### RECEIVED By JKeyes at 1:28 pm, Mar 28, 2016

Requested modifications to be made to work plan. Comments can be seen through out work plan.



Work Plan Pyote Well Service, LLC: A N ETZ #001 |30-025-07713|1RP-3415|

March 24, 2016

#### Prepared By:

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

#### **Prepared For:**

Pyote Well Service, LLC

Ms. Kellie Jones **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 Ms. Jones,

Pyote Well Service (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). 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 **1,000** mg/kg for total chlorides.

RRAL for Chlorides with depth to groundwater at 64' bgs is 500 mg/kg.

#### **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,  $\frac{2016}{2015}$ 

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		E

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 Deli	neation value is 250 mg	/kg, S-2 Not fully delir
S-3	0	ND	112	ND	ND
S-3	1		64		
S-3	2	( - 1) ( - <b></b>	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

S-3 is a low lying depression and the location where any spills or surface runoff from precipitation events would pool. It was observed to have standing water on several site visits over an extended period of time. Any contamination as a result from a spill/release will have been pushed downward. Since groundwater is at  $\sim 64 \text{bgs}$  it is important that S-3 be delineated further in order to ensure that no impact to groundwater has occurred and exactly where, if any, chloride contamination occurs.

#### **Conclusions and Proposed Remedial Actions**

- The impacted area in the vicinity of sample location S-1 will be excavated to a depth of 3.5-feet BGS.

  4 feet BGS.
- 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. After being completely delineated.
- 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

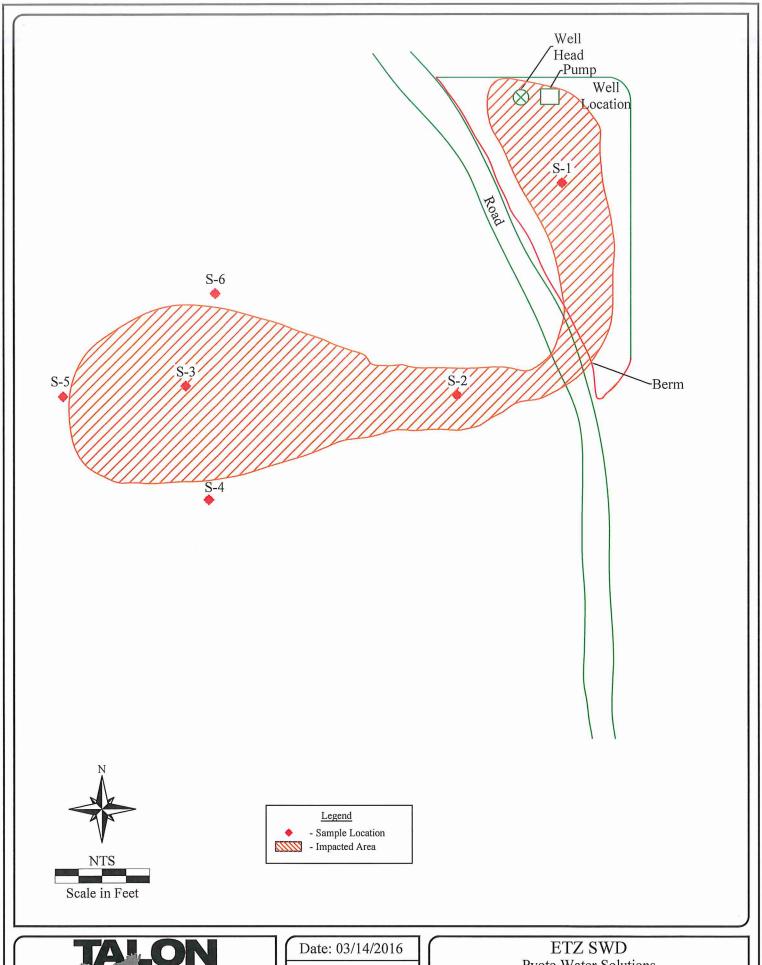
Appendix I Site Plan

Appendix II Groundwater Data

Appendix III Initial C-141

Appendix IV Laboratory Results

### APPENDIX I SITE PLAN





Scale: NTS

Drawn By: TJS

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

Sub-

QQQ

Distance

Depth Depth Water Well Water Column

**POD Number** L 00298 POD5 Code basin County 64 16 4 Sec Tws Rng LE 3 3 3 25 19S 38E

3611275\* 677345

315 112

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

### APPENDIX III INITIAL C-141

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District III
1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

Signature!

Printed Name:

Jerry Burlor

#### State of New Mexico **Energy Minerals and Natural Resources**

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr.

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

OIL CONSERVATION DIVISION

Approved by Environmental Specialist:

1220 0, 01, 110	1013 171., DM16	410,1111 0750.			Santa	Fe, NM 8	375	05			
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			MIDL	AND TX, I						148-491	
Facility Nat	ne <i>ETZ</i> .	SWD		_1RP-3415	i	Facility 7	Гур	e PRODUC	IION V	VAIER I	DISPOSAL
Surface Ow	ner			Minera	ıl Owne					API No	).
I		ER SOLUTI	ONS				R S	SOLUTIONS			30-025-07713
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Unit Letter	Section	Township	Range	Feet from the	e Nor	th/South Lin		Feet from the	East/W	est Line	County
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Was Immedia	ate Notice (	Given?***** [	Yes	***************************************		11-1-17 If VES				11-1-17	8:40 am at OCD office. Tomas called
											for Pyote Water Systems
					_						
By Whom? T	omas from	Hobbs office	;			Date an					A COMPANY OF THE PARTY OF THE P
Was a Water	course Read	ched ******	No No			11-1-17 If YES,		olume Impacting t	the Wate	rcourse.	
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_	se of Probl	em and Remed	dial Action	ı Taken.* <u>t ar</u>	nd nip	ole on we	11	head busted d	8:40 ai	m Jeff r	iotified Jerry that
<u>morning</u>											
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Burton		•				<b>.</b> ,					
I harahy parti	G, that the	nfarmation ai	ivan ahava	in topic and an		the head of		1		J 4L - 4	The National Property of the P
regulations al	l operators	are required to	o report an	ıd/or file certai	in release	notification	s ar	nd perform correc	tive action	ons for rel	suant to NMOCD rules and eases which may endanger
public health should their o	or the envi	conment. The	acceptane	e of a C-141 re	eport by	the NMOCE	) ma	arked as "Final R	eport" do	oes not rel	ieve the operator of liability r, surface water, human health
or the environ	nment. <i>I</i> in a	ddition, NMO	CD accept	tance of a C-1	41 report	does not rel	liev	e the operator of	responsil	bility for c	ompliance with any other
federal, state,	∕or logal lav	ws and/or regu	ılations.								

## 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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



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

Received: Reported: 01/07/2015

01/12/2015

Project Name:

ETZ SWD

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

01/07/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL	93.3 9	% 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8260	16.0	01/08/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	01/07/2015	ND	190	94.9	200	1.64	
DRO >C10-C28	4030	50.0	01/07/2015	ND	177	88.5	200	0.912	
Surrogate: 1-Chlorooctane	89.2 %	% 47.2-157	7						
Surrogate: 1-Chlorooctadecane	172 %	6 52.1-176	í						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene



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

Received: Reported: 01/07/2015

01/12/2015

Project Name: Project Number: ETZ SWD

Project Location:

NONE GIVEN

Sampling Date:

01/07/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

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

BTEX 8021B	mg/l	kg	Analyze	d 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 (PIL	98.4 %	61-154							
Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10500	16.0	01/08/2015	ND	416	104	400	0.00	
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	11.5	10.0	01/07/2015	ND	190	94.9	200	1.64	
DRO >C10-C28	222	10.0	01/07/2015	ND	177	88.5	200	0.912	
Surrogate: 1-Chlorooctane	90.4 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	94.8 %	6 52.1-17	6						

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\*=Accredited Analyte

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Celey D. Keene



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

01/07/2015

Reported:

01/12/2015

Project Name:

**ETZ SWD** 

Project Number: Project Location: NONE GIVEN NOT GIVEN

92.0%

52.1-176

Sampling Date:

01/07/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

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

BTEX	8021B	
------	-------	--

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL	94.8 %	61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	01/08/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 %	6 47.2-15	7						

#### Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Celeg & treens-



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

Received:

01/07/2015

Reported:

01/07/2015

Project Name: Project Number: ETZ SWD

Project Location:

NONE GIVEN

Sampling Date:

01/07/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Jodi Henson

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL	95.5 %	61-154	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	01/08/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	98.8 9	52.1-17	6						

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\*=Accredited Analyte

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Celeg D. Keene



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

Received: 01/07/2015 Reported: 01/12/2015

Project Name: **ETZ SWD** 

Project Number: NONE GIVEN

Project Location: NOT GIVEN Sampling Date:

01/07/2015 Soil

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

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

BTEX 8021B	mg/l	kg	Analyze	d 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 (PIL	95.4%	61-154							
Chloride, SM4500CI-B	mg/l	kg	Analyze	d 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/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 %	6 47.2-152	7						
Surrogate: 1-Chlorooctadecane	93.6%	6 52.1-176	5						

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\*=Accredited Analyte

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Celeg & Kreene



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received: Reported: 01/07/2015

01/12/2015

Project Name:

ETZ SWD

Project Number: Project Location:

NONE GIVEN

Sampling Date:

01/07/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL	96.7 %	6 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6930	16.0	01/08/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	90.69	6 47.2-157	7						
Surrogate: 1-Chlorooctadecane	90.69	6 52.1-170	5						

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Celey D. Keine



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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Celeg D. Keens



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

(0.0) 000 =0=0(0.0)			ANALYSIS DECLIEST	ITCT
Company Name: Talon/LPE	111111111111111111111111111111111111111	BILLIO	ANALISIS NEWS	)EST
Project Manager: \$ 5, Hitch Coch	P.O. #:	*		0
Address: 408 W. Texas Ave.	Соп	Company: Talon/LPE		
city: Artesia state: NM zip: 88210	p: 88210 Attn:			
Phone #: 575-746-8768 Fax #: 575-746-8905		Address:		
Project #: Project Owner: P \ O + C	OYOTO City:			
Project Name: [ 7 5 6 0	State:	e: Zip:		
Project Location:	Pho	Phone #:		
Sampler Name: 5, HHH/W/O/A	Fax #:		<u></u>	
	MATRIX	PRESERV. SAMPLING	de	
Lab I.D. Sample I.D.	CONTAINERS BROUNDWATER VASTEWATER SOIL DIL SLUDGE DTHER:	ACID/BASE: CE / COOL DTHER :	TPH BTGX Unlorg	
15-10'	_	11/7/15 10	6:35	
2 3-11 republi	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		0:37	
	61	/	(h) (h)	
5-21/50/1601	6	7	0.56.	
	6-1			
10 5-7 1/ repusal	-		0:55	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or too, shall be limited to the amount paid by the client for the	claim arising whether based in contract or tort	shall be limited to the amount paid by	he client for the	
analyses. All claims including those for negligence and any other cause whatboover shall be determed valued unless finate in writing and recurred by claim. It is subcliding, service, in no event shall Cardinal be liable for incidental or consequential damages, including without installation, business interruptions, loss of use, or loss of profits notioned by claim, it is subcliding, service, in no event shall Cardinal be liable for incidential or consequential damages, including without installation, business interruptions, loss of use, or loss of profits honored by claim is a state of upon any of the above stated reasons or otherwise.	imed waived unless made in writing and received thout limitation, business interruptions, loss of thout limitation, business interruptions, loss of the limit is base since the claim is base.	use, or loss of profits incurred by cliented by cliented by cliented by cliented upon any of the above stated reason	its subedianes, or otherwise.	
Relinquished By: Date 115	Regeived By:	0.0	Phone Result:	
>	100	RANGE		

20

Sample Condition
Cool Intact
Yes Yes
No No

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Time:



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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keens

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



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: Project Location:

701712.004.01 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	Analyze	d 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	% 73.6-14	0						
Chloride, SM4500Cl-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	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 9	% 28-171							

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

Chloride, SM4500CI-B	mg,	'kg	Analyze	lyzed 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	

#### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

03/04/2016

Reported:

03/10/2016 **ETZ SWD** 

Project Name: Project Number:

701712.004.01

Project Location:

Analyte

Analyte

Analyte

Analyte

NOT GIVEN

Result

8660

Sampling Date:

03/04/2016

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

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

Chloride, SM4500CI-B

mg/kg

Reporting Limit

16.0

Reporting Limit

Reporting Limit

Reporting Limit

16.0

Analyzed By: AP

Analyzed

03/08/2016

Analyzed

Analyzed

Analyzed

03/08/2016

Method Blank

ND

BS % Recovery True Value QC 400

RPD

Qualifier

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

432

108

7.69

**RPD** 

7.69

Chloride

Chloride

3760

Result

16.0 03/08/2016 Method Blank ND

BS 432

BS

432

% Recovery 108

True Value QC 400

Qualifier

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

ND

% Recovery

True Value QC

Qualifier

Chloride

Chloride

Result 608

Result

80.0

03/08/2016 16.0

Method Blank

108

400

RPD 7.69

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Method Blank

ND

BS

432

% Recovery

108

True Value QC

400

RPD

7.69

Qualifier

Cardinal Laboratories

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Celeg D. Keene



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	Analyze	d 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 %	6 73.6-14	0						
Chloride, SM4500CI-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	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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, SM4500CI-B	mg	/kg	Analyze	d 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



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received: Reported: 03/04/2016

03/10/2016

**ETZ SWD** 

Project Name: Project Number:

701712.004.01

Project Location:

NOT GIVEN

Sampling Date:

03/04/2016

Sampling Type:

BS

432

BS

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

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

Chloride, SM45000	'I-R

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

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

Result

4160

Reporting Limit

16.0

Analyzed 03/08/2016

03/08/2016

ND

Method Blank

% Recovery

108

True Value QC 400

RPD 7.69

7.69

Qualifier

Chloride

Chloride

mg/kg

Analyzed By: AP

Result Reporting Limit Analyte 4720 16.0

Analyzed

Method Blank ND

% Recovery 432 108

True Value QC 400

**RPD** Qualifier

Cardinal Laboratories

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Celley D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 16



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: Project Location:

701712.004.01

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/l	(g	Analyze	d 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 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	111 %	6 28-171	į.						

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	

#### Cardinal Laboratories

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Celey D. Keine



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

03/04/2016 Received: Reported: 03/10/2016

**ETZ SWD** Project Name: Project Number: 701712.004.01

NOT GIVEN Project Location:

Sampling Date:

BS

03/04/2016

Sampling Type: Soil

% Recovery

Cool & Intact

True Value QC

Sampling Condition: Sample Received By:

Jodi Henson

RPD

Qualifier

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

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AP			
Analyte	Result	Reporting Limit	Analyzed	Method Blank		

432 108 400 7.69 03/08/2016 ND Chloride 4400 16.0

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

Analyte

Chloride, SM4500CI-B	mg/	kg	Analyzed	d 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	Analyze	d 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	Analyze	d 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	Analyze	d 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	

#### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



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: Project Number: **ETZ SWD** 701712.004.01

Project Location:

Analyte

NOT GIVEN

Result

368

Sampling Date:

03/04/2016

Sampling Type:

BS

432

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

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

Chloride, SM4500CI-B

Chloride

mg/kg

Reporting Limit

16.0

Analyzed By: AP

Method Blank

ND

Analyzed

03/08/2016

% Recovery

108

True Value QC

400

RPD 7.69 Qualifier

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

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	98.5	% 73.6-14	0						

Surrogate: 4-Bromofluorobenzene (PIL	98.5	% /3.6-140	li de la companya de						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 & Keene



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: Project Location:

701712.004.01

NOT GIVEN

Sampling Date:

03/04/2016

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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' (H6004	87-21)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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' (H6004	•								
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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' (H6004	87-23)								
Chloride, SM4500CI-B		/kg	Analyze	d 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' (H6004	-								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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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Received:

03/04/2016

Reported:

03/10/2016

Project Name: Project Number: ETZ SWD 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	Analyze	d 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 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 9	6 28-171							

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Received:

03/04/2016

Reported:

03/10/2016

Project Name:

ETZ SWD

Project Number: Project Location:

701712.004.01 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)

	mg/	кд	Analyze	I 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	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d 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	
Chloride TPH 8015M	<16.0 mg/		3,	ND d By: CK	432	108	400	7.69	
			3,		432 BS	108 % Recovery	400 True Value QC	7.69 RPD	Qualifier
TPH 8015M	mg/	′kg	Analyze	d By: CK			3,440	(, 0,00	Qualifier
TPH 8015M  Analyte	mg, Result	Reporting Limit	Analyze Analyzed	d By: CK  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte GRO C6-C10	Result <10.0	Reporting Limit 10.0 10.0	Analyzed Analyzed 03/07/2016 03/07/2016	Method Blank	BS 227	% Recovery	True Value QC	RPD 7.80	Qualifier

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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:

e:

03/04/2016

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

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

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 9	6 28-171							

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#### **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. Keine



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

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	Menson	SI setting
ssult: ☐ Yes ☐ No Add'l Fnorie #:	Phone Result:	affiliates of successors arising out of or related to the performance of services hereunder by cardinal regiziness of whomes accordance of services hereunder by cardinal regiziness of whomes accordance of the performance of services hereunder by cardinal regiziness of whomes accordance of the performance of services hereunder by cardinal regiziness of whomes accordance of the performance of services hereunder by cardinal regiziness of whomes accordance of the performance of services hereunder by cardinal regiziness of whomes accordance of the performance of services hereunder by cardinal regiziness of whomes accordance of the performance of services hereunder by cardinal regiziness of whomes accordance of the performance of services hereunder by cardinal regiziness of whomes accordance of the performance of services hereunder by cardinal regiziness of whomes accordance of the performance of services hereunder by cardinal regiziness of whomes accordance of the performance of services hereunder by cardinal regiziness of whomes accordance of the performance of services hereunder by cardinal regiziness of whomes accordance of the performance of services hereunder by cardinal regiziness of whomes accordance of the performance of services hereunder by cardinal regiziness of the performance
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	Address:	-746-8768 Fax #: 575-74
	Attn:	
	Company:  alon/LPE	
	P.O. #:	Project Manager: 5, Hitch Look
	BILL 10	Company Name: Talon/LPE
ANALYSIS REQUEST		(575) 393-2326 FAX (575) 393-2476

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:



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

MATRIX  MATRIX  MATRIX  MATRIX  MATRIX  MATRIX  SOIL  OIL  SLUDGE  OTHER:  DOTHER:	ANALYSIS REQUEST
Project Manager:  Address: 408 W. Texas Ave.  State: NM zip: 88210 Attn:  Project Name: 575-746-8768 Fax #: 575-746-8905 Address: 575-746-8905 Address: 575-746-8768 Fax #: 575-746-8905 Address: 575	8/4
Address: 408 W. Texas Ave.  State: NM zip: 88210 Attn.  City: Artesia	
City: Artesia State: NM zip: 88210 Attn: Phone #: 575-746-8768 Fax #: 575-746-8905 Addr Phone #: 575-746-8905 Addr Phone #: 575-746-8905 Addr Phone #: 575-746-8905 Addr City: Project Location: Pax # Sample I.D. Received By: Circle One)    Project Location: Project Country   Project Country   Project Location: Pax # Sample Location: Project Location: Project Country   Project Location: Project Location: Project Country   Project Location: Pr	Company:  alon/LPE
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PLEASE NOTE: Lubality and Chamages. Cardinal's leability and client's exclusive remorp for any claim arising whether based in contract or lot.  PLEASE NOTE: Lubality and Chamages. Cardinal's leability and client's exclusive remorp for any claim arising whether based in contract or lot.  Service. In no event shall Cardinal be labele for incidental or consequential damages, moduling whether during and necessary arising out of or related to the performance of services hereundors by Cardinal Recipited By:  Relinquished By:  Tipps:  Relinquished By:  Tipps:  Recipited By:  Circle One)  Sample Condition  Sample Condition	
PLEASE NOTE: Luability and Chanages. Continuits is abolity and clearity exclusive remedy for any claim aroung whether based in contract or both analyses. All claims including those for negligence and any other cause whatsoever shall be deemed whether based in contract or both analyses. All claims including those for negligence and any other cause whatsoever shall be deemed whether based in which gard nearly and claims in the sentiment or sourcessor arising out of or related to the performance of services hereurothe by Cautinal regardless of whether such claim is based neither an accessor arising out of or related to the performance of services hereurothe by Cautinal regardless of whether such claim is based neither an accessor arising out of or related to the performance of services hereurothe by Cautinal regardless of whether such claim is based neither an accessor arising out of or related to the performance of services hereurothe by Cautinal regardless of whether such claim is based neither an accessor arising out of or related to the performance of services hereurothe by Cautinal regardless of whether such claim is based neither or accessor arising out of or related to the performance of services hereurother by Cautinal regardless of whether such claim is based neither an accessor arising out of or related to the performance of services hereurother by Cautinal regardless and whether such claim is based neither and performance of services hereurother by Cautinal regardless and whether such claim is based and contract or total.  Received By:  Received By:  Received By:  Received By:  Timps:  Sample Condition  Sample Condition	1118
PLEASE NOTE: Liability and Damagos. Continuit's liability and client's evolutive remedy for any client arrang whether based in contract or text, analyses. All clients including those for mediginations and any other cause whatboover shall be deemed waived unless made in witting and receive service. In no event shall Cardinal be liable for incidental or consequential damagos, including without limitation, business interruptions, loss of militates or successors arising out of or related to the performance of services hereused by Cardinal angularities of whicher such claim is based.  Relinquished By:  Relinquished By:  Relinquished By:  Timps:  Relived By:  Relived By:  Relived By:  Timps:  Relived By:  Relived By:  Relived By:	1:20
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# 101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476		ANALYSIS REQUEST
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Project Manager:		
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Page 16 of 16

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 398-2326