



**RECEIVED**

By OCD District 1 at 8:19 am, Jun 22, 2015

May 28, 2015

**APPROVED**; Conditionally

By OCD District 1 at 8:19 am, Jun 22, 2015

**1. At a minimum, two confirmation samples should be taken.**

Mrs. Kellie Jones  
NMOCD District I  
1625 N. French Dr.  
Hobbs, NM 88240

AMARILLO  
921 North Bivins  
Amarillo, Texas 79107  
Phone 806.467.0607  
Fax 806.467.0622

ARTESIA  
408 West Texas Ave.  
Artesia, New Mexico 88210  
Phone 575.746.8768  
Fax 575.746.8905

HOBBS  
318 East Taylor Street  
Hobbs, New Mexico 88240  
Phone 575.393.4261  
Fax 575.393.4658

MIDLAND  
2901 State Hwy 349  
Midland, Texas 79706  
Phone 432.522.2133  
Fax 432.522.2180

OKLAHOMA CITY  
7700 North Hudson Avenue  
Suite 10  
Oklahoma City, Oklahoma 73116  
Phone 405.486.7030  
Fax 806.467.0622

SAN ANTONIO  
13111 Lookout Way  
San Antonio, Texas 78233  
Phone 210.265.8025  
Fax 210.568.2191

Subject: **Soil Assessment and Remediation Work Plan**  
Oxy USA Inc.  
J R Holt NCT A #6  
API #: 30-025-36679  
1RP-3624 & 1RP-3625

Dear Mrs. Jones:

OXY USA INC. (OXY) 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.

#### **Incident Date**

The release was discovered was March 28, 2015.

#### **Background Information**

The J R Holt NCT A #6 is located approximately eighteen (18) miles southeast of Jal in Lea County, New Mexico. The legal location for this site is Section 16, Township 24 South, and Range 37 East. More specifically the latitude and longitude for the release are 32.41591 North and -103.74235 West. A site plan is presented in [Appendix I](#).

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 Berino-Cacique association, hummocky. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology, Quaternary Age sedimentary deposits, is comprised of sandy eolian deposits derived from sedimentary rock over calcareous sandy alluvium derived from sedimentary rock. Drainage courses in this area are normally dry. The New Mexico State Engineer web site indicates the nearest ground water data to be in S8-T24S-R37E. The ground water in Section 8 is reported to be a depth of 87' below ground surface (bgs). See [Appendix II](#) for the referenced groundwater data.

The ranking for this site is **10** based on the following:

ENVIRONMENTAL CONSULTING  
ENGINEERING  
DRILLING  
CONSTRUCTION  
SPILL MANAGEMENT  
GENERAL CONTRACTING

Depth to ground water	50' - 100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

## Incident Description

A vent line corroded causing a release of 23 barrels of mixed fluids which breached the containment berms. A vac truck was immediately called to the location, recovering an unknown amount of fluids. The impacted area was within the berms surrounding the vent and the flow path breaching the berms measuring approximately 20' x 20' in the pasture around surrounding the berm.

## Actions Taken

On April 7, 2015 Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected utilizing a hand auger to a depth of 2-3 feet deep hitting refusal. See [Table 1](#) below. The full lab report is provided in [Appendix III](#).

On May 1, 2015 Talon personnel returned to the site to obtain deeper vertical delineation samples utilizing a backhoe. See [Table 2](#) below highlighting the analytical results. The full lab report is also provided in [Appendix III](#).

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 14, 2015

Table 1

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0'	301	2040	6040	16400
	1'	401	496	6210	13600
	2'	237	<16	3400	7210
Refusal	3'	192	160	2060	4240
S-2	0'	42.7	1580	1520	41600
	1'	411	4120	3910	9240
Refusal	2'	344	6640	3870	11000

May 11, 2014

Table 2

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	4'	<0.300	--	<10	16.7
	5'	<0.300	--	<10	139
	6'	<0.300	--	<10	15.2
S-2	3'	<0.3600	288	<10	35.4
	4'	<0.300	604	<10	111
	5'	<0.300	240	<10	26.5

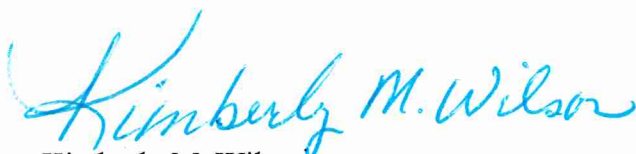
--Analyte Not Tested

**Proposed Remedial Actions:**

- The impacted area in the vicinity of S-1 will be excavated to a minimum depth of 3.5-feet bgs. Field PID readings will be used to guide the excavation. Once field results indicate that the impacted soil is below NMOCD Recommended Remedial Action Level's (RRAL's) a confirmation soil sample will be taken to insure all of the impacted material was removed.
- The impacted area in the vicinity S-2 will be excavated a minimum of 2.5-feet deep. Field PID readings will be used to guide the excavation. Once field results indicate that the impacted soil is below NMOCD Recommended Remedial Action Level's (RRAL's) confirmation soil samples will be taken to insure all of the impacted material was removed.
- All the contaminated soil will be transported to Lea Land, LLC, an approved disposal facility.
- Upon approval by the NMOCD, the excavated areas on location will be backfilled with caliche and re-contoured to match the surrounding location.
- A final closure report documenting all remedial actions and analytical results will be provided to the NMOCD Artesia Office along with a Final C-141 Form.

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,



Kimberly M. Wilson  
Project Manager

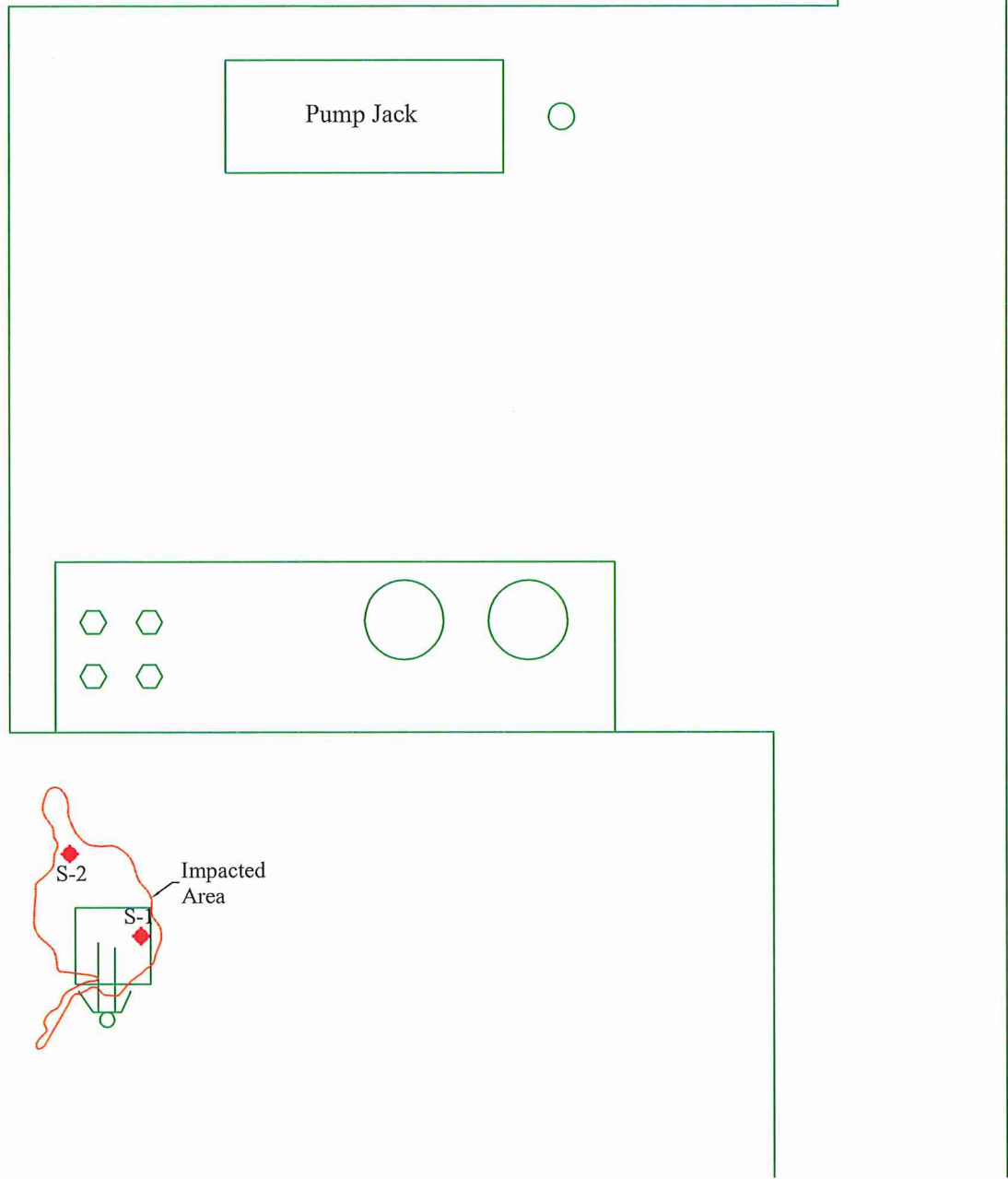


David J. Adkins  
District Manager

## **APPENDIX I**

### **SITE MAP**





0 5 10  
Scale in Feet

Legend	
◆	- Sample Location



Date: 04/10/2015
Scale: 1" = 20'
Drawn By: TJS

JR Holt NCT A 6Y Battery  
Oxy-NM-North  
Lea County, New Mexico  
Figure 1 - Site Plan

**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
<a href="#">CP 00307</a>			LE	2	2	2	21	24S	37E	673378	3565105*	1426	86		
<a href="#">CP 00301</a>			LE	4	2	1	22	24S	37E	674182	3564918*	1900	85		
<a href="#">CP 00305</a>			LE	3	3	3	14	24S	37E	675180	3565341*	2344	100		
<a href="#">CP 00306</a>			LE	3	3	3	14	24S	37E	675180	3565341*	2344	100		
<a href="#">CP 00308</a>			LE	3	1	3	22	24S	37E	673594	3564107*	2446	90		
<a href="#">CC 00348</a>			LE	2	4	4	05	24S	37E	671708	3568698*	2617			
<a href="#">CP 00410</a>			LE	3	4	1	08	24S	37E	670718	3567680*	2696	115	87	28
<a href="#">CP 00413</a>			LE	3	4	1	08	24S	37E	670718	3567680*	2696	185		
<a href="#">CP 00443</a>			LE	3	4	1	08	24S	37E	670718	3567680*	2696	125	90	35
<a href="#">CP 00912</a>			LE	1	1	1	11	24S	37E	675130	3568357*	2706	95		
<a href="#">CP 00295 POD3</a>			LE	4	4	4	21	24S	37E	673467	3563627	2903	112		
<a href="#">CP 00349</a>			LE	3	4	1	03	24S	37E	673905	3569343*	2929			

Average Depth to Water: **88 feet**

Minimum Depth: **87 feet**

Maximum Depth: **90 feet**

Record Count: 12

UTMNAD83 Radius Search (in meters):

Easting (X): 673149

Northing (Y): 3566513

Radius: 3000

\*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

~~HOBBS~~ State of New Mexico  
Energy Minerals and Natural Resources  
**APR 30 2015** Oil Conservation Division  
1220 South St. Francis Dr.  
**RECEIVED** 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: <b>OXY USA INC</b>	Contact: <b>Chris Jones</b>
Address: <b>102 S. Main St. Carlsbad, NM 88220</b>	Telephone No.: <b>575-628-4121</b>
Facility Name: <b>J R Holt NCT A #6Y</b>	Facility Type: <b>Battery</b>

Surface Owner: <b>Private</b>	Mineral Owner:	API No.: <b>30-025-36679</b>
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### LOCATION OF RELEASE

Unit Letter <b>G</b>	Section <b>16</b>	Township <b>24S</b>	Range <b>37E</b>	Feet from the <b>2530'</b>	North/South Line <b>North</b>	Feet from the <b>2005'</b>	East/West Line <b>East</b>	County <b>Lea</b>
-------------------------	----------------------	------------------------	---------------------	-------------------------------	----------------------------------	-------------------------------	-------------------------------	----------------------

Latitude **32.41591 N** Longitude **-103.74235 W**

### NATURE OF RELEASE

Type of Release: <b>Mix Fluids</b>	Volume of Release: <b>15 bbls PW 8 bbls Oil</b>	Volume Recovered: <b>Unknown</b>
Source of Release: <b>Vent Line Corroded</b>	Date and Hour of Occurrence <b>3/28/2015</b>	Date and Hour of Discovery <b>3/28/2015</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	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: **A vent line corroded causing a 23 barrel release of mix fluids within the berm of the vent breaching the berms. A vac truck was immediately call to the location and recovered unknown barrels of fluids.**

Describe Area Affected and Cleanup Action Taken.\* ☐ The impacted area was within the berms surrounding the vent and breaching the berms measuring approximately 20' x 20' in the pasture around surrounding the berm. Talon/LPE has already performed site assessment and soil sampling activities, further delineation will be required.

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.

<b>Chris Jones</b> Signature: <b>Jones</b> Printed Name: <b>Chris Jones</b> Title: <b>HES Specialist</b> E-mail Address: <b>Christopher.Jones@oxy.com</b> Date: <b>4/28/2015</b> Phone: <b>575-628-4121</b>	<b>OIL CONSERVATION DIVISION</b> Approved by Environmental Specialist: Approval Date: <b>05/01/2015</b> Expiration Date: <b>08/01/2015</b> Conditions of Approval: <b>- Site samples required</b> Attached <input type="checkbox"/> <b>16694 IRP - 3624</b>
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\* Attach Additional Sheets If Necessary

- Delineate and remediate per  
nmoed guidely  
- Geotag photograph of  
remediation required.

PKJ1512133459  
MKJ1512133049



**APPENDIX III**  
**LABORATORY RESULTS**

April 14, 2015

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: J R HOLT NCT 'A' 6Y BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/07/15 11:05.

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 [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:**

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

 Received: 04/07/2015  
 Reported: 04/14/2015  
 Project Name: J R HOLT NCT 'A' 6Y BATTERY  
 Project Number: 70060843801  
 Project Location: LEA COUNTY, NM

 Sampling Date: 04/07/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-1 0' (H500915-01)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>8.63</b>	5.00	04/10/2015	ND	1.91	95.4	2.00	0.00906	
<b>Toluene*</b>	<b>90.7</b>	5.00	04/10/2015	ND	1.74	86.8	2.00	0.711	
<b>Ethylbenzene*</b>	<b>45.8</b>	5.00	04/10/2015	ND	1.70	84.9	2.00	2.43	
<b>Total Xylenes*</b>	<b>156</b>	15.0	04/10/2015	ND	5.35	89.2	6.00	2.87	
<b>Total BTX</b>	<b>301</b>	30.0	04/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2040</b>	16.0	04/08/2015	ND	416	104	400	0.00	

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>6040</b>	100	04/07/2015	ND	183	91.4	200	0.116		
<b>DRO &gt;C10-C28</b>	<b>16400</b>	100	04/07/2015	ND	191	95.4	200	0.113		

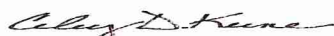
Surrogate: 1-Chlorooctane 207 % 47.2-157

Surrogate: 1-Chlorooctadecane 227 % 52.1-176

Cardinal Laboratories

\* = Accredited Analyte

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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:	04/07/2015	Sampling Date:	04/07/2015
Reported:	04/14/2015	Sampling Type:	Soil
Project Name:	J R HOLT NCT 'A' 6Y BATTERY	Sampling Condition:	Cool & Intact
Project Number:	70060843801	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

**Sample ID: S-1 1' (H500915-02)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>13.9</b>	5.00	04/10/2015	ND	1.91	95.4	2.00	0.00906	
<b>Toluene*</b>	<b>132</b>	5.00	04/10/2015	ND	1.74	86.8	2.00	0.711	
<b>Ethylbenzene*</b>	<b>80.8</b>	5.00	04/10/2015	ND	1.70	84.9	2.00	2.43	
<b>Total Xylenes*</b>	<b>175</b>	15.0	04/10/2015	ND	5.35	89.2	6.00	2.87	
<b>Total BTX</b>	<b>401</b>	30.0	04/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 119 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>496</b>	16.0	04/08/2015	ND	416	104	400	0.00	

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>6210</b>	100	04/08/2015	ND	183	91.4	200	0.116		
<b>DRO &gt;C10-C28</b>	<b>13600</b>	100	04/08/2015	ND	191	95.4	200	0.113		

Surrogate: 1-Chlorooctane 193 % 47.2-157

Surrogate: 1-Chlorooctadecane 202 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 04/07/2015  
Reported: 04/14/2015  
Project Name: J R HOLT NCT 'A' 6Y BATTERY  
Project Number: 70060843801  
Project Location: LEA COUNTY, NM

Sampling Date: 04/07/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-1 2' (H500915-03)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>9.05</b>	2.00	04/10/2015	ND	1.91	95.4	2.00	0.00906	
<b>Toluene*</b>	<b>75.1</b>	2.00	04/10/2015	ND	1.74	86.8	2.00	0.711	
<b>Ethylbenzene*</b>	<b>52.1</b>	2.00	04/10/2015	ND	1.70	84.9	2.00	2.43	
<b>Total Xylenes*</b>	<b>100</b>	6.00	04/10/2015	ND	5.35	89.2	6.00	2.87	
<b>Total BTX</b>	<b>237</b>	12.0	04/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 122 % 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	<16.0	16.0	04/08/2015	ND	416	104	400	0.00	

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>3400</b>	100	04/08/2015	ND	198	98.9	200	5.38	
<b>DRO &gt;C10-C28</b>	<b>7210</b>	100	04/08/2015	ND	209	104	200	7.52	

Surrogate: 1-Chlorooctane 154 % 47.2-157

Surrogate: 1-Chlorooctadecane 163 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received:	04/07/2015	Sampling Date:	04/07/2015
Reported:	04/14/2015	Sampling Type:	Soil
Project Name:	J R HOLT NCT 'A' 6Y BATTERY	Sampling Condition:	Cool & Intact
Project Number:	70060843801	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

**Sample ID: S-1 3' REFUSAL (H500915-04)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	10.1	1.00	04/10/2015	ND	1.91	95.4	2.00	0.00906	
Toluene*	64.8	1.00	04/10/2015	ND	1.74	86.8	2.00	0.711	
Ethylbenzene*	41.3	1.00	04/10/2015	ND	1.70	84.9	2.00	2.43	
Total Xylenes*	76.1	3.00	04/10/2015	ND	5.35	89.2	6.00	2.87	
Total BTX	192	6.00	04/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 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	160	16.0	04/08/2015	ND	416	104	400	0.00	

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	2060	100	04/08/2015	ND	198	98.9	200	5.38		
DRO >C10-C28	4240	100	04/08/2015	ND	209	104	200	7.52		

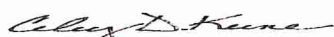
Surrogate: 1-Chlorooctane 160 % 47.2-157

Surrogate: 1-Chlorooctadecane 134 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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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:	04/07/2015	Sampling Date:	04/07/2015
Reported:	04/14/2015	Sampling Type:	Soil
Project Name:	J R HOLT NCT 'A' 6Y BATTERY	Sampling Condition:	Cool & Intact
Project Number:	70060843801	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

**Sample ID: S-2 0' (H500915-05)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	04/10/2015	ND	1.91	95.4	2.00	0.00906	
Toluene*	4.17	1.00	04/10/2015	ND	1.74	86.8	2.00	0.711	
Ethylbenzene*	5.41	1.00	04/10/2015	ND	1.70	84.9	2.00	2.43	
Total Xylenes*	33.1	3.00	04/10/2015	ND	5.35	89.2	6.00	2.87	
Total BTX	42.7	6.00	04/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 126 % 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	1580	16.0	04/08/2015	ND	416	104	400	0.00	

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	1520	100	04/08/2015	ND	198	98.9	200	5.38		
DRO >C10-C28	41600	100	04/08/2015	ND	209	104	200	7.52		

Surrogate: 1-Chlorooctane 189 % 47.2-157

Surrogate: 1-Chlorooctadecane 298 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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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:	04/07/2015	Sampling Date:	04/07/2015
Reported:	04/14/2015	Sampling Type:	Soil
Project Name:	J R HOLT NCT 'A' 6Y BATTERY	Sampling Condition:	Cool & Intact
Project Number:	70060843801	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

**Sample ID: S-2 1' (H500915-06)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	10.8	2.00	04/10/2015	ND	1.91	95.4	2.00	0.00906	
Toluene*	123	2.00	04/10/2015	ND	1.74	86.8	2.00	0.711	
Ethylbenzene*	93.3	2.00	04/10/2015	ND	1.70	84.9	2.00	2.43	
Total Xylenes*	184	6.00	04/10/2015	ND	5.35	89.2	6.00	2.87	
Total BTEX	411	12.0	04/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIB) 131 % 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	4120	16.0	04/08/2015	ND	416	104	400	0.00	

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	3910	100	04/08/2015	ND	198	98.9	200	5.38		
DRO >C10-C28	9240	100	04/08/2015	ND	209	104	200	7.52		

Surrogate: 1-Chlorooctane 162 % 47.2-157

Surrogate: 1-Chlorooctadecane 169 % 52.1-176

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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:	04/07/2015	Sampling Date:	04/07/2015
Reported:	04/14/2015	Sampling Type:	Soil
Project Name:	J R HOLT NCT 'A' 6Y BATTERY	Sampling Condition:	Cool & Intact
Project Number:	70060843801	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

**Sample ID: S-2 2' REFUSAL (H500915-07)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.76	2.00	04/10/2015	ND	2.04	102	2.00	1.34	
Toluene*	104	2.00	04/10/2015	ND	1.85	92.7	2.00	1.29	
Ethylbenzene*	75.5	2.00	04/10/2015	ND	1.85	92.4	2.00	1.72	
Total Xylenes*	155	6.00	04/10/2015	ND	5.90	98.3	6.00	2.17	
Total BTEX	344	12.0	04/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 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	6640	16.0	04/08/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3870	100	04/08/2015	ND	198	98.9	200	5.38	
DRO >C10-C28	11000	100	04/08/2015	ND	209	104	200	7.52	

Surrogate: 1-Chlorooctane 152 % 47.2-157

Surrogate: 1-Chlorooctadecane 171 % 52.1-176

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Caley 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.
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







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

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May 11, 2015

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: J R HOLT NCT 'A' 6Y BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/04/15 12:15.

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,

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:	05/04/2015	Sampling Date:	05/01/2015
Reported:	05/11/2015	Sampling Type:	Soil
Project Name:	J R HOLT NCT 'A' 6Y BATTERY	Sampling Condition:	Cool & Intact
Project Number:	70060843801	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

**Sample ID: S-1 4' (H501154-01)**

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2015	ND	1.97	98.7	2.00	1.90	
Toluene*	<0.050	0.050	05/06/2015	ND	1.78	88.8	2.00	1.93	
Ethylbenzene*	<0.050	0.050	05/06/2015	ND	1.70	85.2	2.00	2.66	
Total Xylenes*	<0.150	0.150	05/06/2015	ND	5.62	93.7	6.00	2.85	
Total BTX	<0.300	0.300	05/06/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 61-154

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/05/2015	ND	203	101	200	0.827	
DRO >C10-C28	16.7	10.0	05/05/2015	ND	210	105	200	1.22	

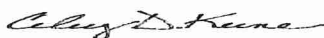
Surrogate: 1-Chlorooctane 98.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 98.7 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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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:	05/04/2015	Sampling Date:	05/01/2015
Reported:	05/11/2015	Sampling Type:	Soil
Project Name:	J R HOLT NCT 'A' 6Y BATTERY	Sampling Condition:	Cool & Intact
Project Number:	70060843801	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

**Sample ID: S-1 5' (H501154-02)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2015	ND	1.97	98.7	2.00	1.90	
Toluene*	<0.050	0.050	05/06/2015	ND	1.78	88.8	2.00	1.93	
Ethylbenzene*	<0.050	0.050	05/06/2015	ND	1.70	85.2	2.00	2.66	
Total Xylenes*	<0.150	0.150	05/06/2015	ND	5.62	93.7	6.00	2.85	
Total BTEX	<0.300	0.300	05/06/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 61-154

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/05/2015	ND	203	101	200	0.827	
DRO >C10-C28	136	10.0	05/05/2015	ND	210	105	200	1.22	

Surrogate: 1-Chlorooctane 99.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 102 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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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:	05/04/2015	Sampling Date:	05/01/2015
Reported:	05/11/2015	Sampling Type:	Soil
Project Name:	J R HOLT NCT 'A' 6Y BATTERY	Sampling Condition:	Cool & Intact
Project Number:	70060843801	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

**Sample ID: S-1 6' (H501154-03)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2015	ND	1.97	98.7	2.00	1.90	
Toluene*	<0.050	0.050	05/06/2015	ND	1.78	88.8	2.00	1.93	
Ethylbenzene*	<0.050	0.050	05/06/2015	ND	1.70	85.2	2.00	2.66	
Total Xylenes*	<0.150	0.150	05/06/2015	ND	5.62	93.7	6.00	2.85	
Total BTEX	<0.300	0.300	05/06/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 61-154

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/05/2015	ND	197	98.5	200	3.00	
DRO >C10-C28	15.2	10.0	05/05/2015	ND	203	101	200	2.52	

Surrogate: 1-Chlorooctane 98.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 101 % 52.1-176

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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:	05/04/2015	Sampling Date:	05/01/2015
Reported:	05/11/2015	Sampling Type:	Soil
Project Name:	J R HOLT NCT 'A' 6Y BATTERY	Sampling Condition:	Cool & Intact
Project Number:	70060843801	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

**Sample ID: S-2 3' (H501154-04)**

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2015	ND	1.97	98.7	2.00	1.90	
Toluene*	<0.050	0.050	05/06/2015	ND	1.78	88.8	2.00	1.93	
Ethylbenzene*	<0.050	0.050	05/06/2015	ND	1.70	85.2	2.00	2.66	
Total Xylenes*	<0.150	0.150	05/06/2015	ND	5.62	93.7	6.00	2.85	
Total BTX	<0.300	0.300	05/06/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	288	16.0	05/06/2015	ND	461	115	400	6.49	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/05/2015	ND	197	98.5	200	3.00	
DRO >C10-C28	35.4	10.0	05/05/2015	ND	203	101	200	2.52	

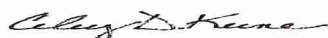
Surrogate: 1-Chlorooctane 98.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 95.3 % 52.1-176

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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:	05/04/2015	Sampling Date:	05/01/2015
Reported:	05/11/2015	Sampling Type:	Soil
Project Name:	J R HOLT NCT 'A' 6Y BATTERY	Sampling Condition:	Cool & Intact
Project Number:	70060843801	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

**Sample ID: S-2 4' (H501154-05)**

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2015	ND	1.97	98.7	2.00	1.90	
Toluene*	<b>0.084</b>	0.050	05/06/2015	ND	1.78	88.8	2.00	1.93	
Ethylbenzene*	<b>0.072</b>	0.050	05/06/2015	ND	1.70	85.2	2.00	2.66	
Total Xylenes*	<0.150	0.150	05/06/2015	ND	5.62	93.7	6.00	2.85	
Total BTX	<0.300	0.300	05/06/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	<b>604</b>	16.0	05/06/2015	ND	461	115	400	6.49	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/05/2015	ND	197	98.5	200	3.00	
DRO >C10-C28	<b>111</b>	10.0	05/05/2015	ND	203	101	200	2.52	

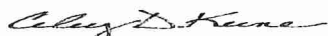
Surrogate: 1-Chlorooctane 92.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.3 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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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:	05/04/2015	Sampling Date:	05/01/2015
Reported:	05/11/2015	Sampling Type:	Soil
Project Name:	J R HOLT NCT 'A' 6Y BATTERY	Sampling Condition:	Cool & Intact
Project Number:	70060843801	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

**Sample ID: S-2 5' (H501154-06)**

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2015	ND	1.97	98.7	2.00	1.90	
Toluene*	<0.050	0.050	05/06/2015	ND	1.78	88.8	2.00	1.93	
Ethylbenzene*	<0.050	0.050	05/06/2015	ND	1.70	85.2	2.00	2.66	
Total Xylenes*	<0.150	0.150	05/06/2015	ND	5.62	93.7	6.00	2.85	
Total BTX	<0.300	0.300	05/06/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	240	16.0	05/06/2015	ND	461	115	400	6.49	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/05/2015	ND	197	98.5	200	3.00	
DRO >C10-C28	26.5	10.0	05/05/2015	ND	203	101	200	2.52	

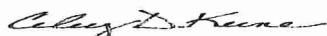
Surrogate: 1-Chlorooctane 93.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.6 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

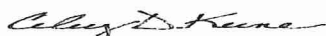
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

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Celey D. Keene, Lab Director/Quality Manager





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ANALYSIS REQUEST

BILL TO

Company Name: Talon/LPE

Project Manager: D. Adams

Address: 408 W. Texas Ave.

City: Artesia

Phone #: 575-746-8768

State: NM zip: 88210

Project #: 70060843801 Project Owner: OKY

Project Name: JR Holt NCTIA' 07 Bldg

Project Location:

Sample Name: G. Bueza

FOR LAB USE ONLY

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH

BTEx

Total Chlorides

Lab I.D. Sample I.D.

1501154

1 S-1 4'

2 S-1 5'

3 S-1 6'

4 S-2 3'

5 S-2 4'

6 S-2 5'

Relinquished By:

Date: 5-4-15

Received By:

Chris Jones

Relinquished By:

Date: 5-15-15

Received By:

Chris Jones

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

4.26

Sample Condition  
Cool ☐ Intact ☐  
Yes ☐ No ☐

CHECKED BY: Initials

Project, 1128112

Task, 01640502

Element, 2019

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