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Soil Assessment and Remediation Work Plan

State AC #1 SWD * 30-025-03646 * 1RP-3588

Talon Project No. 701048.011.01

Prepared For:

Aspen Operating Company, LLC
1300 S. University Dr., Suite 200
Ft. Worth, TX 76107

Prepared By:

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

September 23, 2016

Ms. Kristen Lynch
NMOCD District I
1625 N. French Dr.
Hobbs, NM 88240

Subject: **Soil Assessment and Remediation Work Plan**
Aspen Operating Company, LLC
State AC #1 SWD * 30-025-03646 * 1RP-3588

Dear Ms. Lynch,

Aspen Operating has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

Site Information

The State AC #1 SWD is located approximately forty (42) miles north of Lovington, New Mexico. The legal location for this release is Unit Letter N, Section 15, Township 10 South and Range 36 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 33.44249 North and -103.25071 West. A site plan is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services (NRSC) the soil in this area is made up of Kermit soils and dune land with 0 to 12 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology, Quaternary Age sedimentary deposits, is comprised of alluvium and eolian sands which includes silty soils underlain by dense caliche layers. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

The New Mexico State Engineer web site indicates the nearest ground water data to be in S28-T10S-R36E. The ground water in Section 28 is reported to be at depth of 120' below ground surface (BGS). See [Appendix II](#) for the referenced groundwater data.

Therefore the ranking for this site is a **0** based on the following:

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

Based upon the site ranking of **0**, 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.

Incident Description and Initial Remedial Actions

On March 27, 2015 the Murphy level switch failed to activate and start the injection pump which caused the SWD tank to overflow releasing 700 barrels of produced water into the berm of the facility. A vac truck was immediately called to the location and 655 barrels were recovered. The facility was shut-in and the wells associated with the SWD were also shut-in until everything was calibrated. See initial C-141 in [Appendix II](#).

A site assessment and soil sampling activities for the construction of a work plan was performed. Initial soil samples were collected utilizing a hand auger to a depth of 4-feet deep. On August 25, 2016 a backhoe was mobilized for further vertical delineation of the impacted areas. The results of our soil sampling activities are summarized in the table below.

Laboratory Results

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

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0'	6.32	6880	445	2800
	1'	3.9	3360	197	4110
	2'	1.84	1090	217	4600
	3'	1.11	880	178	3810
	4'	<0.300	1040	27.1	1070
	5'	--	294	--	--
S-2	0'	<0.300	26800	<50	3120
	1'	0.555	13200	50.2	2780
	2'	<0.300	4560	<10	83.6
	3'	<0.300	4880	<10	61.4
	4'	<0.300	4000	<10	<10
	5'	--	73.2	--	--
	7'	--	880	--	--
S-3	0'	0.317	64	<50	863
	1'	<0.300	32	<50	196
	2'	<0.300	48	<10	<10
	3'	<0.300	48	<10	<10
S-4	0'	--	28.9	--	--
	3'	--	13.5	--	--
	5'	--	13	--	--
BG	1'	<0.300	<16	<10	<10

(--) Analyte Not Tested

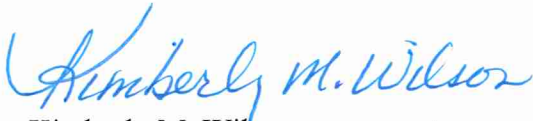
Proposed Remedial actions

- To avoid compromising the structural integrity of the tanks within the impacted battery, the soil will be excavated to a depth of 2-foot deep. On behalf of Aspen Operating, we request that the remainder of the impacted soil be remediated upon the closure of the facility.
- The excavated soil will be transported to a NMOCD approved solid waste disposal facility.
- The excavated area will be backfilled with new caliche, machine compacted and contoured to match the surrounding location. The berms will be repaired.
- A final closure report documenting the remedial actions, a final C-141 and seeding labels will be provided to the NMOCD District I Hobbs Office and NMSLO.

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

Respectfully submitted,

TALON/LPE



Kimberly M. Wilson
Project Manager



David J. Adkins
District Manager

Attachments:

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

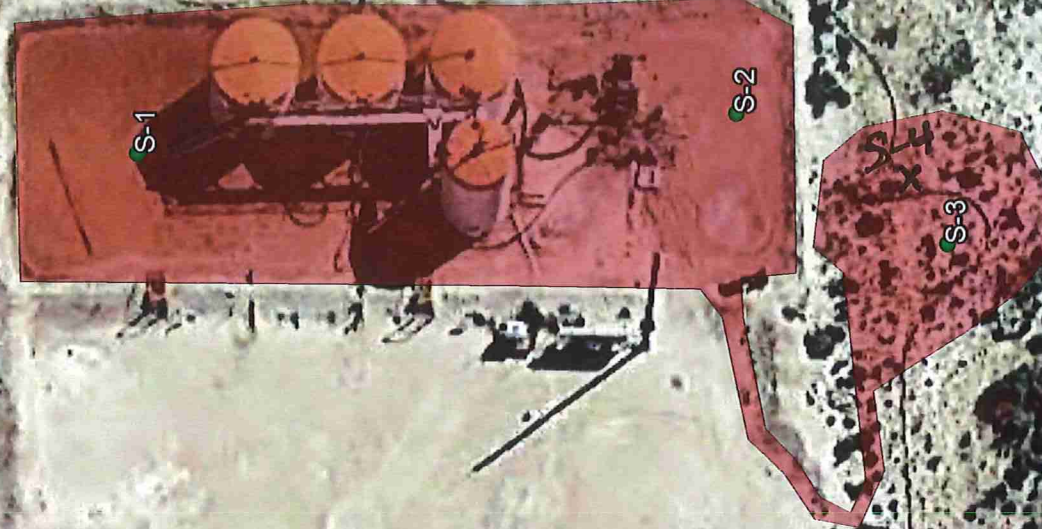
Aspen Operating

State T.P. 'A' State Battery

Legend

- Aspen Operating T.P. "A" State Battery
- Sample Points
- Impacted Area

Aspen Operating T.P. "A" State Battery



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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Aspen Operating Company, LLC	Contact	Michael Wilson
Address	1300 S. University Dr., Suite 200, Ft Worth, 76107	Telephone No.	817-455-2311
Facility Name	State AC Battery	Facility Type	SWD Battery
Surface Owner	Garth Coombes	Mineral Owner	State of NM
		API No.	30-025-03646

LOCATION OF RELEASE was at the Battery

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	15	10S	36E	660	S	1980	W	LEA

Latitude 33.44249 N Longitude -103.25071 W

NATURE OF RELEASE

3/27/15, 12:00 AM.

Type of Release	Produced Water at the Battery	Volume of Release	700 BBLs.	Volume Recovered	655 BBLs
Source of Release	SWD Tank at Batter over flow	Date and Hour of Occurrence	Date and Hour of Discovery 3/27/15		
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Donna Mull, 3/27/15, 1:02 PM left mssg./8:00 AM Mark Whitaker 3/27/15 @ 1:27 PM. Left Message.		
By Whom?	Larry Spittler	Date and Hour	3/27/15 @ 1:00 PM		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

No

RECEIVED

By OCD; Dr. Oberding at 2:24 pm, Mar 30, 2015



Describe Cause of Problem and Remedial Action Taken.*

* The Murphey level switch on the SWD tank failed to activate and start up the injection pump at the SWD facility causing the SWD tank to high level and over flow. The SWD facility does have a SCADA alarm system which also failed in sending out a High Level Alarm to the lease operator. Shut down the wells going to the facility. Called out a SCADA Tech and injection pump Tech to service the equipment. Found and replaced a shorted out electric motor on the injection pump. Murphy Level Switch Repaired.

Describe Area Affected and Cleanup Action Taken.*

Tank Battery & Pasture. Called out vacuum truck to vacuum up the standing produced water. Called out a SCADA tech and conducted systems test. Calibrated and reset the SCADA high level alarms. Conducted a PM on the injection pump to insure the pump is properly working.

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: 	OIL CONSERVATION DIVISION	
Printed Name: Michael Wilson	Hydrologist	Approved by Environment Specialist: 
Title: Production Manager	Approval Date: 03/30/2015	Expiration Date: 06/30/2015
E-mail Address: mwilson@aspen-oil.com	Conditions of Approval: Site samples required. Delineate and remediate area as per NMOCD guides	Attached <input type="checkbox"/> IRP-3588 217598
Date: 3/30/2015 Phone: 817-455-2311		

* Attach Additional Sheets If Necessary

nTO1508953224

pTO1508953401



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has
been replaced,
O=orphaned,
C=the file is
closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 12267 POD1	L	LE		1	1	1	28	10S	36E	660885	3699687	3174	200	120	80

Average Depth to Water: 120 feet

Minimum Depth: 120 feet

Maximum Depth: 120 feet

Record Count: 1

Basin/County Search:

County: Lea

UTMNAD83 Radius Search (in meters):

Easting (X): 663394

Northing (Y): 3701631

Radius: 3200

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.



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

July 25, 2016

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: T.P.'A' STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/20/16 11:06.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 07/20/2016
 Reported: 07/25/2016
 Project Name: T.P.'A' STATE BATTERY
 Project Number: 701048.011.01
 Project Location: NORTH CHAVEZ COUNTY (TATUM)

 Sampling Date: 07/19/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Angela Cabrera

Sample ID: S-1 0' (H601621-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	07/21/2016	ND	2.14	107	2.00	0.449	
Toluene*	0.329	0.200	07/21/2016	ND	2.18	109	2.00	0.792	
Ethylbenzene*	<0.200	0.200	07/21/2016	ND	2.10	105	2.00	0.403	
Total Xylenes*	5.99	0.600	07/21/2016	ND	6.31	105	6.00	0.389	
Total BTEX	6.32	1.20	07/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 124 % 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	6880	16.0	07/21/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	445	100	07/20/2016	ND	185	92.6	200	3.78		
DRO >C10-C28	28000	100	07/20/2016	ND	186	92.9	200	9.84		

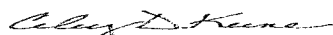
Surrogate: 1-Chlorooctane 115 % 35-147

Surrogate: 1-Chlorooctadecane 1030 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

 Received: 07/20/2016
 Reported: 07/25/2016
 Project Name: T.P.'A' STATE BATTERY
 Project Number: 701048.011.01
 Project Location: NORTH CHAVEZ COUNTY (TATUM)

 Sampling Date: 07/19/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Angela Cabrera

Sample ID: S-1 1' (H601621-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/21/2016	ND	2.14	107	2.00	0.449	
Toluene*	0.119	0.100	07/21/2016	ND	2.18	109	2.00	0.792	
Ethylbenzene*	<0.100	0.100	07/21/2016	ND	2.10	105	2.00	0.403	
Total Xylenes*	3.78	0.300	07/21/2016	ND	6.31	105	6.00	0.389	
Total BTEX	3.90	0.600	07/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 129 % 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	3360	16.0	07/21/2016	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	197	50.0	07/20/2016	ND	185	92.6	200	3.78	
DRO >C10-C28	4110	50.0	07/20/2016	ND	186	92.9	200	9.84	

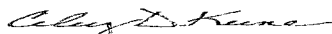
Surrogate: 1-Chlorooctane 122 % 35-147

Surrogate: 1-Chlorooctadecane 128 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/20/2016	Sampling Date:	07/19/2016
Reported:	07/25/2016	Sampling Type:	Soil
Project Name:	T.P.'A' STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701048.011.01	Sample Received By:	Angela Cabrera
Project Location:	NORTH CHAVEZ COUNTY (TATUM)		

Sample ID: S-1 2' (H601621-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/21/2016	ND	2.14	107	2.00	0.449	
Toluene*	<0.100	0.100	07/21/2016	ND	2.18	109	2.00	0.792	
Ethylbenzene*	<0.100	0.100	07/21/2016	ND	2.10	105	2.00	0.403	
Total Xylenes*	1.84	0.300	07/21/2016	ND	6.31	105	6.00	0.389	
Total BTEX	1.84	0.600	07/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 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	1090	16.0	07/21/2016	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	217	50.0	07/20/2016	ND	185	92.6	200	3.78	
DRO >C10-C28	4600	50.0	07/20/2016	ND	186	92.9	200	9.84	

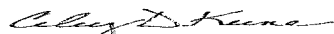
Surrogate: 1-Chlorooctane 136 % 35-147

Surrogate: 1-Chlorooctadecane 124 % 28-171

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*=Accredited Analyte

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

Received:	07/20/2016	Sampling Date:	07/19/2016
Reported:	07/25/2016	Sampling Type:	Soil
Project Name:	T.P.'A' STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701048.011.01	Sample Received By:	Angela Cabrera
Project Location:	NORTH CHAVEZ COUNTY (TATUM)		

Sample ID: S-1 3' (H601621-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/21/2016	ND	2.14	107	2.00	0.449	
Toluene*	<0.100	0.100	07/21/2016	ND	2.18	109	2.00	0.792	
Ethylbenzene*	<0.100	0.100	07/21/2016	ND	2.10	105	2.00	0.403	
Total Xylenes*	1.11	0.300	07/21/2016	ND	6.31	105	6.00	0.389	
Total BTEX	1.11	0.600	07/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 125 % 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	880	16.0	07/21/2016	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	178	50.0	07/20/2016	ND	185	92.6	200	3.78	
DRO >C10-C28	3810	50.0	07/20/2016	ND	186	92.9	200	9.84	

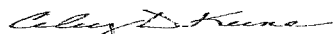
Surrogate: 1-Chlorooctane 147 % 35-147

Surrogate: 1-Chlorooctadecane 135 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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 Fax To: (575) 745-8905

Received:	07/20/2016	Sampling Date:	07/19/2016
Reported:	07/25/2016	Sampling Type:	Soil
Project Name:	T.P.'A' STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701048.011.01	Sample Received By:	Angela Cabrera
Project Location:	NORTH CHAVEZ COUNTY (TATUM)		

Sample ID: S-1 4' (H601621-05)

BTX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/21/2016	ND	2.14	107	2.00	0.449		
Toluene*	<0.050	0.050	07/21/2016	ND	2.18	109	2.00	0.792		
Ethylbenzene*	<0.050	0.050	07/21/2016	ND	2.10	105	2.00	0.403		
Total Xylenes*	<0.150	0.150	07/21/2016	ND	6.31	105	6.00	0.389		
Total BTX	<0.300	0.300	07/21/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 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	1040	16.0	07/21/2016	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	27.1	10.0	07/20/2016	ND	185	92.6	200	3.78	
DRO >C10-C28	1070	10.0	07/20/2016	ND	186	92.9	200	9.84	

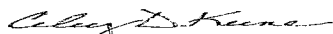
Surrogate: 1-Chlorooctane 101 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/20/2016
Reported: 07/25/2016
Project Name: T.P.'A' STATE BATTERY
Project Number: 701048.011.01
Project Location: NORTH CHAVEZ COUNTY (TATUM)

Sampling Date: 07/19/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Angela Cabrera

Sample ID: S-2 0' (H601621-06)

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	07/21/2016	ND	2.14	107	2.00	0.449	
Toluene*	<0.050	0.050	07/21/2016	ND	2.18	109	2.00	0.792	
Ethylbenzene*	<0.050	0.050	07/21/2016	ND	2.10	105	2.00	0.403	
Total Xylenes*	<0.150	0.150	07/21/2016	ND	6.31	105	6.00	0.389	
Total BTEX	<0.300	0.300	07/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 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	26800	16.0	07/21/2016	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	07/20/2016	ND	185	92.6	200	3.78	
DRO >C10-C28	3120	50.0	07/20/2016	ND	186	92.9	200	9.84	

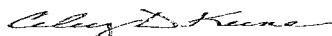
Surrogate: 1-Chlorooctane 86.7 % 35-147

Surrogate: 1-Chlorooctadecane 149 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/20/2016	Sampling Date:	07/19/2016
Reported:	07/25/2016	Sampling Type:	Soil
Project Name:	T.P.'A' STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701048.011.01	Sample Received By:	Angela Cabrera
Project Location:	NORTH CHAVEZ COUNTY (TATUM)		

Sample ID: S-2 1' (H601621-07)

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	07/21/2016	ND	2.14	107	2.00	0.449	
Toluene*	<0.050	0.050	07/21/2016	ND	2.18	109	2.00	0.792	
Ethylbenzene*	<0.050	0.050	07/21/2016	ND	2.10	105	2.00	0.403	
Total Xylenes*	0.555	0.150	07/21/2016	ND	6.31	105	6.00	0.389	
Total BTEX	0.555	0.300	07/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 122 % 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	13200	16.0	07/21/2016	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	50.2	50.0	07/20/2016	ND	185	92.6	200	3.78	
DRO >C10-C28	2780	50.0	07/20/2016	ND	186	92.9	200	9.84	

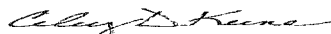
Surrogate: 1-Chlorooctane 98.5 % 35-147

Surrogate: 1-Chlorooctadecane 134 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/20/2016	Sampling Date:	07/19/2016
Reported:	07/25/2016	Sampling Type:	Soil
Project Name:	T.P.'A' STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701048.011.01	Sample Received By:	Angela Cabrera
Project Location:	NORTH CHAVEZ COUNTY (TATUM)		

Sample ID: S-2 2' (H601621-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2016	ND	2.14	107	2.00	0.449	
Toluene*	<0.050	0.050	07/21/2016	ND	2.18	109	2.00	0.792	
Ethylbenzene*	<0.050	0.050	07/21/2016	ND	2.10	105	2.00	0.403	
Total Xylenes*	<0.150	0.150	07/21/2016	ND	6.31	105	6.00	0.389	
Total BTX	<0.300	0.300	07/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PII) 104 % 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	07/21/2016	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	07/20/2016	ND	185	92.6	200	3.78	
DRO >C10-C28	83.6	10.0	07/20/2016	ND	186	92.9	200	9.84	

Surrogate: 1-Chlorooctane 88.7 % 35-147

Surrogate: 1-Chlorooctadecane 89.6 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/20/2016	Sampling Date:	07/19/2016
Reported:	07/25/2016	Sampling Type:	Soil
Project Name:	T.P.'A' STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701048.011.01	Sample Received By:	Angela Cabrera
Project Location:	NORTH CHAVEZ COUNTY (TATUM)		

Sample ID: S-2 3' (H601621-09)

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	07/21/2016	ND	2.14	107	2.00	0.449	
Toluene*	<0.050	0.050	07/21/2016	ND	2.18	109	2.00	0.792	
Ethylbenzene*	<0.050	0.050	07/21/2016	ND	2.10	105	2.00	0.403	
Total Xylenes*	<0.150	0.150	07/21/2016	ND	6.31	105	6.00	0.389	
Total BTEX	<0.300	0.300	07/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 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	4880	16.0	07/21/2016	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	07/20/2016	ND	185	92.6	200	3.78	
DRO >C10-C28	61.4	10.0	07/20/2016	ND	186	92.9	200	9.84	

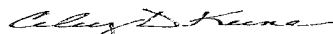
Surrogate: 1-Chlorooctane 85.1 % 35-147

Surrogate: 1-Chlorooctadecane 88.7 % 28-171

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Analytical Results For:

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

 Received: 07/20/2016
 Reported: 07/25/2016
 Project Name: T.P.'A' STATE BATTERY
 Project Number: 701048.011.01
 Project Location: NORTH CHAVEZ COUNTY (TATUM)

 Sampling Date: 07/19/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Angela Cabrera

Sample ID: S-2 4' (H601621-10)

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	07/21/2016	ND	2.14	107	2.00	0.449	
Toluene*	<0.050	0.050	07/21/2016	ND	2.18	109	2.00	0.792	
Ethylbenzene*	<0.050	0.050	07/21/2016	ND	2.10	105	2.00	0.403	
Total Xylenes*	<0.150	0.150	07/21/2016	ND	6.31	105	6.00	0.389	
Total BTEX	<0.300	0.300	07/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 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	4000	16.0	07/21/2016	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	07/20/2016	ND	185	92.6	200	3.78	
DRO >C10-C28	<10.0	10.0	07/20/2016	ND	186	92.9	200	9.84	

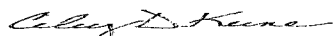
Surrogate: 1-Chlorooctane 89.2 % 35-147

Surrogate: 1-Chlorooctadecane 87.8 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/20/2016
Reported: 07/25/2016
Project Name: T.P.'A' STATE BATTERY
Project Number: 701048.011.01
Project Location: NORTH CHAVEZ COUNTY (TATUM)

Sampling Date: 07/19/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Angela Cabrera

Sample ID: S-3 0' (H601621-11)

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	07/21/2016	ND	2.14	107	2.00	0.449	
Toluene*	<0.050	0.050	07/21/2016	ND	2.18	109	2.00	0.792	
Ethylbenzene*	<0.050	0.050	07/21/2016	ND	2.10	105	2.00	0.403	
Total Xylenes*	0.317	0.150	07/21/2016	ND	6.31	105	6.00	0.389	
Total BTEX	0.317	0.300	07/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 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	64.0	16.0	07/21/2016	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	07/20/2016	ND	185	92.6	200	3.78	
DRO >C10-C28	863	50.0	07/20/2016	ND	186	92.9	200	9.84	

Surrogate: 1-Chlorooctane 84.3 % 35-147

Surrogate: 1-Chlorooctadecane 104 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/20/2016	Sampling Date:	07/19/2016
Reported:	07/25/2016	Sampling Type:	Soil
Project Name:	T.P.'A' STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701048.011.01	Sample Received By:	Angela Cabrera
Project Location:	NORTH CHAVEZ COUNTY (TATUM)		

Sample ID: S-3 1' (H601621-12)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2016	ND	2.14	107	2.00	0.449	
Toluene*	<0.050	0.050	07/21/2016	ND	2.18	109	2.00	0.792	
Ethylbenzene*	<0.050	0.050	07/21/2016	ND	2.10	105	2.00	0.403	
Total Xylenes*	<0.150	0.150	07/21/2016	ND	6.31	105	6.00	0.389	
Total BTX	<0.300	0.300	07/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 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	32.0	16.0	07/21/2016	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	07/20/2016	ND	185	92.6	200	3.78	
DRO >C10-C28	196	50.0	07/20/2016	ND	186	92.9	200	9.84	


Surrogate: 1-Chlorooctane 94.1 % 35-147

Surrogate: 1-Chlorooctadecane 107 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/20/2016	Sampling Date:	07/19/2016
Reported:	07/25/2016	Sampling Type:	Soil
Project Name:	T.P.'A' STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701048.011.01	Sample Received By:	Angela Cabrera
Project Location:	NORTH CHAVEZ COUNTY (TATUM)		

Sample ID: S-3 2' (H601621-13)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2016	ND	2.14	107	2.00	0.449	
Toluene*	<0.050	0.050	07/21/2016	ND	2.18	109	2.00	0.792	
Ethylbenzene*	<0.050	0.050	07/21/2016	ND	2.10	105	2.00	0.403	
Total Xylenes*	<0.150	0.150	07/21/2016	ND	6.31	105	6.00	0.389	
Total BTX	<0.300	0.300	07/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 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	48.0	16.0	07/21/2016	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	07/20/2016	ND	185	92.6	200	3.78	
DRO >C10-C28	<10.0	10.0	07/20/2016	ND	186	92.9	200	9.84	

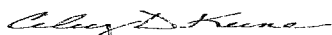
Surrogate: 1-Chlorooctane 86.7 % 35-147

Surrogate: 1-Chlorooctadecane 96.9 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/20/2016	Sampling Date:	07/19/2016
Reported:	07/25/2016	Sampling Type:	Soil
Project Name:	T.P.'A' STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701048.011.01	Sample Received By:	Angela Cabrera
Project Location:	NORTH CHAVEZ COUNTY (TATUM)		

Sample ID: S-3 3' (H601621-14)

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	07/21/2016	ND	2.14	107	2.00	0.449	
Toluene*	<0.050	0.050	07/21/2016	ND	2.18	109	2.00	0.792	
Ethylbenzene*	<0.050	0.050	07/21/2016	ND	2.10	105	2.00	0.403	
Total Xylenes*	<0.150	0.150	07/21/2016	ND	6.31	105	6.00	0.389	
Total BTEX	<0.300	0.300	07/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 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	48.0	16.0	07/21/2016	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	07/20/2016	ND	185	92.6	200	3.78	
DRO >C10-C28	16.0	10.0	07/20/2016	ND	186	92.9	200	9.84	

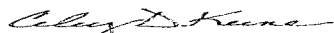
Surrogate: 1-Chlorooctane 88.4 % 35-147

Surrogate: 1-Chlorooctadecane 100 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/20/2016	Sampling Date:	07/19/2016
Reported:	07/25/2016	Sampling Type:	Soil
Project Name:	T.P.'A' STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701048.011.01	Sample Received By:	Angela Cabrera
Project Location:	NORTH CHAVEZ COUNTY (TATUM)		

Sample ID: BG 1' (H601621-15)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2016	ND	2.14	107	2.00	0.449	
Toluene*	<0.050	0.050	07/21/2016	ND	2.18	109	2.00	0.792	
Ethylbenzene*	<0.050	0.050	07/21/2016	ND	2.10	105	2.00	0.403	
Total Xylenes*	<0.150	0.150	07/21/2016	ND	6.31	105	6.00	0.389	
Total BTX	<0.300	0.300	07/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 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	<16.0	16.0	07/21/2016	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	07/20/2016	ND	185	92.6	200	3.78	
DRO >C10-C28	<10.0	10.0	07/20/2016	ND	186	92.9	200	9.84	

Surrogate: 1-Chlorooctane 93.0 % 35-147

Surrogate: 1-Chlorooctadecane 100 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

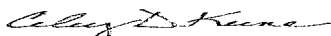
Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

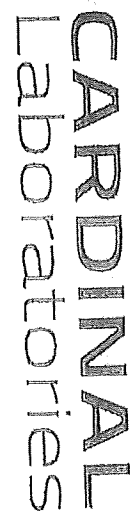
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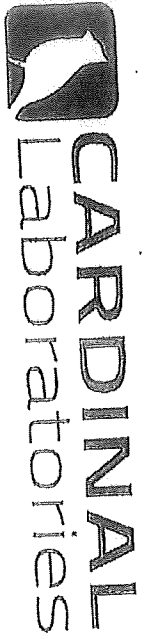


Celey D. Keene, Lab Director/Quality Manager



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

Page 18 of 19



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ANALYSIS REQUEST

Company Name: Talon/LPE		P.O. #: 701048.011.01					
Project Manager: David Atkins		Company: Talon/LPE					
Address: 408 W. Texas Ave.		Attn: David Atkins					
City: Artesia		Address:					
State: NM Zip: 88210		City:					
Phone #: 575-746-8768		State:					
Fax #: 575-746-8905		Zip:					
Project #: 701048.011.01		Project Owner: Aspen Consulting					
Project Name: T.P. A. State Battery		Phone #:					
Project Location: North Street, County (Tarrant)		Fax #:					
Sample Name: Robie DeKosier		PRESERV					
FOR LAB USE ONLY		SAMPLING					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	DATE	TIME	ANALYSIS
		GROUNDWATER		SOIL			
		WASTEWATER		OIL			
		SLUDGE		OTHER:			
		ACID/BASE:		ICE/COOL			
		OTHER:					
11	5-301		✓	✓	7-19-16	11:22	TPH
12	1'		✓	✓	11:25	✓	BTEX
13	2'		✓	✓	11:31	✓	Chlorides
14	3'		✓	✓	11:33	✓	
15	36 1'		✓	✓	11:36	✓	
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Relinquished By: [Signature]		Received By: [Signature]		Sample Condition			
Date: 7/20/16		Time: 11:30		Checked By: [Signature]			
Relinquished By: [Signature]		Received By: [Signature]		Sample Condition			
Date: 7/20/16		Time: 11:30		Checked By: [Signature]			
Delivered By: (Circle One)		Sample - UPS - Bus - Other:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No			
2.70		2.70		Add'l Phone #:			
				Add'l Fax #:			

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

#75

Analytical Report 535942

for
Talon LPE

Project Manager: David Adkins

Aspen TP State AC #1

701048.011.07

01-SEP-16

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)
Xenco-San Antonio: Texas (T104704534)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



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01-SEP-16

Project Manager: **David Adkins**

Talon LPE

408 W. Texas St.

Artesia, NM 88210

Reference: XENCO Report No(s): **535942**

Aspen TP State AC #1

Project Address: Lea County, New Mexico

David Adkins:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 535942. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 535942 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

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Sample Cross Reference 535942



Talon LPE, Artesia, NM

Aspen TP State AC #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-1	S	08-25-16 00:00	- 5 ft	535942-001
S-2	S	08-25-16 00:00	- 5 ft	535942-002
S-2	S	08-25-16 00:00	- 7 ft	535942-003
S-4	S	08-25-16 00:00	- 0 ft	535942-004
S-4	S	08-25-16 00:00	- 3 ft	535942-005
S-4	S	08-25-16 00:00	- 5 ft	535942-006



CASE NARRATIVE



Client Name: Talon LPE

Project Name: Aspen TP State AC #1

Project ID: 701048.011.07
Work Order Number(s): 535942

Report Date: 01-SEP-16
Date Received: 08/30/2016

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 535942

Talon LPE, Artesia, NM

Project Name: Aspen TP State AC #1

Project Id: 701048.011.07

Contact: David Adkins

Project Location: Lea County, New Mexico



Date Received in Lab: Tue Aug-30-16 02:26 pm

Report Date: 01-SEP-16

Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	535942-001	S-1 5 ft SOIL Aug-25-16 00:00	535942-002	S-2 5 ft SOIL Aug-25-16 00:00	535942-003	S-2 7 ft SOIL Aug-25-16 00:00	535942-004	S-4 0 ft SOIL Aug-25-16 00:00	535942-005	S-4 3 ft SOIL Aug-25-16 00:00	535942-006	S-4 5 ft SOIL Aug-25-16 00:00
	<i>Field Id:</i>												
	<i>Depth:</i>												
	<i>Matrix:</i>												
	<i>Sampled:</i>												
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>		Aug-31-16 10:00	Aug-31-16 10:00	Aug-31-16 10:00	Aug-31-16 10:00	Aug-31-16 10:00	Aug-31-16 10:00	Aug-31-16 10:00	Aug-31-16 10:00	Aug-31-16 10:00	Aug-31-16 10:00	Aug-31-16 10:00
	<i>Analyzed:</i>		Aug-31-16 14:55	Aug-31-16 15:03	Aug-31-16 15:11	Aug-31-16 15:19	Aug-31-16 15:57	Aug-31-16 16:05	Aug-31-16 16:05	Aug-31-16 16:05	Aug-31-16 16:05	Aug-31-16 16:05	Aug-31-16 16:05
	<i>Units/RL:</i>		mg/kg RL 294 10.0	mg/kg RL 73.2 10.0	mg/kg RL 880 10.0	mg/kg RL 28.9 10.0	mg/kg RL 13.5 10.0	mg/kg RL 13.0 10.0	mg/kg RL 13.0 10.0	mg/kg RL 13.0 10.0	mg/kg RL 13.0 10.0	mg/kg RL 13.0 10.0	mg/kg RL 13.0 10.0
Chloride													

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Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kelsey Brooks

Kelsey Brooks
Project Manager



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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1211 W Florida Ave, Midland, TX 79701
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(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(432) 563-1800	(432) 563-1713
(602) 437-0330	



BS / BSD Recoveries

Project Name: Aspen TP State AC #1

Work Order #: 535942

Analyst: MNR

Lab Batch ID: 1000983

Units: mg/kg

Date Prepared: 08/31/2016

Batch #: 1

Project ID: 701048.011.07

Date Analyzed: 08/31/2016

Matrix: Solid



BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	<10.0	250	252	101	250	249	100	1	90-110	20	
Chloride											

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

Project Name: Aspen TP State AC #1

Work Order #: 535942

Project ID: 701048.011.07

Lab Batch ID: 1000983

QC-Sample ID: 534921-009 S

Batch #: 1 Matrix: Soil

Date Analyzed: 08/31/2016

Date Prepared: 08/31/2016

Analyst: MNR

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1		Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
Chloride		54.7	250	292	95	250	295	96	1	90-110	20	

Lab Batch ID: 1000983

QC-Sample ID: 535942-004 S

Batch #: 1 Matrix: Soil

Date Analyzed: 08/31/2016

Date Prepared: 08/31/2016

Analyst: MNR

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1		Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
Chloride		28.9	250	266	95	250	268	96	1	90-110	20	

Matrix Spike Percent Recovery $[D] = 100 * (C-A) / B$
Relative Percent Difference $RPD = 200 * |(C-F) / (C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 * (F-A) / E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

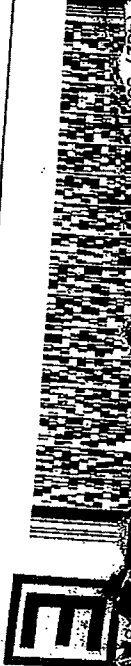


ORIGIN ID: H0PC (578) 327-7890
MAIL SERVICES ETC, L.C
4008 N CRIMES
HO99S, NM 98240
UNITED STATES US

ACTIVITY: 30PUG16
CND: 0909328/CPFC2915
DIMS: 14X11X9 IN
BILL RECIPIENT

XENCO LABORATORIES
XENCO LABORATORIES
1211 W FLORIDA AVE

MIDLAND TX 79701



TRK# 1 of 2
6606 3912 3929
NM MASTER #

WED - 31 AUG 10:30A
PRIORITY OVERNIGHT

41 MAFA

79701
TX-US LBB



XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In



Client: Talon LPE

Date/ Time Received: 08/30/2016 02:26:00 PM

Work Order #: 535942

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	28
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes Ice had melted
#4 *Custody Seal present on shipping container/ cooler?	No
#5 *Custody Seals intact on shipping container/ cooler?	No
#6 Custody Seals intact on sample bottles?	No
#7 *Custody Seals Signed and dated?	No
#8 *Chain of Custody present?	Yes
#9 Sample instructions complete on Chain of Custody?	Yes
#10 Any missing/extra samples?	No
#11 Chain of Custody signed when relinquished/ received?	Yes
#12 Chain of Custody agrees with sample label(s)?	Yes
#13 Container label(s) legible and intact?	Yes
#14 Sample matrix/ properties agree with Chain of Custody?	Yes
#15 Samples in proper container/ bottle?	Yes
#16 Samples properly preserved?	Yes
#17 Sample container(s) intact?	Yes
#18 Sufficient sample amount for indicated test(s)?	Yes
#19 All samples received within hold time?	Yes
#20 Subcontract of sample(s)?	No
#21 VOC samples have zero headspace (less than 1/4 inch bubble)?	N/A
#22 <2 for all samples preserved with HNO ₃ ,HCL, H ₂ SO ₄ ? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	N/A
#23 >10 for all samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH?	N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Carley Owens
Carley Owens

Date: 08/31/2016

Checklist reviewed by:

Kelsey Brooks
Kelsey Brooks

Date: 08/31/2016