



May 14, 2015

Mr. Mike Bratcher
NMOCD District 2

811 S. 1st Street
Artesia, NM 88210

AMARILLO

921 North Bivins

Amarillo, Texas 79107

Phone 806.467.0607

Fax 806.467.0622

Subject: **Soil Assessment and Remediation Work Plan**
Oxy USA Inc.
Peaches 19 Federal #1 CTB
30-015-40250

ARTESIA

408 West Texas Ave.

Artesia, New Mexico 88210

Phone 575.746.8768

Fax 575.746.8905

Dear Mr. Bratcher,

Oxy USA Inc. (Oxy) as contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

HOBBS

318 East Taylor Street

Hobbs, New Mexico 88240

Phone 575.393.4261

Fax 575.393.4658

Incident Date

The date of release was April 20, 2015

MIDLAND

2901 State Hwy 349

Midland, Texas 79706

Phone 432.522.2133

Fax 432.522.2180

Background Information

The Peaches 19 Federal #1 CTB release is located approximately thirty-four (34) miles south of Carlsbad, New Mexico. The legal location for the site is Section 19, Township 25S, Range 27E in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.121770 North and -104.228370 West. A site plan is presented in [Appendix I](#).

OKLAHOMA CITY

7700 North Hudson Avenue

Suite 10

Oklahoma City, Oklahoma 73116

Phone 405.486.7030

Fax 806.467.0622

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Reagan-Upton association with 0 to 9 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology, Quaternary Age sedimentary deposits, is comprised of alluvial fans and eolian deposits which include alluvium and very gravelly loamy soils underlain by petrocalcic cemented hard caliches. Drainage courses in this area are normally dry. The New Mexico State Engineer web site indicates the nearest ground water data to be in S20-T25S-R27E. The ground water well in Section 20 appears to 351' below ground surface (bgs) and dry. However, the 2005 Chevron/Texaco Water Trend map shows there to be a well in the vicinity of section 20 to be 19-feet to groundwater. The referenced groundwater data is presented in [Appendix II](#).

SAN ANTONIO

13111 Lookout Way

San Antonio, Texas 78233

Phone 210.265.8025

Fax 210.568.2191

The ranking for this site is **20** Based on the following:

ENVIRONMENTAL CONSULTING

ENGINEERING

DRILLING

CONSTRUCTION

SPILL MANAGEMENT

GENERAL CONTRACTING

Depth to ground water	<50'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

Incident Description

The valve on load line was opened by vandals causing a release of 20 barrels of produced water on location at the load out. The impacted area surrounding the produced water load out measured approximately 60-feet by 40-feet. All fluids stayed on location. Talon mobilized personnel to conduct a site assessment and perform soil sampling activities at the location. Laboratory results from the soil sampling event are summarized in the table below.

All soil samples were collected by Talon personnel wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, and volatile organics (BTEX) using EPA Method 8021B. The chloride samples were analyzed per Method SM4500Cl-B.

Laboratory Results

See [Appendix III](#) for complete report of laboratory results.

April 27, 2015

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0'	<0.300	13200	<10	151
	1'	<0.300	2520	<10	<10
	2'	<0.300	1600	<10	<10
	3'	<0.300	304	<10	<10
S-2	0'	<0.300	14700	<10	35.3
	1'	<0.300	640	<10	<10

Based upon the site ranking of **20**, NMOCD Recommended Remedial Action Levels (RRAL's) are 50 mg/kg for BTEX, 10 mg for Benzene, and 100 mg/kg for TPH.

Proposed Remedial Actions

- The impacted area in the vicinity of sample point S-1 will be excavated to a depth of 3-feet deep and the impacted area around S-2 will be excavated to a depth of 1-feet.
- The excavated area will be backfilled with new top soil transported from Lea Land, LLC. The area will be contoured to match the surrounding location.
- A final closure report documenting all remedial actions and analytical results will be provided to the BLM and NMOCD office in Artesia, along with the Final Form C-141.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

Respectfully submitted,

TALON/LPE



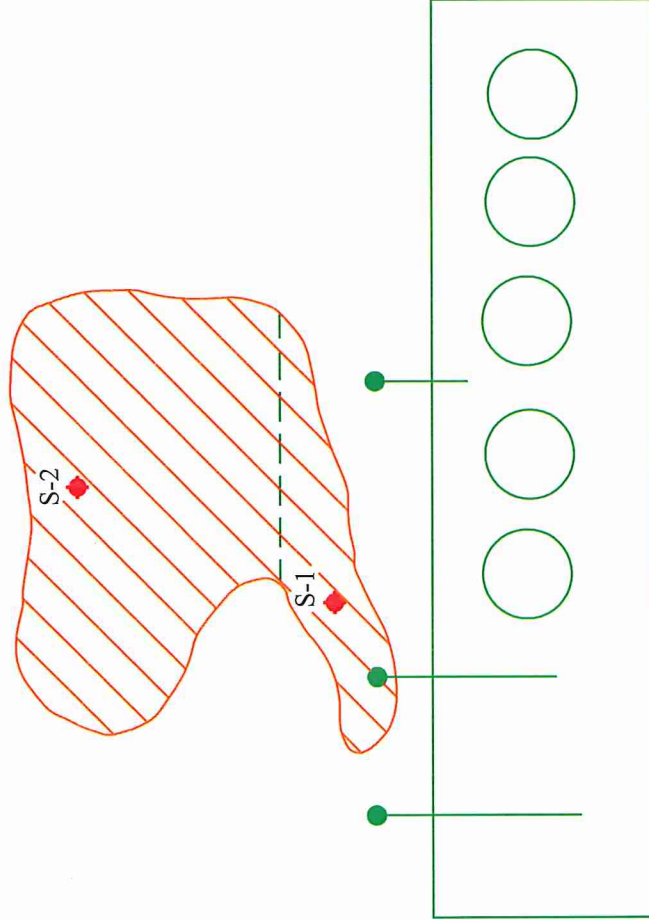
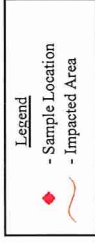
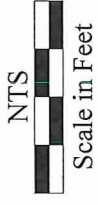
Kimberly M. Wilson
Project Manager



David J. Adkins
District Manager

APPENDIX I

SITE MAP



Peaches 19 CTB
Oxy - NM - North
Eddy County, New Mexico
Figure 1 - Site Plan

Date: 05/04/2015

Scale: NTS

Drawn By: TJS



APPENDIX II
GROUNDWATER DATA
INITIAL C-141



New Mexico Office of the State Engineer

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 Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 03261 POD1			ED	3	2	1	20	25S	27E	574007	3554006*	1112	351		
C 03654 POD1		CUB	ED	2	3	1	24	25S	26E	570654	3553773	2266			

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 2

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 572898

Northing (Y): 3554093

Radius: 2500

*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.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: OXY USA INC	Contact: Chris Jones	
Address: 102 S. Main St. Carlsbad, NM 88220	Telephone No.: 575-628-4121	
Facility Name: Peaches 19 Federal #1H SWD	Facility Type: SWD CTB	
Surface Owner: Federal	Mineral Owner:	API No.: 30-015-40250

LOCATION OF RELEASE

Unit Letter B	Section 19	Township 25S	Range 27E	Feet from the 330'	North/South Line North	Feet from the 2310'	East/West Line East	County Eddy
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Latitude **32.12176598 N** Longitude **-104.22836714 W**

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 20 bbls PW	Volume Recovered: Unknown
Source of Release: Vandals/Human Error open load Line	Date and Hour of Occurrence 4/20/2015	Date and Hour of Discovery 4/20/2015
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom? Kimberly Wilson	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken: **The valve on load line was opened by vandals causing a release of 20 barrels of produced water on location at the load out.**

Describe Area Affected and Cleanup Action Taken.* **The impacted area surrounding the produced water load out measuring approximately 60' x 40'. All fluids stayed on location. Talon/LPE has already performed site assessment and soil sampling activities. Waiting on lab results.**

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

OIL CONSERVATION DIVISION

Signature:

Printed Name: **Chris Jones**

Title: **HES Specialist**

E-mail Address: **Christopher.Jones@oxy.com**

Date: **4/28/2015**

Phone: **575-628-4121**

Approved by Environmental Specialist:

Approval Date:

Expiration Date:

Conditions of Approval:

Attached ☐

* Attach Additional Sheets If Necessary

APPENDIX III
LABORATORY RESULTS

April 27, 2015

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: PEACHES 19 CTB

Enclosed are the results of analyses for samples received by the laboratory on 04/23/15 14:30.

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

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 04/23/2015
Reported: 04/27/2015
Project Name: PEACHES 19 CTB
Project Number: 70060844301
Project Location: EDDY COUNTY, NM

Sampling Date: 04/22/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 0' (H501054-01)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2015	ND	2.05	103	2.00	2.65	
Toluene*	<0.050	0.050	04/24/2015	ND	1.88	93.9	2.00	0.287	
Ethylbenzene*	<0.050	0.050	04/24/2015	ND	1.76	88.2	2.00	0.848	
Total Xylenes*	<0.150	0.150	04/24/2015	ND	5.65	94.1	6.00	1.11	
Total BTEX	<0.300	0.300	04/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13200	16.0	04/24/2015	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/23/2015	ND	208	104	200	0.0576	
DRO >C10-C28	151	10.0	04/23/2015	ND	222	111	200	1.11	

Surrogate: 1-Chlorooctane 79.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 80.0 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 04/23/2015
Reported: 04/27/2015
Project Name: PEACHES 19 CTB
Project Number: 70060844301
Project Location: EDDY COUNTY, NM

Sampling Date: 04/22/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 1' (H501054-02)

BTEX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2015	ND	2.05	103	2.00	2.65	
Toluene*	<0.050	0.050	04/24/2015	ND	1.88	93.9	2.00	0.287	
Ethylbenzene*	<0.050	0.050	04/24/2015	ND	1.76	88.2	2.00	0.848	
Total Xylenes*	<0.150	0.150	04/24/2015	ND	5.65	94.1	6.00	1.11	
Total BTEX	<0.300	0.300	04/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2520	16.0	04/24/2015	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/24/2015	ND	205	103	200	1.77	
DRO >C10-C28	<10.0	10.0	04/24/2015	ND	217	109	200	2.47	

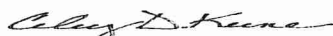
Surrogate: 1-Chlorooctane 96.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 91.7 % 52.1-176

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 04/23/2015
 Reported: 04/27/2015
 Project Name: PEACHES 19 CTB
 Project Number: 70060844301
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/22/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 2' (H501054-03)

BTX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2015	ND	2.05	103	2.00	2.65	
Toluene*	<0.050	0.050	04/24/2015	ND	1.88	93.9	2.00	0.287	
Ethylbenzene*	<0.050	0.050	04/24/2015	ND	1.76	88.2	2.00	0.848	
Total Xylenes*	<0.150	0.150	04/24/2015	ND	5.65	94.1	6.00	1.11	
Total BTX	<0.300	0.300	04/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	04/24/2015	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/24/2015	ND	205	103	200	1.77	
DRO >C10-C28	<10.0	10.0	04/24/2015	ND	217	109	200	2.47	

Surrogate: 1-Chlorooctane 98.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 94.3 % 52.1-176

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*=Accredited Analyte

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DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 04/23/2015
Reported: 04/27/2015
Project Name: PEACHES '19 CTB
Project Number: 70060844301
Project Location: EDDY COUNTY, NM

Sampling Date: 04/22/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 3' (H501054-04)

BTEX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2015	ND	2.05	103	2.00	2.65	
Toluene*	<0.050	0.050	04/24/2015	ND	1.88	93.9	2.00	0.287	
Ethylbenzene*	<0.050	0.050	04/24/2015	ND	1.76	88.2	2.00	0.848	
Total Xylenes*	<0.150	0.150	04/24/2015	ND	5.65	94.1	6.00	1.11	
Total BTEX	<0.300	0.300	04/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	04/24/2015	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/24/2015	ND	205	103	200	1.77	
DRO >C10-C28	<10.0	10.0	04/24/2015	ND	217	109	200	2.47	

Surrogate: 1-Chlorooctane 104 % 47.2-157

Surrogate: 1-Chlorooctadecane 98.0 % 52.1-176

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*=Accredited Analyte

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Fax To: (575) 745-8905

Received: 04/23/2015
Reported: 04/27/2015
Project Name: PEACHES 19 CTB
Project Number: 70060844301
Project Location: EDDY COUNTY, NM

Sampling Date: 04/22/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 0' (H501054-05)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2015	ND	2.05	103	2.00	2.65	
Toluene*	<0.050	0.050	04/24/2015	ND	1.88	93.9	2.00	0.287	
Ethylbenzene*	<0.050	0.050	04/24/2015	ND	1.76	88.2	2.00	0.848	
Total Xylenes*	<0.150	0.150	04/24/2015	ND	5.65	94.1	6.00	1.11	
Total BTEX	<0.300	0.300	04/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14700	16.0	04/24/2015	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/24/2015	ND	205	103	200	1.77	
DRO >C10-C28	35.3	10.0	04/24/2015	ND	217	109	200	2.47	

Surrogate: 1-Chlorooctane 99.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 97.3 % 52.1-176

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*=Accredited Analyte

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Fax To: (575) 745-8905

Received: 04/23/2015
Reported: 04/27/2015
Project Name: PEACHES 19 CTB
Project Number: 70060844301
Project Location: EDDY COUNTY, NM

Sampling Date: 04/22/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 1' (H501054-06)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2015	ND	2.05	103	2.00	2.65	
Toluene*	<0.050	0.050	04/24/2015	ND	1.88	93.9	2.00	0.287	
Ethylbenzene*	<0.050	0.050	04/24/2015	ND	1.76	88.2	2.00	0.848	
Total Xylenes*	<0.150	0.150	04/24/2015	ND	5.65	94.1	6.00	1.11	
Total BTEX	<0.300	0.300	04/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 111 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	04/24/2015	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/24/2015	ND	205	103	200	1.77	
DRO >C10-C28	<10.0	10.0	04/24/2015	ND	217	109	200	2.47	

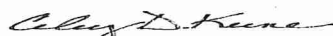
Surrogate: 1-Chlorooctane 102 % 47.2-157

Surrogate: 1-Chlorooctadecane 100 % 52.1-176

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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

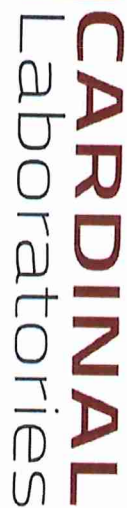
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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