C28	<10.0	10.0	01/12/2014	ND	170	84.8	200	13.1	
EXT DRO >C28-C35	<10.0	10.0	01/12/2014	ND					
Surrogate: 1-Chlorooctane	78.0 %	65.2-140							
Surrogate: 1-Chlorooctadecane	90.0 %	63.6-154							

**Sample ID: 1-2-20' (H400084-04)**

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	01/12/2014	ND	170	84.8	200	9.62	
DRO >C10-C28	<10.0	10.0	01/12/2014	ND	170	84.8	200	13.1	
EXT DRO >C28-C35	<10.0	10.0	01/12/2014	ND					
Surrogate: 1-Chlorooctane	93.6 %	65.2-140							
Surrogate: 1-Chlorooctadecane	102 %	63.6-154							

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Celey D. Keene, Lab Director/Quality Manager



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MARK LARSON  
507 N. MARIENFELD, SUITE 200  
MIDLAND TX, 79701  
Fax To: ?

Received: 01/09/2014  
Reported: 01/17/2014  
Project Name: GRIMES PIT #1  
Project Number: 12-0148-02  
Project Location: NOT GIVEN

Sampling Date: 01/09/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: 1-2-25' (H400084-05)**

TPH 8015M	mg/kg	Analyzed By: ms							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	271	50.0	01/12/2014	ND	170	84.8	200	9.62	
DRO >C10-C28	2470	50.0	01/12/2014	ND	170	84.8	200	13.1	
EXT DRO >C28-C35	380	50.0	01/12/2014	ND					

Surrogate: 1-Chlorooctane 133 % 65.2-140

Surrogate: 1-Chlorooctadecane 147 % 63.6-154

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 MARK LARSON  
 507 N. MARIENFELD, SUITE 200  
 MIDLAND TX, 79701  
 Fax To: ?

 Received: 01/09/2014  
 Reported: 01/17/2014  
 Project Name: GRIMES PIT #1  
 Project Number: 12-0148-02  
 Project Location: NOT GIVEN

 Sampling Date: 01/09/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: 1-2-30' (H400084-06)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	01/14/2014	ND	1.97	98.7	2.00	5.22	
Toluene*	<0.200	0.200	01/14/2014	ND	1.91	95.6	2.00	6.25	
Ethylbenzene*	1.90	0.200	01/14/2014	ND	1.95	97.7	2.00	5.02	
Total Xylenes*	6.33	0.600	01/14/2014	ND	5.73	95.4	6.00	4.47	
Total BTEX	8.23	1.20	01/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIB) 178 % 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	230	50.0	01/12/2014	ND	170	84.8	200	9.62	
DRO >C10-C28	2240	50.0	01/12/2014	ND	170	84.8	200	13.1	
EXT DRO >C28-C35	384	50.0	01/12/2014	ND					

Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 125 % 63.6-154

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MARK LARSON  
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MIDLAND TX, 79701  
Fax To: ?

Received:	01/09/2014	Sampling Date:	01/09/2014
Reported:	01/17/2014	Sampling Type:	Soil
Project Name:	GRIMES PIT #1	Sampling Condition:	Cool & Intact
Project Number:	12-0148-02	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: 1-2-40' (H400084-07)**

TPH 8015M		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	172	50.0	01/12/2014	ND	170	84.8	200	9.62	
DRO >C10-C28	2520	50.0	01/12/2014	ND	170	84.8	200	13.1	
EXT DRO >C28-C35	463	50.0	01/12/2014	ND					
Surrogate: 1-Chlorooctane									
	107 %	65.2-140							
Surrogate: 1-Chlorooctadecane									
	143 %	63.6-154							

**Sample ID: 1-2-50' (H400084-08)**

TPH 8015M		mg/kg	Analyzed By: ms							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	212	100	01/13/2014	ND	194	96.9	200	1.27		
DRO >C10-C28	2720	100	01/13/2014	ND	210	105	200	0.318		
EXT DRO >C28-C35	442	100	01/13/2014	ND						
Surrogate: 1-Chlorooctane										
	105 %	65.2-140								
Surrogate: 1-Chlorooctadecane										
	198 %	63.6-154								

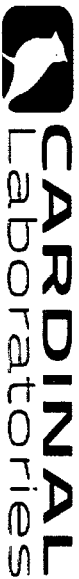
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

LARSON & ASSOCIATES, INC.

MARK LARSON

507 N. MARLENFELD, SUITE 200

MIDLAND TX, 79701

Fax To: ?

Received: 01/09/2014  
Reported: 01/17/2014  
Project Name: GRIMES PIT #1  
Project Number: 12-0148-02  
Project Location: NOT GIVEN

Sampling Date: 01/09/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: 1-2-60' (H400084-09)**

TPH 8015M		mg/kg	Analyzed By: ms		S-06			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD Qualifier
GRO C6-C10	614	100	01/13/2014	ND	194	96.9	200	1.27
DRO > C10-C28	5090	100	01/13/2014	ND	210	105	200	0.318
EXT DRO > C28-C35	888	100	01/13/2014	ND				

**Surrogate: 1-Chlorooctane**

158 % 65.2-140

**Surrogate: 1-Chlorodecane**

180 % 63.6-154

**Sample ID: 1-3-5' (H400084-10)**

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	01/13/2014	ND	194	96.9	200	1.27
DRO > C10-C28	<10.0	10.0	01/13/2014	ND	210	105	200	0.318
EXT DRO > C28-C35	<10.0	10.0	01/13/2014	ND				
<b>Surrogate: 1-Chlorooctane</b>								
	71.2 %	65.2-140						
<b>Surrogate: 1-Chlorodecane</b>								
	80.5 %	63.6-154						

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*Cathy D. Keene*

Cathy D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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MARK LARSON  
507 N. MARIENFELD, SUITE 200  
MIDLAND TX, 79701  
Fax To: ?

Received: 01/09/2014  
Reported: 01/17/2014  
Project Name: GRIMES PIT #1  
Project Number: 12-0148-02  
Project Location: NOT GIVEN

Sampling Date: 01/09/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: 1-3-10' (H400084-11)**

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	01/13/2014	ND	194	96.9	200	1.27	
DRO >C10-C28	<10.0	10.0	01/13/2014	ND	210	105	200	0.318	
EXT DRO >C28-C35	<10.0	10.0	01/13/2014	ND					
<hr/>									
Surrogate: 1-Chlorooctane	78.2 %	65.2-140							
Surrogate: 1-Chlorooctadecane	87.3 %	63.6-154							

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

LARSON & ASSOCIATES, INC.  
MARK LARSON  
507 N. MARIENFELD, SUITE 200  
MIDLAND TX, 79701  
Fax To: ?

Received: 01/09/2014  
Reported: 01/17/2014  
Project Name: GRIMES PIT #1  
Project Number: 12-0148-02  
Project Location: NOT GIVEN

Sampling Date: 01/09/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: 1-3-15' (H400084-12)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	01/17/2014	ND	1.97	98.7	2.00	5.22	
<b>Toluene*</b>	<b>0.106</b>	0.100	01/17/2014	ND	1.91	95.6	2.00	6.25	
Ethylbenzene*	<0.100	0.100	01/17/2014	ND	1.95	97.7	2.00	5.02	
Total Xylenes*	<0.300	0.300	01/17/2014	ND	5.73	95.4	6.00	4.47	
Total BTEX	<0.600	0.600	01/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 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	<10.0	10.0	01/13/2014	ND	194	96.9	200	1.27	
<b>DRO &gt;C10-C28</b>	<b>10.7</b>	10.0	01/13/2014	ND	210	105	200	0.318	
EXT DRO >C28-C35	<10.0	10.0	01/13/2014	ND					

Surrogate: 1-Chlorooctane 92.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.7 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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 MARK LARSON  
 507 N. MARIENFELD, SUITE 200  
 MIDLAND TX, 79701  
 Fax To: ?

Received:	01/09/2014	Sampling Date:	01/09/2014
Reported:	01/17/2014	Sampling Type:	Soil
Project Name:	GRIMES PIT #1	Sampling Condition:	Cool & Intact
Project Number:	12-0148-02	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: 1-3-20' (H400084-13)**

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	01/13/2014	ND	194	96.9	200	1.27	
DRO >C10-C28	<10.0	10.0	01/13/2014	ND	210	105	200	0.318	
EXT DRO >C28-C35	<10.0	10.0	01/13/2014	ND					
<hr/>									
Surrogate: 1-Chlorooctane	90.9 %	65.2-140							
Surrogate: 1-Chlorooctadecane	89.4 %	63.6-154							

**Sample ID: 1-3-25' (H400084-14)**

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	01/13/2014	ND	194	96.9	200	1.27	
DRO >C10-C28	<10.0	10.0	01/13/2014	ND	210	105	200	0.318	
EXT DRO >C28-C35	<10.0	10.0	01/13/2014	ND					
<hr/>									
Surrogate: 1-Chlorooctane	82.9 %	65.2-140							
Surrogate: 1-Chlorooctadecane	90.1 %	63.6-154							

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 MARK LARSON  
 507 N. MARIENFELD, SUITE 200  
 MIDLAND TX, 79701  
 Fax To: ?

 Received: 01/09/2014  
 Reported: 01/17/2014  
 Project Name: GRIMES PIT #1  
 Project Number: 12-0148-02  
 Project Location: NOT GIVEN

 Sampling Date: 01/09/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: 1-4-5' (H400084-15)**

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	01/13/2014	ND	194	96.9	200	1.27	
DRO >C10-C28	<10.0	10.0	01/13/2014	ND	210	105	200	0.318	
EXT DRO >C28-C35	<10.0	10.0	01/13/2014	ND					
<i>Surrogate: 1-Chlorooctane</i>									
	76.8 %	65.2-140							
<i>Surrogate: 1-Chlorooctadecane</i>									
	85.5 %	63.6-154							

**Sample ID: 1-4-10' (H400084-16)**

TPH 8015M		mg/kg		Analyzed By: ms						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	278	100	01/13/2014	ND	194	96.9	200	1.27		
DRO >C10-C28	3920	100	01/13/2014	ND	210	105	200	0.318		
EXT DRO >C28-C35	802	100	01/13/2014	ND						
<i>Surrogate: 1-Chlorooctane</i>										
	78.5 %	65.2-140								
<i>Surrogate: 1-Chlorooctadecane</i>										
	174 %	63.6-154								

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507 N. MARIENFELD, SUITE 200  
MIDLAND TX, 79701  
Fax To: ?

Received: 01/09/2014  
Reported: 01/17/2014  
Project Name: GRIMES PIT #1  
Project Number: 12-0148-02  
Project Location: NOT GIVEN

Sampling Date: 01/09/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: 1-4-15' (H400084-17)**

TPH 8015M	mg/kg	Analyzed By: ms					S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	256	100	01/13/2014	ND	194	96.9	200	1.27	
DRO >C10-C28	3300	100	01/13/2014	ND	210	105	200	0.318	
EXT DRO >C28-C35	657	100	01/13/2014	ND					
<hr/>									
Surrogate: 1-Chlorooctane	79.7 %	65.2-140							
Surrogate: 1-Chlorooctadecane	161 %	63.6-154							

**Sample ID: 1-4-20' (H400084-18)**

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	01/13/2014	ND	194	96.9	200	1.27	
DRO >C10-C28	565	10.0	01/13/2014	ND	210	105	200	0.318	
EXT DRO >C28-C35	129	10.0	01/13/2014	ND					
<hr/>									
Surrogate: 1-Chlorooctane	89.0 %	65.2-140							
Surrogate: 1-Chlorooctadecane	99.3 %	63.6-154							

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 LARSON & ASSOCIATES, INC.  
 MARK LARSON  
 507 N. MARIENFELD, SUITE 200  
 MIDLAND TX, 79701  
 Fax To: ?

 Received: 01/09/2014  
 Reported: 01/17/2014  
 Project Name: GRIMES PIT #1  
 Project Number: 12-0148-02  
 Project Location: NOT GIVEN

 Sampling Date: 01/09/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: 1-4-25' (H400084-19)**

BTX 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	01/14/2014	ND	1.97	98.7	2.00	5.22	
Toluene*	<0.200	0.200	01/14/2014	ND	1.91	95.6	2.00	6.25	
Ethylbenzene*	<0.200	0.200	01/14/2014	ND	1.95	97.7	2.00	5.02	
Total Xylenes*	<0.600	0.600	01/14/2014	ND	5.73	95.4	6.00	4.47	
Total BTX	<1.20	1.20	01/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIB) 107 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	316	100	01/13/2014	ND	194	96.9	200	1.27	
DRO >C10-C28	3750	100	01/13/2014	ND	210	105	200	0.318	
EXT DRO >C28-C35	762	100	01/13/2014	ND					

Surrogate: 1-Chlorooctane 96.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 218 % 63.6-154

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 Fax To: ?

 Received: 01/09/2014  
 Reported: 01/17/2014  
 Project Name: GRIMES PIT #1  
 Project Number: 12-0148-02  
 Project Location: NOT GIVEN

 Sampling Date: 01/09/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: 1-4-30' (H400084-20)**

TPH 8015M	mg/kg	Analyzed By: ms					S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	296	100	01/13/2014	ND	194	96.9	200	1.27	
DRO >C10-C28	4510	100	01/13/2014	ND	210	105	200	0.318	
EXT DRO >C28-C35	892	100	01/13/2014	ND					
Surrogate: 1-Chlorooctane	107 %	65.2-140							
Surrogate: 1-Chlorooctadecane	180 %	63.6-154							

**Sample ID: 1-4-40' (H400084-21)**

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	118	100	01/17/2014	ND	194	96.9	200	1.27	
DRO >C10-C28	3590	100	01/17/2014	ND	210	105	200	0.318	
EXT DRO >C28-C35	679	100	01/17/2014	ND					
Surrogate: 1-Chlorooctane	112 %	65.2-140							
Surrogate: 1-Chlorooctadecane	150 %	63.6-154							

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 MARK LARSON  
 507 N. MARIENFELD, SUITE 200  
 MIDLAND TX, 79701  
 Fax To: ?

 Received: 01/09/2014  
 Reported: 01/17/2014  
 Project Name: GRIMES PIT #1  
 Project Number: 12-0148-02  
 Project Location: NOT GIVEN

 Sampling Date: 01/09/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: 1-4-50' (H400084-22)**

TPH 8015M	mg/kg	Analyzed By: ms					S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	242	100	01/13/2014	ND	194	96.9	200	1.27	
DRO >C10-C28	4000	100	01/13/2014	ND	210	105	200	0.318	
EXT DRO >C28-C35	784	100	01/13/2014	ND					

Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 184 % 63.6-154

**Sample ID: 1-5-5' (H400084-23)**

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	01/13/2014	ND	194	96.9	200	1.27	
DRO >C10-C28	<10.0	10.0	01/13/2014	ND	210	105	200	0.318	
EXT DRO >C28-C35	<10.0	10.0	01/13/2014	ND					

Surrogate: 1-Chlorooctane 88.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.8 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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MARK LARSON  
507 N. MARIENFELD, SUITE 200  
MIDLAND TX, 79701  
Fax To: ?

Received: 01/09/2014  
Reported: 01/17/2014  
Project Name: GRIMES PIT #1  
Project Number: 12-0148-02  
Project Location: NOT GIVEN

Sampling Date: 01/09/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: 1-5-10' (H400084-24)**

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	01/13/2014	ND	194	96.9	200	1.27	
<b>DRO &gt;C10-C28</b>	<b>35.2</b>	10.0	01/13/2014	ND	210	105	200	0.318	
EXT DRO >C28-C35	<10.0	10.0	01/13/2014	ND					
<hr/>									
Surrogate: 1-Chlorooctane	101 %	65.2-140							
Surrogate: 1-Chlorooctadecane	101 %	63.6-154							

**Sample ID: 1-5-15' (H400084-25)**

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	01/13/2014	ND	194	96.9	200	1.27	
DRO >C10-C28	<10.0	10.0	01/13/2014	ND	210	105	200	0.318	
EXT DRO >C28-C35	<10.0	10.0	01/13/2014	ND					
<hr/>									
Surrogate: 1-Chlorooctane	93.8 %	65.2-140							
Surrogate: 1-Chlorooctadecane	106 %	63.6-154							

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 507 N. MARIENFELD, SUITE 200  
 MIDLAND TX, 79701  
 Fax To: ?

 Received: 01/09/2014  
 Reported: 01/17/2014  
 Project Name: GRIMES PIT #1  
 Project Number: 12-0148-02  
 Project Location: NOT GIVEN

 Sampling Date: 01/09/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: 1-5-20' (H400084-26)**

BTEX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	01/15/2014	ND	2.17	108	2.00	1.01	
Toluene*	<0.100	0.100	01/15/2014	ND	2.13	106	2.00	0.607	
Ethylbenzene*	<b>0.987</b>	0.100	01/15/2014	ND	2.15	108	2.00	0.331	
<b>Total Xylenes*</b>	<b>3.61</b>	0.300	01/15/2014	ND	6.38	106	6.00	0.537	
<b>Total BTEX</b>	<b>4.59</b>	0.600	01/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 173 % 89.4-126

TPH 8015M		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>167</b>	50.0	01/13/2014	ND	194	96.9	200	1.27	
<b>DRO &gt;C10-C28</b>	<b>2160</b>	50.0	01/13/2014	ND	210	105	200	0.318	
<b>EXT DRO &gt;C28-C35</b>	<b>364</b>	50.0	01/13/2014	ND					

Surrogate: 1-Chlorooctane 115 % 65.2-140

Surrogate: 1-Chlorooctadecane 130 % 63.6-154

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 Fax To: ?

 Received: 01/09/2014  
 Reported: 01/17/2014  
 Project Name: GRIMES PIT #1  
 Project Number: 12-0148-02  
 Project Location: NOT GIVEN

 Sampling Date: 01/09/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: 1-5-25' (H400084-27)**

TPH 8015M	mg/kg	Analyzed By: ms							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>64.0</b>	50.0	01/13/2014	ND	194	96.9	200	1.27	
<b>DRO &gt;C10-C28</b>	<b>1200</b>	50.0	01/13/2014	ND	210	105	200	0.318	
<b>EXT DRO &gt;C28-C35</b>	<b>233</b>	50.0	01/13/2014	ND					
<hr/>									
Surrogate: 1-Chlorooctane	93.9 %	65.2-140							
Surrogate: 1-Chlorooctadecane	136 %	63.6-154							

**Sample ID: 1-5-30' (H400084-28)**

TPH 8015M	mg/kg	Analyzed By: ms							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	01/14/2014	ND	185	92.4	200	6.28	
<b>DRO &gt;C10-C28</b>	<b>938</b>	50.0	01/14/2014	ND	192	96.2	200	8.34	
<b>EXT DRO &gt;C28-C35</b>	<b>156</b>	50.0	01/14/2014	ND					
<hr/>									
Surrogate: 1-Chlorooctane	80.7 %	65.2-140							
Surrogate: 1-Chlorooctadecane	135 %	63.6-154							

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Fax To: ?

Received: 01/09/2014  
Reported: 01/17/2014  
Project Name: GRIMES PIT #1  
Project Number: 12-0148-02  
Project Location: NOT GIVEN

Sampling Date: 01/09/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: 1-5-50' (H400084-29)**

TPH 8015M	mg/kg	Analyzed By: ms						S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	111	50.0	01/14/2014	ND	185	92.4	200	6.28	
DRO >C10-C28	2030	50.0	01/14/2014	ND	192	96.2	200	8.34	
EXT DRO >C28-C35	384	50.0	01/14/2014	ND					
Surrogate: 1-Chlorooctane	98.6 %	65.2-140							
Surrogate: 1-Chlorooctadecane	160 %	63.6-154							

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### Notes and Definitions


S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
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

DATE: 1/9/14 PAGE 1 OF 2  
PO #: LAB WORK ORDER #: H400084  
PROJECT LOCATION OR NAME: Grimes Pit #1  
LAI PROJECT #: 12-0148-02 COLLECTOR: AND

Data Reported to:

[illegible][illegible]

RELINQUISHED BY: (Signature).

DATE/TIME

RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)

DATE/TIME:

RECEIVED BY: (Signature)

### TURN AROUND TIME

NORMAL ☐

1 DAY 2 DAY OTHER 

**LABORATORY USE ONLY:**

RECEIVING TEMP: 0.2 THERM #: 54

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☒ NOT USED

CARRIER BILL #

☒ HAND DELIVERED

## Page 22 of 23

660. 441. 4440

