# JMB Transport Merchant Gap 25 State Com #1H Closure Report RP 3405

Section 25, T22S, R34E Lea County, New Mexico

**December 8, 2014** 



## Prepared for:

JMB Transport 800 West Airport Freeway Suite 1100 Irving, Texas 75062

By:

Safety & Environmental Solutions, Inc. 703 East Clinton Street Hobbs, New Mexico 88240 (575) 397-0510

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## I. Company Contacts

Representative	Company	Telephone	E-mail		
BJ Cox	GMT Explotation	1-307-354-8895	Bjcox@gmtexploration.com		
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com		

## II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged by JMB Transport to perform site assessment and clean up of a release area at the Merchant Gap 25 State Com #1H located in Section 25 of Township 22 South, Range 34 East, Lea County, New Mexico.

According to the C-141 dated October 31, 2014 the cause of release was the oil hauler fell asleep while loading and overflowed his tank.

## III. Surface and Ground Water

The nearest groundwater of record is approximately 1.0 mile Northwest of the site. The New Mexico Office of State Engineer record is in Section 23 Range 34 East and Township 22 South. The reported depth was 90 feet below ground surface (BGS).

## IV. Characterization

The target cleanup levels are determined using the *Guidelines for Remediation of Leaks, Spills and Releases* published by the NMOCD (August 13, 1993). Based on the ranking criteria presented below, the applicable Recommended Remediation Action Levels (RRAL) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 1,000 ppm Total Petroleum Hydrocarbons (TPH).

Depth to Ground Water:			
(Vertical distance from contaminants to	Less than 50 feet	20 points	
seasonal high water elevation of	50 feet to 99 feet	10 points	X
groundwater)	>100 feet	0 points	
Wellhead Protection Area:			
(Less than 200 feet from a private domestic	Yes	20 points	
water source; or less than 1000 feet from all	No	0 points	Х
other water sources)			
Distance to Surface Water:			
(Horizontal distance to perennial lakes,	Less than 200 feet	20 points	
ponds, rivers, streams, creeks, irrigation	200 feet to 1000 feet	10 points	
canals and ditches)	>1000 feet	0 points	X
RANKING SCORE (TOTAL POINTS)			10

## V. Work Performed

On October 31, 2014, Safety & Environmental Solutions, Inc. was onsite photographs were taken and the location was mapped.

On November 12, 2014, Safety & Environmental Solutions, Inc. was onsite to determine vertical extent of contamination. All Samples were properly packaged, preserved and transported to the Laboratory, Hobbs New Mexico and analyzed for Benzene, Toluene, Ethylbenzene, Xylenes, Total BTEX and Chloride (Cl<sup>-</sup>) (Method SM4500Cl-B). The results of the analysis are presented in the table below:

Sample Date 11/12/2014	Sample ID	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX
Depth	Method					
TT1 at 1'6"	BTEX 8021B	< 0.050	0.067	< 0.050	<0.150	< 0.300
TT2 at 2'	BTEX 8021B	< 0.050	0.108	< 0.050	<0.150	< 0.300
TT3 at 3'6"	BTEX 8021B	< 0.050	<0.050	< 0.050	<0.150	< 0.300
TT4 at 11'8"	BTEX 8021B	< 0.050	<0.050	< 0.050	<0.150	< 0.300
TT5 at 5'6"	BTEX 8021B	< 0.050	<0.050	< 0.050	<0.150	< 0.300
TT6 at 2'6"	BTEX 8021B	< 0.050	<0.050	< 0.050	<0.150	< 0.300

Sample Date 11/12/2014	Sample ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/kg)
Depth	Method		
TT1 at 1'6"	TPH 8015M	<10.0	<10.0
TT2 at 2'	TPH 8015M	85.6	143
TT3 at 3'6"	TPH 8015M	<10.0	11.7
TT4 at 11'8"	TPH 8015M	<10.0	<10.0
TT5 at 5'6"	TPH 8015M	<10.0	<10.0
TT6 at 2'6"	TPH 8015M	<10.0	<10.0

The Vertical Extent was found in all test trenches.

On December 3, 2014 SESI on site to excavate 100 yards of contaminated soil was removed and transported to Sundance.

## VI. Closure

- 1. Excavate contaminated soil to where the sides and bottom of the excavation are less than 1000 PPM TPH. Transport all contaminated soil to an approved NMOCD facility for disposal.
- 2. Confirmation samples were taken.
- 3. The excavated area has been backfilled with clean soil off the location and caliche on the location.

## VII. Figures & Appendices

Figure 1 – Vicinity Map

Figure 2 – Site Plan

Figure 3 – NMOCD Trend Map

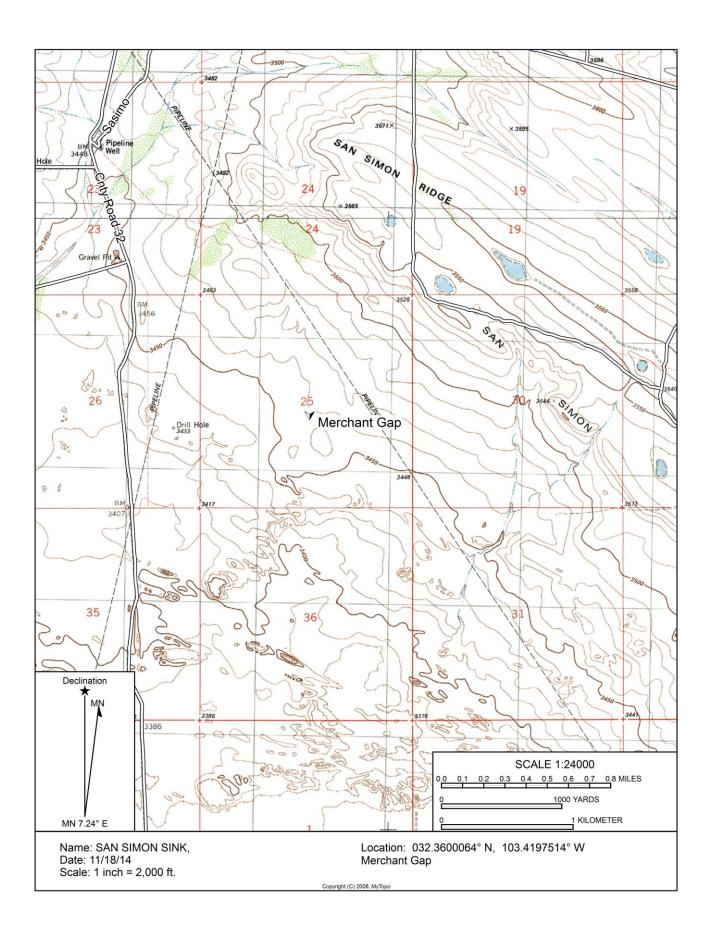
Appendix A – Analytical Results

Appendix B - C-141

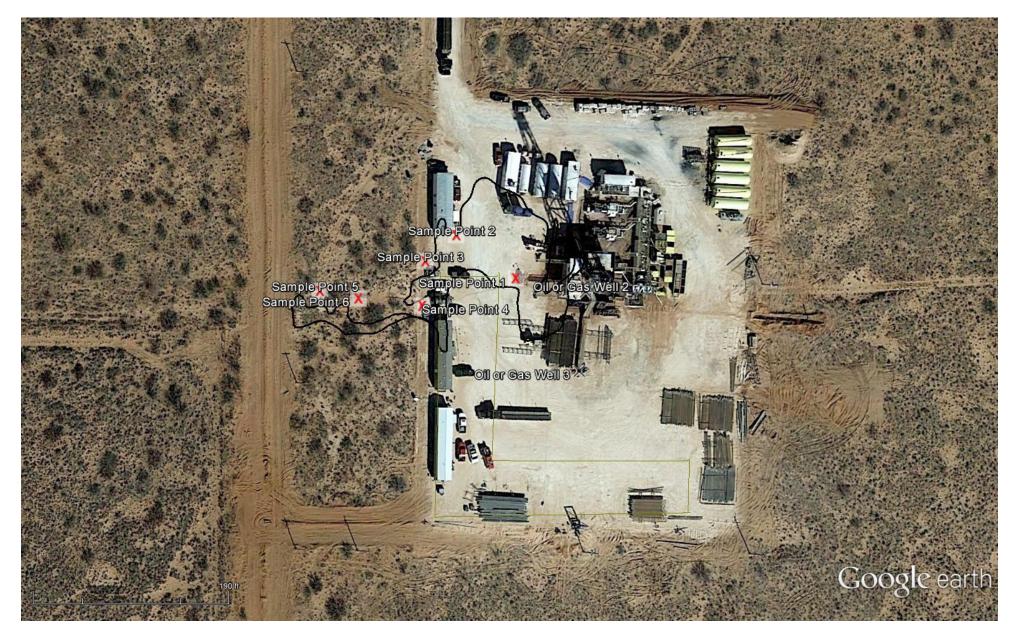
Appendix C – Site Photos

Appendix D – NMOSE Water Column/Average Depth to Water

# Figure 1 Vicinity Map



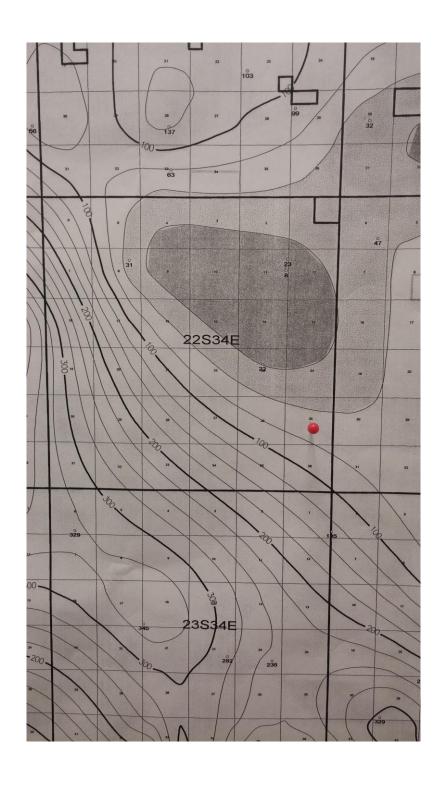
## Figure 2 Site Plan



Merchant Gap 25 State Com # 1 H

Merchant Gap 25 State Com #1H December 8, 2014 Mexico JMB Transport Lea County, New

## Figure 3 NMOCD Trend Map



## Appendix A Analytical Results

## Merchant Gap 25 State Com #1H December 8, 2014 Mexico

## JMB Transport Lea County, New



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

November 14, 2014

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: CRUDE OIL SPILL

Enclosed are the results of analyses for samples received by the laboratory on 11/12/14 10:05.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Page 1 of 9



## Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

 Received:
 11/12/2014

 Reported:
 11/14/2014

 Project Name:
 CRUDE OIL SPILL

 Project Number:
 JMB-14-001

 Project Location:
 LEA COUNTY

Sampling Date: 11/10/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

## Sample ID: TT-1 @ 1'6" (H403473-01)

BTEX 8021B	mg/kg		Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2014	ND	1.74	87.0	2.00	10.0	
Toluene*	0.067	0.050	11/13/2014	ND	1.65	82.6	2.00	10.2	
Ethylbenzene*	<0.050	0.050	11/13/2014	ND	1.61	80.5	2.00	10.3	
Total Xylenes*	<0.150	0.150	11/13/2014	ND	4.82	80.4	6.00	10.9	
Total BTEX	<0.300	0.300	11/13/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 61-154	ı						
TPH 8015M	mg/	kg	Analyze	Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/12/2014	ND	188	93.9	200	0.555	
DRO >C10-C28	<10.0	10.0	11/12/2014	ND	196	98.2	200	2.55	
Surrogate: 1-Chlorooctane	105 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	117 9	6 52.1-17	0						

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Celey D. Keene, Lab Director/Quality Manager

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## Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

 Received:
 11/12/2014

 Reported:
 11/14/2014

 Project Name:
 CRUDE OIL SPILL

 Project Number:
 JMB-14-001

 Project Location:
 LEA COUNTY

Sampling Date: 11/10/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

## Sample ID: TT-2 @ 2' (H403473-02)

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	11/13/2014	ND	1.74	87.0	2.00	10.0	
0.108	0.050	11/13/2014	ND	1.65	82.6	2.00	10.2	
<0.050	0.050	11/13/2014	ND	1.61	80.5	2.00	10.3	
<0.150	0.150	11/13/2014	ND	4.82	80.4	6.00	10.9	
<0.300	0.300	11/13/2014	ND					
	<0.050 <b>0.108</b> <0.050 <0.150	<0.050 0.050 <b>0.108</b> 0.050 <0.050 0.050 <0.150 0.150	<0.050 0.050 11/13/2014 0.108 0.050 11/13/2014 <0.050 0.050 11/13/2014 <0.050 0.150 11/13/2014	<0.050 0.050 11/13/2014 ND  0.108 0.050 11/13/2014 ND  <0.050 0.050 11/13/2014 ND  <0.050 0.150 11/13/2014 ND	<0.050 0.050 11/13/2014 ND 1.74 <b>0.108</b> 0.050 11/13/2014 ND 1.65 <0.050 0.050 11/13/2014 ND 1.61 <0.150 0.150 11/13/2014 ND 4.82	<0.050	<0.050	<0.050

Surrogate: 4-Bromofluorobenzene (PID	98.4	% 61-154							
TPH 8015M	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	85.6	10.0	11/12/2014	ND	188	93.9	200	0.555	
DRO >C10-C28	143	10.0	11/12/2014	ND	196	98.2	200	2.55	

 Surrogate: 1-Chlorooctane
 114 %
 47.2-157

 Surrogate: 1-Chlorooctadecane
 127 %
 52.1-176

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## Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received: 11/12/2014 Reported: 11/14/2014 Project Name: CRUDE OIL SPILL Project Number: JMB-14-001 LEA COUNTY Project Location:

Sampling Date: 11/10/2014 Sampling Type: Sampling Condition: Sample Received By:

Soil Cool & Intact Celey D. Keene

Sample ID: TT-3 @ 3' 6" (H403473-03)

BTEX 8021B	mg/kg		Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2014	ND	1.74	87.0	2.00	10.0	
Toluene*	<0.050	0.050	11/13/2014	ND	1.65	82.6	2.00	10.2	
Ethylbenzene*	<0.050	0.050	11/13/2014	ND	1.61	80.5	2.00	10.3	
Total Xylenes*	<0.150	0.150	11/13/2014	ND	4.82	80.4	6.00	10.9	
Total BTEX	<0.300	0.300	11/13/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.7	% 61-154	1						
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/12/2014	ND	188	93.9	200	0.555	
DRO >C10-C28	11.7	10.0	11/12/2014	ND	196	98.2	200	2.55	
Surrogate: 1-Chlorooctane	110 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	1239	% 52.1-17	ń						

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Celey D. Keene, Lab Director/Quality Manager

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\*=Accredited Analyte



## Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

 Received:
 11/12/2014

 Reported:
 11/14/2014

 Project Name:
 CRUDE OIL SPILL

 Project Number:
 JMB-14-001

 Project Location:
 LEA COUNTY

129 %

52.1-176

Sampling Date: 11/10/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

## Sample ID: TT-4 @ 11' 8" (H403473-04)

BTEX 8021B	mg/kg		Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2014	ND	1.74	87.0	2.00	10.0	
Toluene*	<0.050	0.050	11/13/2014	ND	1.65	82.6	2.00	10.2	
Ethylbenzene*	<0.050	0.050	11/13/2014	ND	1.61	80.5	2.00	10.3	
Total Xylenes*	<0.150	0.150	11/13/2014	ND	4.82	80.4	6.00	10.9	
Total BTEX	<0.300	0.300	11/13/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 61-154	1						
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/12/2014	ND	188	93.9	200	0.555	
DRO >C10-C28	<10.0	10.0	11/12/2014	ND	196	98.2	200	2.55	
Surrogate: 1-Chlorooctane	116 9	% 47.2-15	7						

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Surrogate: 1-Chlorooctadecane

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## Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

 Received:
 11/12/2014

 Reported:
 11/14/2014

 Project Name:
 CRUDE OIL SPILL

 Project Number:
 JMB-14-001

 Project Location:
 LEA COUNTY

Sampling Date: 11/10/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

## Sample ID: TT-5 @ 5' 6" (H403473-05)

BTEX 8021B	mg/kg		Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2014	ND	1.74	87.0	2.00	10.0	
Toluene*	<0.050	0.050	11/13/2014	ND	1.65	82.6	2.00	10.2	
Ethylbenzene*	<0.050	0.050	11/13/2014	ND	1.61	80.5	2.00	10.3	
Total Xylenes*	<0.150	0.150	11/13/2014	ND	4.82	80.4	6.00	10.9	
Total BTEX	<0.300	0.300	11/13/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 61-154	!						
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	11/12/2014	ND	188	93.9	200	0.555	
DRO >C10-C28	<10.0	10.0	11/12/2014	ND	196	98.2	200	2.55	
Surrogate: 1-Chlorooctane	117 9	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	129	6 52.1-17	ő						

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Celey D. Keene, Lab Director/Quality Manager

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## Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

 Received:
 11/12/2014

 Reported:
 11/14/2014

 Project Name:
 CRUDE OIL SPILL

 Project Number:
 JMB-14-001

 Project Location:
 LEA COUNTY

Sampling Date: 11/10/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: TT-6 @ 2' 6" (H403473-06)

BTEX 8021B	mg/kg		Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/13/2014	ND	1.74	87.0	2.00	10.0	
Toluene*	<0.050	0.050	11/13/2014	ND	1.65	82.6	2.00	10.2	
Ethylbenzene*	<0.050	0.050	11/13/2014	ND	1.61	80.5	2.00	10.3	
Total Xylenes*	<0.150	0.150	11/13/2014	ND	4.82	80.4	6.00	10.9	
Total BTEX	<0.300	0.300	11/13/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 61-154	1						
TPH 8015M	mg/	kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	11/12/2014	ND	188	93.9	200	0.555	
DRO >C10-C28	<10.0	10.0	11/12/2014	ND	196	98.2	200	2.55	
Surrogate: 1-Chlorooctane	118 9	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	130 9	% 52.1-17	-						

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RASE that case the case of the second second

Celecy D. Keena

Celey D. Keene, Lab Director/Quality Manager

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## **Notes and Definitions**

ND	Analyte NOT DET	TECTED 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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Sampler Helinquis Relinquished By: 1 Delivered By: 1 Sampler - UPS -	Aging the section of	66	<u>-</u> ω	7-	Lab I.D. Hu03473	FOR THE SERVICE CHITA	Project Location:	Project #: JM	Phone #:	Address:	Project Manager:	Company Name:	AR
Sampler - UPS - Bus - Other:	NEXAS POTE I bidgy or belonged exchange bidgets and allows whereal to not related the bard to be determined by the collection of the application o	17-60 26"		1-10 1.6	Sample I.D.	KDHWA YAM 3	V- 6	14-061	575-397-0510 Fax#;	st Clinto		co.	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476
Repetived By  Temp. Sample Condition  Coop Interes	en einrad jar niệt chiến dood giác doo doo doo doo doo doo doo doo doo do	27		77	(G)RAB OR (C)ON # CONTAINERS GROUNDWATER WASTEWATER SOIL	P MATRIX	640 35 St Com	Project Owner: JMB Transport	575-393-4388	7 10 2		ntal Solutions, Inc.	RIES M 88240 393-2476
Bopple Condition CHECKED BY:  Cool hung:  (in the second s	dechest or test, and be finded in the agrantic plant agrant by Castlin within 30 days a control by Castlin within 30 days as the cast at the cast pools because it is	11.01.11 N.01.12	h-10-11	NOTE A	SLUDGE OTHER: ACID/BASE: ICE/'COOL OTHER: DATE	RESERV SAMPLING	/H Phone #:	City:	Address	Company; Same	P.6.#.	THE BUILT OF SECTION ASSESSMENT	10
Philippe Result: Diges Fax Result: Diges Fax Result: Diges REMARKS: Fixed: J. Storthe eva Lipectal dia sessi-tumo. Co	he de la servicio de la septembra de la septem	3.25pm / V			TIME TO AL		15						CHAIN-OF-CUST
Dito Addition #:	Tents and Constitution  Tents and Constitution  To try past due at the re-  and all each of colection											ANALYSIS RE	CHAIN-OF-CUSTODY AND ANALY
ballen@sesi-um.com	The thrivest will be drawing as the december most their trained of \$25 per minut from the ediplast date of brocks, from training most per his best.		000								/	REQUEST	(SIS REQUEST

# Confirmation Analytical Results



December 05, 2014

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: JMB MERCHANT GAP 25

Enclosed are the results of analyses for samples received by the laboratory on 12/02/14 8:00.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Page 1 of 12



## Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

 Received:
 12/02/2014

 Reported:
 12/05/2014

 Project Name:
 JMB MERCHANT GAP 25

 Project Number:
 JMB-14-001

 Project Location:
 LEA COUNTY, NM

Sampling Date: 11/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

## Sample ID: C-SP-1 5' BGS (H403668-01)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2014	ND	1.91	95.5	2.00	2.41	
Toluene*	<0.050	0.050	12/04/2014	ND	1.89	94.5	2.00	1.78	
Ethylbenzene*	<0.050	0.050	12/04/2014	ND	1.81	90.4	2.00	2.07	
Total Xylenes*	<0.150	0.150	12/04/2014	ND	5.55	92.6	6.00	2.16	
Total BTEX	<0.300	0.300	12/04/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 61-154	!						
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/02/2014	ND	196	98.1	200	5.01	
DRO >C10-C28	<10.0	10.0	12/02/2014	ND	200	99.9	200	8.07	
Surrogate: 1-Chlorooctane	121 9	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	141 9	52.1-17	ő						

Cardinal Laboratories \*=Accredited Analyte

PLASE NOTE: Likelity and Damages. Cardina's licelity and cellular equal representations, whether based in contract to fix, state for the service, in tental to the annual paid by client for anyloses. All dains, including these for consignated and any other case whether services and to enter the cardinal element wheels element element element of the source internation or otherwise.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 12



## Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

 Received:
 12/02/2014

 Reported:
 12/05/2014

 Project Name:
 JMB MERCHANT GAP 25

 Project Number:
 JMB-14-001

 Project Location:
 LEA COUNTY, NM

Sampling Date: 11/25/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

## Sample ID: C-SP-2 5' BGS (H403668-02)

BTEX 8021B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2014	ND	1.91	95.5	2.00	2.41	
Toluene*	< 0.050	0.050	12/04/2014	ND	1.89	94.5	2.00	1.78	
Ethylbenzene*	<0.050	0.050	12/04/2014	ND	1.81	90.4	2.00	2.07	
Total Xylenes*	<0.150	0.150	12/04/2014	ND	5.55	92.6	6.00	2.16	
Total BTEX	< 0.300	0.300	12/04/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID	102	% 61-154							
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/02/2014	ND	196	98.1	200	5.01	
DRO >C10-C28	<10.0	10.0	12/02/2014	ND	200	99.9	200	8.07	
Surrogate: 1-Chlorooctane	128	% 47.2-15	7						

 Surrogate: 1-Chlorooctane
 128 %
 47.2-157

 Surrogate: 1-Chlorooctadecane
 145 %
 52.1-176

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 12



PHONE (575) 393-2326  $^{\circ}$  101 E. MARLAND  $^{\circ}$  HOBBS, NM 88240

### Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

 Received:
 12/02/2014

 Reported:
 12/05/2014

 Project Name:
 JMB MERCHANT GAP 25

 Project Number:
 JMB-14-001

 Project Location:
 LEA COUNTY, NM

Sampling Date: 12/01/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

## Sample ID: D-SP-1 2.5' BGS (H403668-03)

BTEX 8021B	mg,	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2014	ND	1.91	95.5	2.00	2.41	
Toluene*	<0.050	0.050	12/04/2014	ND	1.89	94.5	2.00	1.78	
Ethylbenzene*	<0.050	0.050	12/04/2014	ND	1.81	90.4	2.00	2.07	
Total Xylenes*	<0.150	0.150	12/04/2014	ND	5.55	92.6	6.00	2.16	
Total BTEX	<0.300	0.300	12/04/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 61-154	!						
TPH 8015M	mg,	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/02/2014	ND	196	98.1	200	5.01	
DRO >C10-C28	162	10.0	12/02/2014	ND	200	99.9	200	8.07	
Surrogate: 1-Chlorooctane	125	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	146	% 52.1-17	6						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 4 of 12



PHONE (575) 393-2326  $^{\circ}$  101 E. MARLAND  $^{\circ}$  HOBBS, NM 88240

## Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

 Received:
 12/02/2014

 Reported:
 12/05/2014

 Project Name:
 JMB MERCHANT GAP 25

 Project Number:
 JMB-14-001

 Project Location:
 LEA COUNTY, NM

Sampling Date: 12/01/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

## Sample ID: D-SP-2 2.5' BGS (H403668-04)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2014	ND	1.91	95.5	2.00	2.41	
Toluene*	<0.050	0.050	12/04/2014	ND	1.89	94.5	2.00	1.78	
Ethylbenzene*	<0.050	0.050	12/04/2014	ND	1.81	90.4	2.00	2.07	
Total Xylenes*	<0.150	0.150	12/04/2014	ND	5.55	92.6	6.00	2.16	
Total BTEX	<0.300	0.300	12/04/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	61-154	1						
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/02/2014	ND	196	98.1	200	5.01	
DRO >C10-C28	<10.0	10.0	12/02/2014	ND	200	99.9	200	8.07	
Surrogate: 1-Chlorooctane	124 9	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	1399	6 52.1-17	6						

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Celey D. Keene, Lab Director/Quality Manager

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## Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

 Received:
 12/02/2014

 Reported:
 12/05/2014

 Project Name:
 JMB MERCHANT GAP 25

 Project Number:
 JMB-14-001

 Project Location:
 LEA COUNTY, NM

Sampling Date: 12/01/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

## Sample ID: D-SP-3 2.5' BGS (H403668-05)

BTEX 8021B	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2014	ND	1.91	95.5	2.00	2.41	
Toluene*	<0.050	0.050	12/04/2014	ND	1.89	94.5	2.00	1.78	
Ethylbenzene*	<0.050	0.050	12/04/2014	ND	1.81	90.4	2.00	2.07	
Total Xylenes*	<0.150	0.150	12/04/2014	ND	5.55	92.6	6.00	2.16	
Total BTEX	<0.300	0.300	12/04/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID	102	% 61-154							
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/02/2014	ND	196	98.1	200	5.01	
DRO >C10-C28	<10.0	10.0	12/02/2014	ND	200	99.9	200	8.07	

 Surrogate: 1-Chlorooctane
 124 %
 47.2-157

 Surrogate: 1-Chlorooctadecane
 136 %
 52.1-176

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Celecy D. Keena

Celey D. Keene, Lab Director/Quality Manager

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\*=Accredited Analyte



## Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

 Received:
 12/02/2014

 Reported:
 12/05/2014

 Project Name:
 JMB MERCHANT GAP 25

 Project Number:
 JMB-14-001

 Project Location:
 LEA COUNTY, NM

Sampling Date: 12/01/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

### Sample ID: D-SP-4 3' BGS (H403668-06)

8021B mg/kg		Analyze	d By: CK					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	12/04/2014	ND	1.91	95.5	2.00	2.41	
< 0.050	0.050	12/04/2014	ND	1.89	94.5	2.00	1.78	
<0.050	0.050	12/04/2014	ND	1.81	90.4	2.00	2.07	
<0.150	0.150	12/04/2014	ND	5.55	92.6	6.00	2.16	
<0.300	0.300	12/04/2014	ND					
	Result <0.050 <0.050 <0.050 <0.050 <0.150	Result Reporting Limit <0.050 0.050 <0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150	Result Reporting Limit Analyzed <0.050 0.050 12/04/2014 <0.050 0.050 12/04/2014 <0.050 0.050 12/04/2014 <0.050 0.050 12/04/2014 <0.150 0.150 12/04/2014	Result         Reporting Limit         Analyzed         Method Blank           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <0.050

TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/02/2014	ND	196	98.1	200	5.01	
DRO >C10-C28	44.1	10.0	12/02/2014	ND	200	99.9	200	8.07	

 Surrogate: 1-Chlorooctane
 124 %
 47.2-157

 Surrogate: 1-Chlorooctadecane
 139 %
 52.1-176

Cardinal Laboratories \*=Accredited Analyte

FLASE NOT East advanced to the same of the

Celecy D. Freene

Celey D. Keene, Lab Director/Quality Manager

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## Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

 Received:
 12/02/2014

 Reported:
 12/05/2014

 Project Name:
 JMB MERCHANT GAP 25

 Project Number:
 JMB-14-001

 Project Location:
 LEA COUNTY, NM

Sampling Date: 12/01/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

## Sample ID: D-SP-5 3' BGS (H403668-07)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2014	ND	1.91	95.5	2.00	2.41	
Toluene*	<0.050	0.050	12/04/2014	ND	1.89	94.5	2.00	1.78	
Ethylbenzene*	<0.050	0.050	12/04/2014	ND	1.81	90.4	2.00	2.07	
Total Xylenes*	<0.150	0.150	12/04/2014	ND	5.55	92.6	6.00	2.16	
Total BTEX	<0.300	0.300	12/04/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 61-154	!						
TPH 8015M	mg,	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/02/2014	ND	196	98.1	200	5.01	
DRO >C10-C28	<10.0	10.0	12/02/2014	ND	200	99.9	200	8.07	
Surrogate: 1-Chlorooctane	122	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	135	% 52.1-17	ő						

Cardinal Laboratories \*=Accredited Analyte

RASIC third case of the second process of th

Celeog D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 8 of 12



## Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

 Received:
 12/02/2014

 Reported:
 12/05/2014

 Project Name:
 JMB MERCHANT GAP 25

 Project Number:
 JMB-14-001

 Project Location:
 LEA COUNTY, NM

Sampling Date: 12/01/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

## Sample ID: D-NORTH WALL (H403668-08)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	12/04/2014	ND	1.91	95.5	2.00	2.41	
Toluene*	<0.050	0.050	12/04/2014	ND	1.89	94.5	2.00	1.78	
Ethylbenzene*	<0.050	0.050	12/04/2014	ND	1.81	90.4	2.00	2.07	
Total Xylenes*	<0.150	0.150	12/04/2014	ND	5.55	92.6	6.00	2.16	
Total BTEX	<0.300	0.300	12/04/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 61-154	1						
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	12/02/2014	ND	196	98.1	200	5.01	
DRO >C10-C28	<10.0	10.0	12/02/2014	ND	200	99.9	200	8.07	
Surrogate: 1-Chlorooctane	117 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	129 9	% 52.1-17	6						

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\*=Accredited Analyte

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Celecy D. Freena

Celey D. Keene, Lab Director/Quality Manager

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## Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

 Received:
 12/02/2014

 Reported:
 12/05/2014

 Project Name:
 JMB MERCHANT GAP 25

 Project Number:
 JMB-14-001

 Project Location:
 LEA COUNTY, NM

Sampling Date: 12/01/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

## Sample ID: D-SOUTH WALL (H403668-09)

BTEX 8021B	mg/kg		Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2014	ND	1.91	95.5	2.00	2.41	
Toluene*	<0.050	0.050	12/04/2014	ND	1.89	94.5	2.00	1.78	
Ethylbenzene*	<0.050	0.050	12/04/2014	ND	1.81	90.4	2.00	2.07	
Total Xylenes*	<0.150	0.150	12/04/2014	ND	5.55	92.6	6.00	2.16	
Total BTEX	<0.300	0.300	12/04/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID	102	% 61-154							
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/02/2014	ND	196	98.1	200	5.01	
DRO >C10-C28	<10.0	10.0	12/02/2014	ND	200	99.9	200	8.07	

 Surrogate: 1-Chlorooctane
 121 %
 47.2-157

 Surrogate: 1-Chlorooctadecane
 132 %
 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

RESER SOTTS: Usbilly and Damages. Contains 1888thy and dents enduring remark for any dam astrong, whether beard in context or lost, shall be initial to the amount post by clear for anylogies. All dams, including from the registers and any other cause whethere shall be deemed without or less made. In writing and received by Control within their, (I) days after complete environ. In no event shall Control be listed for included a consequential damages, including, without intelligence, loss of use, or loss of posts housest by Carton and any other shall be the performance of the services interruptions, but on the services interruptions, but on the services interruptions, but of use, or loss of posts housest by Carton and Services and the services and the performance of the services interruptions, but of use, and the services are serviced and the services and the services are serviced as a service and the services in the services are serviced as a service and the services are serviced as a service are serviced as a service are

Celecy D. Keene

Celey D. Keene, Lab Director/Quality Manager

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## **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

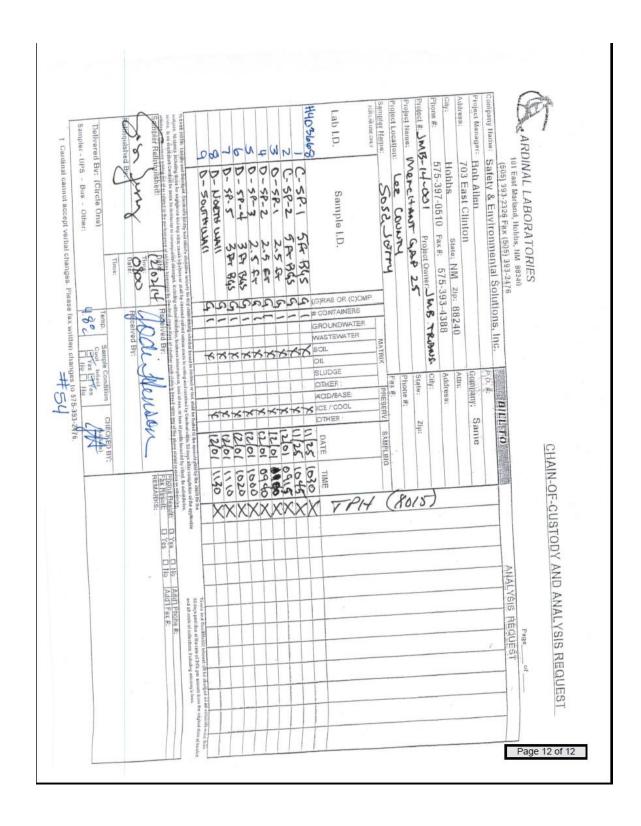
Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardian's liability and clients exclusive remark for any daim straing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All datine, including those for negligenost and any other cause whethere shall be deemed waved unless made in writing and recorded by Cardinal Writin Strift (SI) 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 use, or loss of profits incurred by client, is subsidiaries, affiliates or accessors arising out of or initiated to the performance of the services hereunder by Cardinal, inspection of whether such daim to been consequently as a profit of an analysis of the above stated missions or otherwise. Results relate only to be samples identified above. This report shall not be reproduced except in fall with written approval of Cardinal Liaborations.

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Celey D. Keene, Lab Director/Quality Manager

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## Appendix B C-141

## Merchant Gap 25 State Com #1H December 8, 2014 Mexico

## JMB Transport Lea County, New

811 S. First St., Art District III 1000 Rio Brazos Ro District IV 1220 S. St. Francis		88210				New Mex and Natura	al Resources			Form C Revised August 8,
District IV				Oi	l Conse	rvation Di	vision	Submit	1 Сору	to appropriate District Offi
220 S. St. Francis						h St. Franc			ac	ccordance with 19.15.29 NM
	Dr., Sant	a Fe, NM 8750	5		Santa F	e, NM 875	505			
			Rel	ease Noti	ficatio	n and C	orrective A	ction		
						OPERAT	OR	X	Initia	al Report
Name of Comp Address 1560	Broady	MT Explor	ation	or Co 90202	,	Contact B.		100		
Facility Name	Merch	ant Gap 25	Sate com	1H			No. 720-946-30 pe Oil Well	028		
Surface Owner	r State	of New Mex	cico	Minera	l Owner	State of Ne			A DI No	. 30-025-41450
				- × 5255					AFTINO	. 50-025-41450
Unit Letter   S	ection	Township	Range	Feet from the	-	N OF RE	Feet from the	East/Wes	t I ina	County
M	25	22S	34E	40	1.55	South	350	Wes		Lea
			La	titude N 32	21'19.93'	Longitud	le W 103 25°52	2.13"		
Type of Release	Oil			NA.	TURE	OF REL				
Source of Releas	se Oil H	auler fell asle	ep while l	oading and ove	rflowed		Release 40 bbls four of Occurrence			Recovered 40 bbls Est. Hour of Discovery
nis tank. Was Immediate ?					18020-03008	10/31/14 -	@ 0330 hrs	100		- @ 0700 hrs
was milliodiate j	Notice C		☐ Yes	No Not l	Required	If YES, To Tomas Ob				
By Whom? B.J.						Date and F	Hour 10/31/14 - 12	200	-	
Was a Watercour	rse Reac		Yes X	No			olume Impacting t		urse.	
f a Watercourse	ruos Tena									
During the loading	ng of Oil	for sales into	dial Action a truck, t	Taken.* he truck driver	fell asleep	, allowing his	tanker to overflo	w. The driv	ver has t	been permanently released fi
During the loadin auding oil from a Describe Area Al the majority of the onstructed well iffected areas to and the contamination of the hereby certify the gulations all op ublic health or the hould their opera fr the environment	ng of Oil any GM' ffected a the spill v pad. All confirm tated soil that the ir berators a the envira	for sales into T locations.  Ind Cleanup A was confined contaminate that all the cohauled to a proformation give required to ment. The we failed to a dittion, NMO	Action Tak to the surf on will be ontaminate oroper disp ven above o report an acceptanc dequately CD accept	en.* ace location be excavated until d soil has been osal facility. is true and con d/or file certain e of a C-141 re investigate and	etween the I no further removed.	well head and r evidence of At that point ne best of my otifications are 2 NMOCD ma	d tank battery. The contamination is to the contamination is to the contamination is to the contamination of the c	nere was son evident. So I will be bro inderstand the tive actions eport" does in	ne conta il sampl ught in nat pursu for rele	amination just off of the es will then be taken from to replace what was remove that to NMOCD rules and asses which may endanger eve the operator of liability surface water, human health impliance with any other
Describe Area Al The majority of the Constructed well a ffected areas to a and the contamina thereby certify the egulations all op public health or th should their opera or the environmer federal, state, or le	ng of Oil any GM' ffected a the spill v pad. All confirm tated soil that the ir berators a the envira	for sales into T locations.  Ind Cleanup A was confined contaminate that all the cohauled to a proformation give required to ment. The we failed to a dittion, NMO	Action Tak to the surf on will be ontaminate oroper disp ven above o report an acceptanc dequately CD accept	en.* ace location be excavated until d soil has been osal facility. is true and con d/or file certain e of a C-141 re investigate and	etween the I no further removed.	well head and r evidence of At that point ne best of my otifications are 2 NMOCD ma	d tank battery. The contamination is to the contamination is to the contamination is to the contamination of the c	nere was son evident. So I will be bro inderstand the tive actions eport" does a eat to ground esponsibility	ne contail sampl ught in nat pursu for rele- not relied d water, y for co	amination just off of the tes will then be taken from to replace what was remove that to NMOCD rules and asses which may endanger the operator of liability surface water, human health impliance with any other
During the loadin nauling oil from a Describe Area Af The majority of the constructed well affected areas to and the contamination of t	ng of Oil any GM ffected a the spill v pad. All confirm tated soil that the ir erators a the environations hant. In ad- local law	for sales into T locations.  Ind Cleanup A was confined contaminate that all the cohauled to a proformation give required to ment. The we failed to a dittion, NMO	Action Tak to the surf on will be ontaminate oroper disp ven above o report an acceptanc dequately CD accept	en.* ace location be excavated until d soil has been osal facility. is true and con d/or file certain e of a C-141 re investigate and	etween the I no further removed. Implete to the n release no poor by the firemediate	well head and r evidence of At that point he best of my otifications are E NMOCD me e contamination boes not relieve	d tank battery. The contamination is a large contamination is a large contamination is a large contamination of the contamination of th	nere was son evident. So will be bro inderstand the tive actions eport" does tat to ground esponsibility	ne contail sampl ught in nat pursu for rele- not relied d water, y for co	amination just off of the tes will then be taken from to replace what was remove that to NMOCD rules and asses which may endanger the operator of liability surface water, human health impliance with any other
Dering the loadin and ingoing of the mailing oil from a Describe Area Al The majority of the Constructed well offected areas to and the contamination of the	ng of Oil any GM ffected a she spill when spill spi	for sales into T locations.  Ind Cleanup A was confined to contamination that all the conhauled to a particular to a particular to the comment. The two failed to a didition, NMO is and/or reguired.	Action Tak to the surf on will be ontaminate oroper disp ven above o report an acceptanc dequately CD accept	en.* ace location be excavated until d soil has been osal facility. is true and con d/or file certain e of a C-141 re investigate and	etween the I no further removed. Implete to the n release no poor by the firemediate	well head and r evidence of At that point he best of my otifications are E NMOCD me e contamination boes not relieve	d tank battery. The contamination is a clean native soil knowledge and und perform correcarked as "Final Re on that pose a thre e the operator of r	nere was son evident. So will be bro inderstand the tive actions eport" does tat to ground esponsibility	ne contail sampl ught in nat pursu for rele- not relied d water, y for co	amination just off of the tes will then be taken from to replace what was remove that to NMOCD rules and asses which may endanger the operator of liability surface water, human health impliance with any other
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During the loadin nauling oil from a Describe Area Al The majority of the constructed well offected areas to and the contamination of t	ng of Oil any GM  ffected a the spill v pad. All confirm thated soil that the ir the rators a the envir attions ha nt. In ad local law  over the converting to the converting to the that the ir the rators a the envir that the ir the rators a the converting to the the rators a the rators a the rators a the r	for sales into T locations.  Ind Cleanup A was confined to contamination that all the conhauled to a particular to a particula	Action Tak to the surfuce on will be on will be ontaminate or oper disp ven above or report an acceptance dequately CD acceptance dequately conserved.	en.* ace location be excavated until d soil has been osal facility. is true and con d/or file certain e of a C-141 re investigate and	etween the no further removed.  In plete to the normal removed of the normal removed.  It removes the normal removed of the normal removed of the normal removed of the normal removes the normal removed of the normal remo	well head and revidence of At that point the best of my otifications are NMOCD me e contamination of the contamina	d tank battery. The contamination is a clean native soil knowledge and und perform correctanced as "Final Re on that pose a three the operator of roll CONSE	nere was some evident. So I will be bro inderstand the titive actions eport" does is esponsibility SERVAT	ne contail samplught in hat pursu for releind water, y for co	amination just off of the tes will then be taken from to replace what was remove to the taken from to replace what was remove to NMOCD rules and asses which may endanger ever the operator of liability surface water, human health impliance with any other DIVISION

## Appendix C Site Photographs







































































# Appendix D NMOSE Water Column/Average Depth to Water



(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a

water right file.)

(R=POD has been replaced, O=orphaned,

C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

	POD Sub-	Q	Q	Q	1900	ir II		1	T White	Depth	Depth	Water
POD Number	Code basin Coun	ty 64	16	4	Sec	Tws	Rng	X	Y Y	Well	Water	Column
CP 00380	LE		4	2	11	228	34E	647245	3586739*	45	30	15
CP 00596	LE		4	2	11	228	34E	647245	3586739*	50		
CP.00597	LE		2	2	80	228	34E	642410	3587074*	35		
CP 00598	LE		4	1	23	228	34E	646480	3583511*	70		
CP 00599	LE		1	1	12	228	34E	647642	3587147*	62	50	12
CP 00604	LE	1	4	4	01	228	34E	648743	3587666* 🦣	135		
CP 00704	LE		2	4	22	228	34E	645681	3583097* 🧓	600		
CP 00744	LE		1	2	09	228	34E	643618	3587091*	460		
CP 00751	LE		4	2	11	228	34E	647245	3586739*		45	
CP 00865	LE	4	1	3	20	228	34E	641957	3583146 🥡	885	605	280
CP 00933	LE	1	1	1	12	22\$	34E	647541	3587246*	60		
CP 00934	LE	2	1	2	01	228	34E	648682	3588822 🦓	60	42	18

Average Depth to Water: 154 feet

Minimum Depth:

Maximum Depth: 605 feet

30 feet

Record Count: 12

Basin/County Search:

County: Lea PLSS Search:

Township: 22S

Range: 34E

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a

water right file.)

(R=POD has been replaced, O=orphaned,

C=the file is (quarters are 1=NW 2=NE 3=SW 4=SE) closed)

(quarters are smallest to largest) (NAD83 UTM in meters)

	,	* *				3	1	0 mm mmotoro)		(iii leet)	
	POD Sub-	o	0	0					Donth	Depth Wate	
POD Number	Code basin Co			C-200000	Tws	Rng	X	Y		Water Colum	
CP 00593		LE	4 4	4 06	228	35E	650422	3587591*	62		potential
CP 00594	1	LE	2	1 34	22S	35E	654553	3580819* 🌑	98		
CP 00595		LE	2 2	2 20	228	35E	652089	3584000*	96		
CP 00753		LE	2 2	2 14	228	35E	656891	3585687*	215	185 3	30

Average Depth to Water: 185 feet

Minimum Depth: 185 feet

Maximum Depth: 185 feet

Record Count: 4

PLSS Search:

Township: 22S

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a

water right file.)

(R=POD has been replaced, O=orphaned,

C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

ALC: FILL	POD Sub-	Q	Q Q						Denth	Depth	Water
POD Number	Code basin Cour	ty 64	16 4	Sec	Tws	Rng	Х	ΗY	COCCURRENCE AND ADDRESS OF THE	Charles Services	Column
C 03620 POD1	C LE	1	4 3	32	238	34E	641790	3569941 🍣	480	130	350
CP 00556	LE	4	4 3	80	238	34E	641762	3576206 🥮	497	255	242
CP 00580	LE	3	4 3	23	238	34E	646524	3572948*	220		
CP 00606	LE		4 1	23	238	34E	646613	3573854* 🎒	650	265	385
CP 00618	LE	1	2 4	22	238	34E	645713	3573539* 🌑	428	295	133
CP 00637	LE	3	3 4	15	238	34E	645293	3574541*	430	430	0
CP 00872	LE	1	1 1	80	238	34E	641225	3577504* 🌑	500	305	195
CP 01120 POD1	LE	2	3 3	14	238	34E	646366	3574753 🌑	397	318	79
CP 01258 POD1	LE	1	4 3	22	238	34E	645015	3573221 🦓	25		
CP 01258 POD2	LE	1	4 3	22	238	34E	644941	3572883 🦤	65		
CP 01258 POD3	LE	1	4 3	22	238	34E	644941	3572883 🦓	25		

Average Depth to Water: 285 feet

Minimum Depth: 130 feet

Maximum Depth: 430 feet

Record Count: 11

Basin/County Search:

County: Lea

PLSS Search:

Township: 23S

Range: 34E

\*UTM location was derived from PLSS - see Help

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(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned,

C=the file is (quarters

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

	POD			200	36	. 30			A Const	· Calling	1546 17967
	Sub-	4.3	a a	a						Depth	Depth Water
POD Number	Code basin Cou	unty	64 16	4	Sec	Tws	Rng	X	Y	Well	Water Column
CP 00499	LI	E	3	3	23	238	35E	655875	3573194* 🌑	150	
CP 00568	Ц	E	2 2	4	09	238	35E	653908	3576878* 🦥	875	
CP 00843	L	E	4	2	36	238	35E	658729	3570823* 🌑	250	

Average Depth to Water:

Minimum Depth: --

Maximum Depth: -

Record Count: 3

Basin/County Search:

County: Lea

PLSS Search:

Township: 23S

Range: 35E

\*UTM location was derived from PLSS - see Help

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Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Action 419774

#### **CONDITIONS**

Operator:	OGRID:
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	419774
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

#### CONDITIONS

Created	Condition	Condition	İ
Ву		Date	ĺ
bhall	historical documentation uploaded	1/13/2025	