

**RECEIVED**

By JKeyes at 12:08 pm, Mar 29, 2016

**APPROVED**



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**Revised Work Plan**

**Pyote Well Service, LLC: A N ETZ #001**

**[30-025-07713|1RP-3415]**

March 29, 2016

**Prepared By:**

TALON/LPE  
408 W. Texas Avenue  
Artesia, New Mexico 88210

**Prepared For:**

Pyote Well Service, LLC

Mr. Jamie Keyes  
NMOCD District 2  
811 S. 1<sup>st</sup> Street  
Artesia, NM 88210

Subject: **Soil Assessment and Remediation Work Plan**  
Pyote Well Service  
A N ETZ #001 (30-025-07713) \*1RP-3415\*

Dear Mr. Keyes,

Pyote Well Service, LLC (Pyote) has contracted Talon/LPE (Talon) to perform soil sampling and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

### Site Information

The Pyote A N ETZ #001 is located approximately six (6) miles south of Hobbs, New Mexico. The legal location for this facility is Unit Letter P, Section 26, Township 19 South and Range 38 East in Lea County, New Mexico. More specifically the latitude and longitude are 32.6257858 North and -103.112793 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 Stegall loam with 0 to 1 percent slopes. Drainage courses in this area are normally dry.

### Ground Water and Site Ranking

According to the New Mexico Office of the State Engineer database, the ground water in this area is approximately 64-feet below ground surface (BGS) (the referenced ground water data is presented in [Appendix II](#)). Therefore the ranking for this site is a **10** based on the following:

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

Based upon the site ranking of **10**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 1,000 mg/kg for TPH and 500 mg/kg for total chlorides.

## Incident Description and Initial Remedial Actions

On November 1, 2014 the tee and nipple on the injection well head failed resulting in the release of approximately 30bbls of produced water. The produced water flowed from the well head southeast across the well pad and into the low lying area south of the well pad. On January 7, 2014 Talon mobilized personnel to conduct an initial site assessment and soil sampling within the impacted area utilizing a hand auger. Refusal was encountered at a depth of 1-foot BGS with the hand auger.

On March 4, 2015 Talon mobilized personnel and equipment to vertically and horizontally delineate the impacted area utilizing an excavator. The laboratory results from the soil sampling events are summarized in the table below. See [Appendix IV](#) for complete report of laboratory results.

## Laboratory Results

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

January 7, 2014

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH(mg/kg) GRO	TPH(mg/kg) DRO
S-1	0	ND	8260	ND	4030
S-1 Refusal	1	ND	10500	11.5	222
S-2	0	ND	496	ND	ND
S-2 Refusal	1	ND	2160	ND	ND
S-3	0	ND	10700	ND	ND
S-3 Refusal	1	ND	6930	ND	ND

(ND) Analyte Not Detected

March 4, 2015

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	ND	6000	ND	ND
S-1	1	--	6530	--	--
S-1	2	--	8660	--	--
S-1	3	--	3760	--	--
S-1	4	--	608	--	--
S-1	5	--	80	--	--
S-2	0	ND	1280	ND	ND
S-2	1	--	1960	--	--
S-2	2	--	4160	--	--
S-2	3	--	4720	--	--
S-2	4	ND	4560	ND	ND
S-2	5	--	3760	--	--
S-2	7	ND	4400	--	--

March 4, 2015 Continued

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-2	9	ND	3920	--	--
S-2	11	--	1260	--	--
S-2	13	--	928	--	--
S-2	15	--	512	--	--
S-2	17	--	368	--	--
S-3	0	ND	112	ND	ND
S-3	1	--	64	--	--
S-3	2	--	160	--	--
S-3	3	--	448	--	--
S-3	4	--	448	--	--
S-3	5	--	112	--	--
S-4	0	ND	ND	ND	ND
S-5	0	ND	ND	ND	ND
S-6	0	ND	ND	ND	ND

(--) Analyte Not Tested

(ND) Analyte Not Detected

## Conclusions and Proposed Remedial Actions

- The impacted area in the vicinity of sample location S-1 will be excavated to a depth of 4-feet BGS.
- Sample location S-2 will further vertically delineated until soil chloride concentrations are at or below 250 mg/kg.
- Once delineation activities are complete, the impacted area in the vicinity of sample location S-2 will be excavated to a depth of 4-feet BGS and a 20-mil reinforced liner will be installed at the bottom of the excavation to encapsulate the remaining chloride impacts.
- Soil samples will be collected at sample location S-3 at the depths of 10-feet and 15-feet BGS. These soil samples will be analyzed for total chloride concentration and the results will be forwarded to NMOCD for review.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- The excavated area on the location will be backfilled with caliche. The excavation in the pasture will be backfilled with topsoil and contoured to match the surrounding area.

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

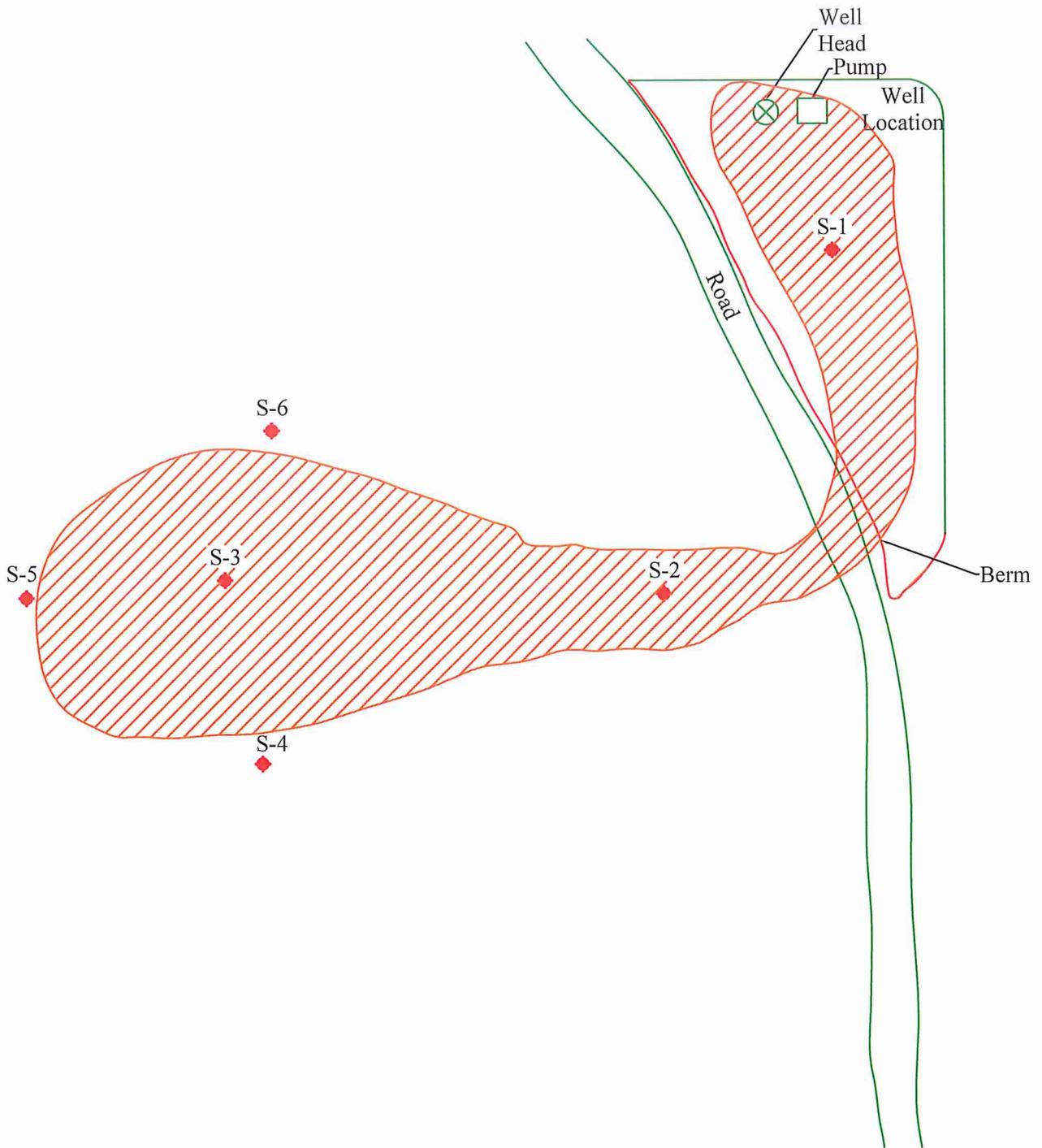
  
Sheldon L. Hitchcock  
Project Manager

  
David J. Adkins  
District Manager

### Attachments

Appendix I Site Plan  
Appendix II Groundwater Data  
Appendix III Initial C-141  
Appendix IV Laboratory Results

**APPENDIX I**  
**SITE PLAN**



**Legend**

- ◆ - Sample Location
- ▨ - Impacted Area



Date: 03/14/2016  
 Scale: NTS  
 Drawn By: TJS

ETZ SWD  
 Pyote Water Solutions  
 Lea County, New Mexico  
 Figure 1 - Site Plan

**APPENDIX II**  
**GROUNDWATER DATA**



# 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 1	Q 2	Q 3	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">L 00298 POD5</a>	L	LE		3	3	3	25	19S	38E	677345	3611275*	315	112	64	48

Average Depth to Water: **64 feet**

Minimum Depth: **64 feet**

Maximum Depth: **64 feet**

**Record Count:** 1

**Basin/County Search:**

**County:** Lea

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 677044

**Northing (Y):** 3611369

**Radius:** 320

\*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.

**APPENDIX III**

**INITIAL C-141**

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

Form C-141  
Revised August 8, 2011

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

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— <i>PYOTE WATER SOLUTIONS, LLC</i>	Contact --- <i>JERRY BURTON</i>
Address <i>400 W ILLINOIS, STE 950 MIDLAND TX, 79701</i>	Telephone No. <i>432-448-4917</i>
Facility Name <i>ETZ SWD</i> <i>IRP-3415</i>	Facility Type <i>PRODUCTION WATER DISPOSAL</i>

Surface Owner— <i>PYOTE WATER SOLUTIONS</i>	Mineral Owner <i>PYOTE WATER SOLUTIONS</i>	API No. <i>30-025-07713</i>
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line <i>SOUTH OF WELL</i>	Feet from the	East/West Line	County <i>LEA COUNTY</i>
-------------	---------	----------	-------	---------------	--	---------------	----------------	-----------------------------

Latitude *32.6275679.101018\_103.112804363809* Longitude \_\_\_\_\_

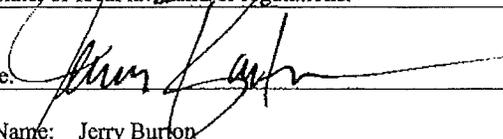
**NATURE OF RELEASE**

Type of Release: <i>wellhead busted T and nipple</i>	Volume of Release <i>300 bbls</i>	Volume Recovered
Source of Release: <i>production water</i>	Date and Hour of Occurrence <i>11-1-17 8:40 am</i>	Date and Hour of Discovery <i>11-1-17 8:40 am</i>
Was Immediate Notice Given?***** <input type="checkbox"/> Yes	If YES, To Whom? Left message on 11-1 at OCD office. Tomas called back on Monday. Audra Burton NM clerk for Pyote Water Systems	
By Whom? <i>Tomas from Hobbs office</i>	Date and Hour <i>11-1-17 8:40 am</i>	
Was a Watercourse Reached ***** <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		

Describe Cause of Problem and Remedial Action Taken.\* *t and nipple on well head busted 8:40 am Jeff notified Jerry that morning*

Describe Area Affected and Cleanup Action Taken. *Southeast corner by well, and will need to call Talon for soil sampling –per Jerry Burton*

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

Signature: 	<b>OIL CONSERVATION DIVISION</b>
Printed Name: <i>Jerry Burton</i>	Approved by Environmental Specialist:

**APPENDIX IV**  
**LABORATORY RESULTS**

January 12, 2015

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: ETZ SWD

Enclosed are the results of analyses for samples received by the laboratory on 01/07/15 11:40.

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

Received:	01/07/2015	Sampling Date:	01/07/2015
Reported:	01/12/2015	Sampling Type:	Soil
Project Name:	ETZ SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-1 0' (H500041-01)**

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	01/09/2015	ND	1.72	86.1	2.00	5.71	
Toluene*	<0.050	0.050	01/09/2015	ND	1.69	84.6	2.00	7.04	
Ethylbenzene*	<0.050	0.050	01/09/2015	ND	1.63	81.6	2.00	8.36	
Total Xylenes*	<0.150	0.150	01/09/2015	ND	4.91	81.8	6.00	8.55	
Total BTEX	<0.300	0.300	01/09/2015	ND					

Surrogate: 4-Bromofluorobenzene (PII) 93.3 % 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>8260</b>	16.0	01/08/2015	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	<50.0	50.0	01/07/2015	ND	190	94.9	200	1.64	
<b>DRO &gt;C10-C28</b>	<b>4030</b>	50.0	01/07/2015	ND	177	88.5	200	0.912	

Surrogate: 1-Chlorooctane 89.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 172 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received:	01/07/2015	Sampling Date:	01/07/2015
Reported:	01/12/2015	Sampling Type:	Soil
Project Name:	ETZ SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-1 1' REFUSAL (H500041-02)**

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	01/09/2015	ND	1.72	86.1	2.00	5.71		
Toluene*	<0.050	0.050	01/09/2015	ND	1.69	84.6	2.00	7.04		
Ethylbenzene*	<0.050	0.050	01/09/2015	ND	1.63	81.6	2.00	8.36		
Total Xylenes*	<0.150	0.150	01/09/2015	ND	4.91	81.8	6.00	8.55		
Total BTEX	<0.300	0.300	01/09/2015	ND						

*Surrogate: 4-Bromofluorobenzene (PII) 98.4 % 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>10500</b>	16.0	01/08/2015	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>11.5</b>	10.0	01/07/2015	ND	190	94.9	200	1.64		
<b>DRO &gt;C10-C28</b>	<b>222</b>	10.0	01/07/2015	ND	177	88.5	200	0.912		

*Surrogate: 1-Chlorooctane 90.4 % 47.2-157*
*Surrogate: 1-Chlorooctadecane 94.8 % 52.1-176*

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/07/2015	Sampling Date:	01/07/2015
Reported:	01/12/2015	Sampling Type:	Soil
Project Name:	ETZ SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-2 0' (H500041-03)**

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	01/09/2015	ND	1.72	86.1	2.00	5.71		
Toluene*	<0.050	0.050	01/09/2015	ND	1.69	84.6	2.00	7.04		
Ethylbenzene*	<0.050	0.050	01/09/2015	ND	1.63	81.6	2.00	8.36		
Total Xylenes*	<0.150	0.150	01/09/2015	ND	4.91	81.8	6.00	8.55		
Total BTEX	<0.300	0.300	01/09/2015	ND						

*Surrogate: 4-Bromofluorobenzene (PII) 94.8 % 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>496</b>	16.0	01/08/2015	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	<10.0	10.0	01/07/2015	ND	190	94.9	200	1.64		
DRO >C10-C28	<10.0	10.0	01/07/2015	ND	177	88.5	200	0.912		

*Surrogate: 1-Chlorooctane 87.1 % 47.2-157*
*Surrogate: 1-Chlorooctadecane 92.0 % 52.1-176*

Cardinal Laboratories

\* = Accredited Analyte

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 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	01/07/2015	Sampling Date:	01/07/2015
Reported:	01/12/2015	Sampling Type:	Soil
Project Name:	ETZ SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-2 1' REFUSAL (H500041-04)**

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	01/09/2015	ND	1.72	86.1	2.00	5.71	
Toluene*	<0.050	0.050	01/09/2015	ND	1.69	84.6	2.00	7.04	
Ethylbenzene*	<0.050	0.050	01/09/2015	ND	1.63	81.6	2.00	8.36	
Total Xylenes*	<0.150	0.150	01/09/2015	ND	4.91	81.8	6.00	8.55	
Total BTEX	<0.300	0.300	01/09/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 95.5 % 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>2160</b>	16.0	01/08/2015	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	<10.0	10.0	01/07/2015	ND	190	94.9	200	1.64	
DRO >C10-C28	<10.0	10.0	01/07/2015	ND	177	88.5	200	0.912	

Surrogate: 1-Chlorooctane 89.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 98.8 % 52.1-176

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 Fax To: (575) 745-8905

Received:	01/07/2015	Sampling Date:	01/07/2015
Reported:	01/12/2015	Sampling Type:	Soil
Project Name:	ETZ SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-3 0' (H500041-05)**

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	01/09/2015	ND	1.72	86.1	2.00	5.71		
Toluene*	<0.050	0.050	01/09/2015	ND	1.69	84.6	2.00	7.04		
Ethylbenzene*	<0.050	0.050	01/09/2015	ND	1.63	81.6	2.00	8.36		
Total Xylenes*	<0.150	0.150	01/09/2015	ND	4.91	81.8	6.00	8.55		
Total BTEX	<0.300	0.300	01/09/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 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	10700	16.0	01/08/2015	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	<10.0	10.0	01/07/2015	ND	190	94.9	200	1.64		
DRO >C10-C28	<10.0	10.0	01/07/2015	ND	177	88.5	200	0.912		

Surrogate: 1-Chlorooctane 85.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 93.6 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/07/2015	Sampling Date:	01/07/2015
Reported:	01/12/2015	Sampling Type:	Soil
Project Name:	ETZ SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-3 1' REFUSAL (H500041-06)**

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	01/09/2015	ND	1.72	86.1	2.00	5.71		
Toluene*	<0.050	0.050	01/09/2015	ND	1.69	84.6	2.00	7.04		
Ethylbenzene*	<0.050	0.050	01/09/2015	ND	1.63	81.6	2.00	8.36		
Total Xylenes*	<0.150	0.150	01/09/2015	ND	4.91	81.8	6.00	8.55		
Total BTEX	<0.300	0.300	01/09/2015	ND						

*Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 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>6930</b>	16.0	01/08/2015	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	<10.0	10.0	01/08/2015	ND	190	94.9	200	1.64		
DRO >C10-C28	<10.0	10.0	01/08/2015	ND	177	88.5	200	0.912		

*Surrogate: 1-Chlorooctane 90.6 % 47.2-157*
*Surrogate: 1-Chlorooctadecane 90.6 % 52.1-176*

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\* = 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





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

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March 10, 2016

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: ETZ SWD

Enclosed are the results of analyses for samples received by the laboratory on 03/04/16 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 03/04/2016  
 Reported: 03/10/2016  
 Project Name: ETZ SWD  
 Project Number: 701712.004.01  
 Project Location: NOT GIVEN

 Sampling Date: 03/04/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-1 0' (H600487-01)**

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	03/08/2016	ND	2.07	103	2.00	3.33		
Toluene*	<0.050	0.050	03/08/2016	ND	2.03	102	2.00	3.88		
Ethylbenzene*	<0.050	0.050	03/08/2016	ND	1.82	91.2	2.00	4.85		
Total Xylenes*	<0.150	0.150	03/08/2016	ND	5.66	94.4	6.00	4.50		
Total BTEX	<0.300	0.300	03/08/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6000	16.0	03/08/2016	ND	432	108	400	7.69		

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	03/07/2016	ND	206	103	200	10.6		
DRO >C10-C28	<10.0	10.0	03/07/2016	ND	231	116	200	19.6		

Surrogate: 1-Chlorooctane 92.4 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

**Sample ID: S-1 1' (H600487-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6530	16.0	03/08/2016	ND	432	108	400	7.69		

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	03/04/2016	Sampling Date:	03/04/2016
Reported:	03/10/2016	Sampling Type:	Soil
Project Name:	ETZ SWD	Sampling Condition:	Cool & Intact
Project Number:	701712.004.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-1 2' (H600487-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8660	16.0	03/08/2016	ND	432	108	400	7.69		

**Sample ID: S-1 3' (H600487-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3760	16.0	03/08/2016	ND	432	108	400	7.69		

**Sample ID: S-1 4' (H600487-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	03/08/2016	ND	432	108	400	7.69		

**Sample ID: S-1 5' (H600487-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/08/2016	ND	432	108	400	7.69		

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	03/04/2016	Sampling Date:	03/04/2016
Reported:	03/10/2016	Sampling Type:	Soil
Project Name:	ETZ SWD	Sampling Condition:	Cool & Intact
Project Number:	701712.004.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-2 0' (H600487-07)**

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	03/08/2016	ND	2.07	103	2.00	3.33		
Toluene*	<0.050	0.050	03/08/2016	ND	2.03	102	2.00	3.88		
Ethylbenzene*	<0.050	0.050	03/08/2016	ND	1.82	91.2	2.00	4.85		
Total Xylenes*	<0.150	0.150	03/08/2016	ND	5.66	94.4	6.00	4.50		
Total BTEX	<0.300	0.300	03/08/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1280	16.0	03/08/2016	ND	432	108	400	7.69		

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	03/07/2016	ND	206	103	200	10.6		
DRO >C10-C28	<10.0	10.0	03/07/2016	ND	231	116	200	19.6		

Surrogate: 1-Chlorooctane 87.4 % 35-147

Surrogate: 1-Chlorooctadecane 99.0 % 28-171

**Sample ID: S-2 1' (H600487-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1960	16.0	03/08/2016	ND	432	108	400	7.69		

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	03/04/2016	Sampling Date:	03/04/2016
Reported:	03/10/2016	Sampling Type:	Soil
Project Name:	ETZ SWD	Sampling Condition:	Cool & Intact
Project Number:	701712.004.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-2 2' (H600487-09)**

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	03/08/2016	ND	432	108	400	7.69	

**Sample ID: S-2 3' (H600487-10)**

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	03/08/2016	ND	432	108	400	7.69	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 03/04/2016  
 Reported: 03/10/2016  
 Project Name: ETZ SWD  
 Project Number: 701712.004.01  
 Project Location: NOT GIVEN

 Sampling Date: 03/04/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-2 4' (H600487-11)**

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	03/08/2016	ND	2.08	104	2.00	0.193		
Toluene*	<0.050	0.050	03/08/2016	ND	2.03	102	2.00	0.140		
Ethylbenzene*	<0.050	0.050	03/08/2016	ND	1.83	91.3	2.00	0.480		
Total Xylenes*	<0.150	0.150	03/08/2016	ND	5.63	93.8	6.00	0.275		
Total BTEX	<0.300	0.300	03/08/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4560	16.0	03/08/2016	ND	432	108	400	7.69		

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	03/07/2016	ND	206	103	200	10.6		
DRO >C10-C28	<10.0	10.0	03/07/2016	ND	231	116	200	19.6		

Surrogate: 1-Chlorooctane 99.3 % 35-147

Surrogate: 1-Chlorooctadecane 111 % 28-171

**Sample ID: S-2 5' (H600487-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3760	16.0	03/08/2016	ND	432	108	400	7.69		

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	03/04/2016	Sampling Date:	03/04/2016
Reported:	03/10/2016	Sampling Type:	Soil
Project Name:	ETZ SWD	Sampling Condition:	Cool & Intact
Project Number:	701712.004.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-2 7' (H600487-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4400	16.0	03/08/2016	ND	432	108	400	7.69		

**Sample ID: S-2 9' (H600487-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3920	16.0	03/08/2016	ND	432	108	400	7.69		

**Sample ID: S-2 11' (H600487-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1260	16.0	03/08/2016	ND	432	108	400	7.69		

**Sample ID: S-2 13' (H600487-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	928	16.0	03/08/2016	ND	432	108	400	7.69		

**Sample ID: S-2 15' (H600487-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	03/08/2016	ND	432	108	400	7.69		

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 03/04/2016  
 Reported: 03/10/2016  
 Project Name: ETZ SWD  
 Project Number: 701712.004.01  
 Project Location: NOT GIVEN

 Sampling Date: 03/04/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-2 17' (H600487-18)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	03/08/2016	ND	432	108	400	7.69		

**Sample ID: S-3 0' (H600487-19)**

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	03/08/2016	ND	2.08	104	2.00	0.193		
Toluene*	<0.050	0.050	03/08/2016	ND	2.03	102	2.00	0.140		
Ethylbenzene*	<0.050	0.050	03/08/2016	ND	1.83	91.3	2.00	0.480		
Total Xylenes*	<0.150	0.150	03/08/2016	ND	5.63	93.8	6.00	0.275		
Total BTEX	<0.300	0.300	03/08/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 98.5 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/08/2016	ND	432	108	400	7.69		

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	03/07/2016	ND	227	114	200	7.80		
DRO >C10-C28	<10.0	10.0	03/07/2016	ND	259	130	200	13.5		

Surrogate: 1-Chlorooctane 97.6 % 35-147

Surrogate: 1-Chlorooctadecane 108 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	03/04/2016	Sampling Date:	03/04/2016
Reported:	03/10/2016	Sampling Type:	Soil
Project Name:	ETZ SWD	Sampling Condition:	Cool & Intact
Project Number:	701712.004.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-3 1' (H600487-20)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/08/2016	ND	432	108	400	7.69		

**Sample ID: S-3 2' (H600487-21)**

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	03/08/2016	ND	432	108	400	7.69		

**Sample ID: S-3 3' (H600487-22)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	03/08/2016	ND	432	108	400	7.69		

**Sample ID: S-3 4' (H600487-23)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	03/08/2016	ND	432	108	400	7.69		

**Sample ID: S-3 5' (H600487-24)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/08/2016	ND	432	108	400	7.69		

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 03/04/2016  
 Reported: 03/10/2016  
 Project Name: ETZ SWD  
 Project Number: 701712.004.01  
 Project Location: NOT GIVEN

 Sampling Date: 03/04/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-4 0' (H600487-25)**

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	03/08/2016	ND	2.08	104	2.00	0.193		
Toluene*	<0.050	0.050	03/08/2016	ND	2.03	102	2.00	0.140		
Ethylbenzene*	<0.050	0.050	03/08/2016	ND	1.83	91.3	2.00	0.480		
Total Xylenes*	<0.150	0.150	03/08/2016	ND	5.63	93.8	6.00	0.275		
Total BTEX	<0.300	0.300	03/08/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 98.0 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/08/2016	ND	432	108	400	7.69		

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	03/07/2016	ND	227	114	200	7.80		
DRO >C10-C28	<10.0	10.0	03/07/2016	ND	259	130	200	13.5		

Surrogate: 1-Chlorooctane 94.2 % 35-147

Surrogate: 1-Chlorooctadecane 107 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 03/04/2016  
 Reported: 03/10/2016  
 Project Name: ETZ SWD  
 Project Number: 701712.004.01  
 Project Location: NOT GIVEN

 Sampling Date: 03/04/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-5 0' (H600487-26)**

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	03/08/2016	ND	2.08	104	2.00	0.193	
Toluene*	<0.050	0.050	03/08/2016	ND	2.03	102	2.00	0.140	
Ethylbenzene*	<0.050	0.050	03/08/2016	ND	1.83	91.3	2.00	0.480	
Total Xylenes*	<0.150	0.150	03/08/2016	ND	5.63	93.8	6.00	0.275	
Total BTEX	<0.300	0.300	03/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/08/2016	ND	432	108	400	7.69	

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	03/07/2016	ND	227	114	200	7.80	
DRO >C10-C28	<10.0	10.0	03/07/2016	ND	259	130	200	13.5	

Surrogate: 1-Chlorooctane 96.2 % 35-147

Surrogate: 1-Chlorooctadecane 103 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	03/04/2016	Sampling Date:	03/04/2016
Reported:	03/10/2016	Sampling Type:	Soil
Project Name:	ETZ SWD	Sampling Condition:	Cool & Intact
Project Number:	701712.004.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-6 0' (H600487-27)**

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	03/08/2016	ND	2.08	104	2.00	0.193	
Toluene*	<0.050	0.050	03/08/2016	ND	2.03	102	2.00	0.140	
Ethylbenzene*	<0.050	0.050	03/08/2016	ND	1.83	91.3	2.00	0.480	
Total Xylenes*	<0.150	0.150	03/08/2016	ND	5.63	93.8	6.00	0.275	
Total BTEX	<0.300	0.300	03/08/2016	ND					

*Surrogate: 4-Bromofluorobenzene (PID 98.0 % 73.6-140)*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/08/2016	ND	432	108	400	7.69	

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	03/08/2016	ND	227	114	200	7.80	
DRO >C10-C28	<10.0	10.0	03/08/2016	ND	259	130	200	13.5	

*Surrogate: 1-Chlorooctane 95.5 % 35-147*
*Surrogate: 1-Chlorooctadecane 108 % 28-171*

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
- 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

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Talon/LPE

P.O. #:

Project Manager: S. Hitchcock

Company: Talon/LPE

Address: 408 W. Texas Ave.

Attn:

City: Artesia

State: NM Zip: 88210

Phone #: 575-746-8768

Fax #: 575-746-8905

Project #: 701712, 00401

Project Owner: Pyote

Project Name: FT2 SWD

City: State: Zip:

Project Location:

Phone #: Fax #:

Sampler Name: S. Hitchcock

FOR LAB USE ONLY

Lab I.D.:

Sample I.D.:

(G)RAB OR (C)OMP.

# CONTAINERS

MATRIX

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH

BTEX

Chlorides

Yes No Add'l Phone #:

Fax Result: Yes No Add'l Fax #:

REMARKS:

Sample Condition

Cool Intact

Yes No

Checked By: (Initials)

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Relinquished By:

Received By:

Date:

Time:

5.80c

#54

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Page 14 of 16

16 1 or 3



**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Talon/LPE  
 Project Manager:  
 Address: 408 W. Texas Ave.  
 City: Artesia State: NM zip: 88210  
 Phone #: 575-746-8768 Fax #: 575-746-8905  
 Project #: Project Owner:  
 Project Name: FT2 SLD  
 Project Location:  
 Sampler Name:  
 FOR LAB USE ONLY

P.O. #: Company: Talon/LPE  
 Address: City: State: Zip:  
 Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH	BTEx	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
11	5-2 4'	G	1	/	/	/	/	/	/	3/4/16	11:08	/	/	/
12	5-2 5'	G	1	/	/	/	/	/	/		11:12	/	/	/
13	5-2 7'	G	1	/	/	/	/	/	/		11:14	/	/	/
14	5-2 9'	G	1	/	/	/	/	/	/		11:15	/	/	/
15	5-2 11'	G	1	/	/	/	/	/	/		11:16	/	/	/
16	5-2 13'	G	1	/	/	/	/	/	/		11:19	/	/	/
17	5-2 15'	G	1	/	/	/	/	/	/		11:20	/	/	/
18	5-2 17'	G	1	/	/	/	/	/	/		11:50	/	/	/
19	5-3 0'	G	1	/	/	/	/	/	/		11:52	/	/	/
20	5-3 1'	G	1	/	/	/	/	/	/			/	/	/

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Relinquished By: *Shirley N. W.* Date: *3/4/16* Time: *2:15*  
 Received By: *Spacie Benson*

Delivered By: (Circle One)  UPS  Bus  Other: *5.00*  
 Sample Condition: Cool  Intact  Yes  No  Yes  No

Checked By: *[Signature]*  
 Phone Result:  Yes  No Add'l Phone #:  
 Fax Result:  Yes  No Add'l Fax #:  
 REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 #54

462023



**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Talon/LPE  
 Project Manager:  
 Address: 408 W. Texas Ave.  
 City: Artesia State: NM Zip: 88210  
 Phone #: 575-746-8768 Fax #: 575-746-8905  
 Project #: Project Owner:  
 Project Name: FT2 SLD  
 Project Location:  
 Sampler Name:  
 FOR LAB USE ONLY

P.O. #: Company: Talon/LPE  
 Attn: Address:  
 City: State: Zip:  
 Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H100487												
41	5-3-21	G	1						3/4/15	11:54	TPH	
22	5-3-31	G	1							11:56	BTEX	
23	5-3-41	G	1							11:58	Chlorides	
24	5-3-51	G	1							2:00		
25	5-4-01	G	1							11:06		
26	5-5-01	G	1							11:05		
27	5-6-01	G	1							11:10		

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Relinquished By: *Sharon Nic*  
 Date: 3/4/15 Time: 2:15  
 Received By: *Scott Jensen*  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_

Delivered By: (Circle One)  
 Sampler - UPS - Bus - Other: 5.82  
 Sample Condition: Cool  Intact   
 Yes  No

Checked By: *[Signature]*  
 Phone Result:  Yes  No  
 Add'l Phone #: \_\_\_\_\_  
 Fax Result:  Yes  No  
 Add'l Fax #: \_\_\_\_\_

REMARKS:

\* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 #54

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