



November 19, 2012



Mr. Mike Bratcher
NMOCD District 2
1301 West Grand Avenue
Artesia, NM 88210

Subject: **Remediation and Closure Report**
Judah Oil, LLC
Cedar Lake SWD Unloading Station

Dear Mr. Bratcher,

Judah Oil had contracted Talon/LPE (Talon) to perform soil assessment and remediation activities at the referenced Cedar Lake SWD Unloading Station. The results of our soil assessment, completed remediation activities and closure request are submitted herein.

Background Information

The Cedar Lake SWD Unloading Station is located approximately thirty (30) miles east of Artesia, New Mexico. The legal location for the site is Section 29, Township 17 South and Range 31 East in Eddy County, New Mexico. More Specifically the latitude and longitude for the location are 32.81053 North and -103.88457 West.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Kermit-Berino complex with 0 to 3 percent slopes, eroded. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to Pleistocene in age and is comprised of eolian sands and piedmont deposits which include silty soils underlain with hard caliche. Drainage courses in this area are normally dry. Ground water in the project vicinity is approximately 325-feet below land surface according to the Texaco/Chevron Eddy County Water Trend Data Map (2005).

The ranking for this site is 0 based on the as following:

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

Incident Description

On August 19, 2012 the Cedar Lake SWD Unloading Station was struck by lightning. All tanks were burnt causing a release of 11,910 barrels of produced water and 942 barrels of oil. All fluids released were within the below grade containment at the Cedar Lake SWD Unloading Station which was lined. A vacuum truck was called to recover the standing fluid.

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Toll Free: 866.742.0742
www.talonlpe.com

Remedial Actions Taken

On October 16, 2012 Talon personnel mobilized to the site to begin excavation of the impacted area in accordance with the approved work plan. The impacted soil within the area of the release was excavated from a depth of 2-foot to 4-feet deep and transported to a NMOCD approved solid waste disposal facility, CRI, pursuant to the work plan.

On October 25, 2012 Talon personnel mobilized to the site to begin closure soil sampling activities on the bottom and sidewalls of the excavation per the BLM and NMOCD requirements. Grab soil samples were collected and tested for chlorides on site, utilizing the field titration method.

All soil samples were collected by Talon personnel wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for volatile organics (BTEX) per EPA Method 8021B, Total Petroleum Hydrocarbons (TPH) per EPA Method 8015M, and total chlorides via Method SM 4500Cl-B. The complete laboratory report is attached as Appendix II.

Analytical Results

Analytical results received from Cardinal Laboratories are summarized below:

September 21, 2012

<u>Sample</u>	<u>Depth</u>	<u>BTEX</u>	<u>Chlorides</u>	<u>TPH (mg/kg)</u>
BH-1	0'	<0.150	4800	132
	2'	<0.150	3200	<10
	4'	<0.150	8500	<10
	6'	<0.150	288	<10
	8'	--	64	--
	10'	--	64	--
	15'	--	96	--
	20'	--	288	--
	25'	--	112	--
	30'	--	96	--
BH-2	0'	4.571	1170	2238
	2'	0.058	16	<10
	4'	<0.150	32	<10
	6'	<0.150	16	<10
	8'	--	32	--
	10'	--	48	--
	15'	--	48	--
	20'	--	128	--
	25'	--	48	--
	30'	--	64	--

--Analyte Not Tested

October 5, 2012

<u>Sample</u>	<u>Depth</u>	<u>BTEX</u>	<u>Chlorides</u>	<u>TPH (mg/kg)</u>
S-3	0'	<0.150	3480	54.7
	2'	<0.150	32	<10
	4'	--	96	--
	6'	--	128	--
	8'	--	416	--
	10'	--	32	--
S-4	0'	3.922	2960	3090
	2'	<0.150	16	<10
	4'	--	<16	--
	6'	--	32	--
	8'	--	<16	--
	10'	--	48	--
S-5	0'	0.102	1170	451
	2'	<0.150	<16	<10
	4'	--	<16	--
	6'	--	<16	--
	8'	--	<16	--
	10'	--	<16	--
S-6	0'	<0.150	80	0
S-7	0'	<0.150	<16	<10
S-8	0'	<0.150	<16	<10
S-9	0'	<0.150	4240	<10
S-10	0'	<0.150	16	<10

--Analyte Not Tested

October 25, 2012

The post excavation field titration results for total chlorides are as follows. The samples were collected from the bottom of the excavated area.

<u>Sample</u>	<u>Chlorides (mg/kg)</u>
1	567
2	284
3	141
4	354
5	141
6	1063
7	141

For this site's ranking, New Mexico Oil Conservation District action level criterion for BTEX is 50 mg/kg, Benzene is 10 mg/kg and TPH is 5,000 mg/kg. The chloride remediation standard is considered to be 1,000 mg/kg.

Summary and Conclusions

- The impacted areas were excavated to a depth of 2-feet to 4-feet deep. The excavated soils were transported to a NMOCD approved solid waste disposal facility.
- On October 24, 2012 Mike Bratcher with NMOCD granted approval to backfill after field testing was completed. On October 25, 2012 Jim Amos with the BLM also agreed to closure based upon field testing results.
- On October 29, 2012 the excavated area was backfilled using new material transported from a local borrow pit. The below grade containment was reconstructed using new material.
- The below grade containment will be relined, new tanks and infrastructure will be installed and the facility brought back into service by Judah Oil.
- Based on the depth to groundwater and the remedial actions implemented, it is unlikely that the impacts identified from this release will pose a threat to groundwater.

Closure

On behalf of Judah Oil, we respectfully request that no further actions be required and that closure with respect to this release be granted.

If we can provide additional information or be of further assistance please contact our office at 575.746.8768.

Respectfully submitted,

TALON/LPE

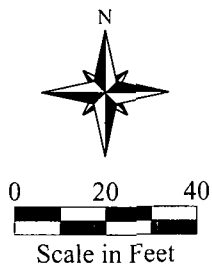
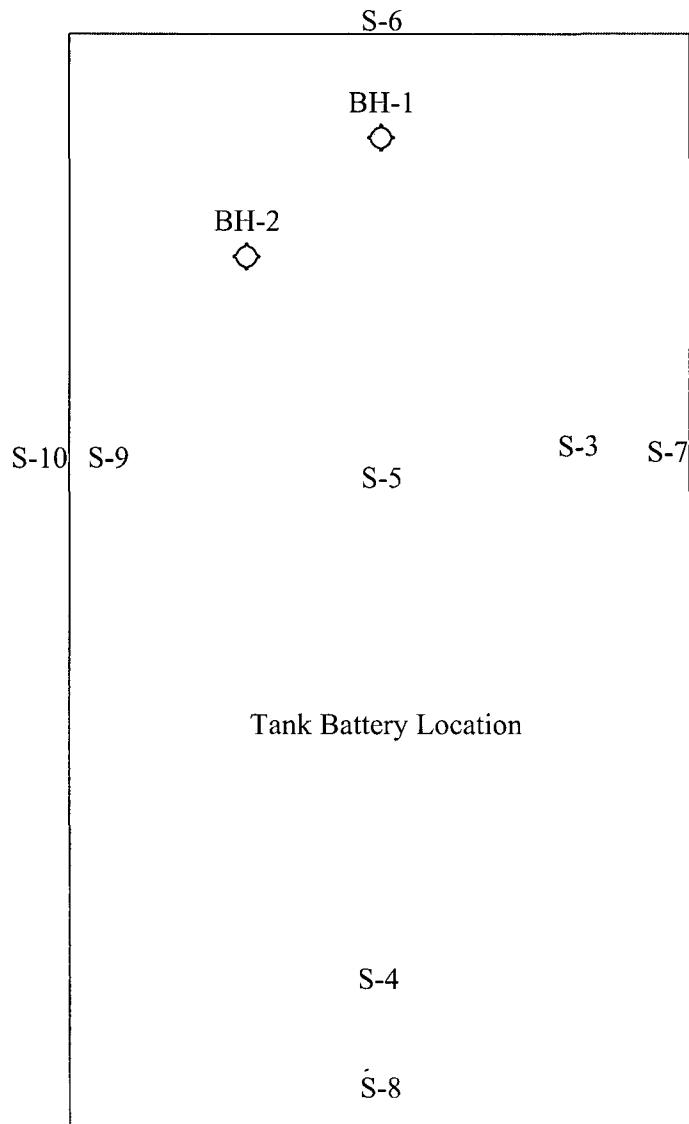


Mike Stubblefield
Project Manager



David J. Adkins
District Manager

SITE MAP



Legend	
◇	- Borehole Location
-	- Soil Sample Location



Date: 11/15/2012
Scale: 1" = 40'
Drawn By: TJS

Cedar Lake SWD Unloading Station
Judah Oil, LLC
Eddy County, New Mexico
Figure 1 - Site Plan

APPENDIX I
LABORATORY RESULTS



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

September 21, 2012

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: CEDAR LAKE SWD UNLOADING STATION

Enclosed are the results of analyses for samples received by the laboratory on 09/14/12 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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
 MIKE STUBBLEFIELD
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	09/14/2012	Sampling Date:	09/13/2012
Reported:	09/21/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: BH - 1 0' (H202233-01)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2012	ND	2.25	113	2.00	9.99	
Toluene*	<0.050	0.050	09/20/2012	ND	2.46	123	2.00	10.6	
Ethylbenzene*	<0.050	0.050	09/20/2012	ND	2.44	122	2.00	11.2	
Total Xylenes*	<0.150	0.150	09/20/2012	ND	7.41	124	6.00	10.8	

Surrogate: 4-Bromofluorobenzene (PIE) 99.7 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	09/19/2012	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	09/19/2012	ND	177	88.4	200	8.27	
DRO >C10-C28	132	10.0	09/19/2012	ND	172	86.1	200	12.5	

Surrogate: 1-Chlorooctane 80.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 79.2 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Reported:	09/21/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: BH - 1 2' (H202233-02)

BTX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2012	ND	2.25	113	2.00	9.99		
Toluene*	<0.050	0.050	09/20/2012	ND	2.46	123	2.00	10.6		
Ethylbenzene*	<0.050	0.050	09/20/2012	ND	2.44	122	2.00	11.2		
Total Xylenes*	<0.150	0.150	09/20/2012	ND	7.41	124	6.00	10.8		

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3200	16.0	09/19/2012	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	09/19/2012	ND	177	88.4	200	8.27		
DRO >C10-C28	<10.0	10.0	09/19/2012	ND	172	86.1	200	12.5		

Surrogate: 1-Chlorooctane 79.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 80.9 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Received:	09/14/2012	Sampling Date:	09/13/2012
Reported:	09/21/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: BH - 1 4' (H202233-03)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2012	ND	2.25	113	2.00	9.99	
Toluene*	<0.050	0.050	09/20/2012	ND	2.46	123	2.00	10.6	
Ethylbenzene*	<0.050	0.050	09/20/2012	ND	2.44	122	2.00	11.2	
Total Xylenes*	<0.150	0.150	09/20/2012	ND	7.41	124	6.00	10.8	

Surrogate: 4-Bromofluorobenzene (PIL) 99.4 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8500	16.0	09/19/2012	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	09/19/2012	ND	177	88.4	200	8.27	
DRO >C10-C28	<10.0	10.0	09/19/2012	ND	172	86.1	200	12.5	

Surrogate: 1-Chlorooctane 81.6 % 65.2-140*Surrogate: 1-Chlorooctadecane* 82.2 % 63.6-154

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* = Accredited Analyte

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Received:	09/14/2012	Sampling Date:	09/13/2012
Reported:	09/21/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: BH - 1 6' (H202233-04)

BTEX 8021B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2012	ND	1.84	92.0	2.00	13.8	
Toluene*	<0.050	0.050	09/21/2012	ND	2.07	103	2.00	11.4	
Ethylbenzene*	<0.050	0.050	09/21/2012	ND	2.04	102	2.00	11.1	
Total Xylenes*	<0.150	0.150	09/21/2012	ND	6.32	105	6.00	9.78	

Surrogate: 4-Bromofluorobenzene (PIL) 99.6 % 89.4-126

Chloride, SM4500CI-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/19/2012	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	09/19/2012	ND	177	88.4	200	8.27	
DRO >C10-C28	<10.0	10.0	09/19/2012	ND	172	86.1	200	12.5	

Surrogate: 1-Chlorooctane 70.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 66.1 % 63.6-154


Sample ID: BH - 1 8' (H202233-05)

Chloride, SM4500CI-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/19/2012	ND	416	104	400	0.00	

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Reported:	09/21/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: BH - 1 10' (H202233-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/19/2012	ND	416	104	400	0.00	

Sample ID: BH - 1 15' (H202233-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/19/2012	ND	416	104	400	0.00	

Sample ID: BH - 1 20' (H202233-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/19/2012	ND	416	104	400	0.00	

Sample ID: BH - 1 25' (H202233-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/19/2012	ND	416	104	400	0.00	

Sample ID: BH - 1 30' (H202233-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/19/2012	ND	416	104	400	0.00	

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*=Accredited Analyte

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Reported:	09/21/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: BH - 2 0' (H202233-11)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/21/2012	ND	1.84	92.0	2.00	13.8	
Toluene*	0.721	0.200	09/21/2012	ND	2.07	103	2.00	11.4	
Ethylbenzene*	1.01	0.200	09/21/2012	ND	2.04	102	2.00	11.1	
Total Xylenes*	2.84	0.600	09/21/2012	ND	6.32	105	6.00	9.78	

Surrogate: 4-Bromofluorobenzene (PID) 109 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	09/19/2012	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	148	50.0	09/19/2012	ND	177	88.4	200	8.27	
DRO >C10-C28	2090	50.0	09/19/2012	ND	172	86.1	200	12.5	

Surrogate: 1-Chlorooctane 87.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Fax To: (575) 745-8905

Received:	09/14/2012	Sampling Date:	09/13/2012
Reported:	09/21/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: BH - 2 2' (H202233-12)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.058	0.050	09/20/2012	ND	1.84	92.0	2.00	13.8	
Toluene*	<0.050	0.050	09/20/2012	ND	2.07	103	2.00	11.4	
Ethylbenzene*	<0.050	0.050	09/20/2012	ND	2.04	102	2.00	11.1	
Total Xylenes*	<0.150	0.150	09/20/2012	ND	6.32	105	6.00	9.78	

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/19/2012	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	09/19/2012	ND	177	88.4	200	8.27	
DRO >C10-C28	<10.0	10.0	09/19/2012	ND	172	86.1	200	12.5	

Surrogate: 1-Chlorooctane 76.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 74.8 % 63.6-154

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

Received:	09/14/2012	Sampling Date:	09/13/2012
Reported:	09/21/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: BH - 2 4' (H202233-13)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2012	ND	1.84	92.0	2.00	13.8	
Toluene*	<0.050	0.050	09/20/2012	ND	2.07	103	2.00	11.4	
Ethylbenzene*	<0.050	0.050	09/20/2012	ND	2.04	102	2.00	11.1	
Total Xylenes*	<0.150	0.150	09/20/2012	ND	6.32	105	6.00	9.78	

Surrogate: 4-Bromofluorobenzene (PIL) 99.4 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/19/2012	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	09/19/2012	ND	177	88.4	200	8.27	
DRO >C10-C28	<10.0	10.0	09/19/2012	ND	172	86.1	200	12.5	

Surrogate: 1-Chlorooctane 80.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 78.1 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/14/2012	Sampling Date:	09/13/2012
Reported:	09/21/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: BH - 2 6' (H202233-14)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2012	ND	1.84	92.0	2.00	13.8	
Toluene*	<0.050	0.050	09/20/2012	ND	2.07	103	2.00	11.4	
Ethylbenzene*	<0.050	0.050	09/20/2012	ND	2.04	102	2.00	11.1	
Total Xylenes*	<0.150	0.150	09/20/2012	ND	6.32	105	6.00	9.78	

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/19/2012	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	09/19/2012	ND	177	88.4	200	8.27	
DRO >C10-C28	<10.0	10.0	09/19/2012	ND	172	86.1	200	12.5	

Surrogate: 1-Chlorooctane 81.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.3 % 63.6-154

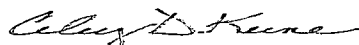
Sample ID: BH - 2 8' (H202233-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/19/2012	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/14/2012	Sampling Date:	09/13/2012
Reported:	09/21/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: BH - 2 10' (H202233-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/19/2012	ND	400	100	400	3.92	

Sample ID: BH - 2 15' (H202233-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/19/2012	ND	400	100	400	3.92	

Sample ID: BH - 2 20' (H202233-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/19/2012	ND	400	100	400	3.92	

Sample ID: BH - 2 25' (H202233-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/19/2012	ND	400	100	400	3.92	

Sample ID: BH - 2 30' (H202233-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/19/2012	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

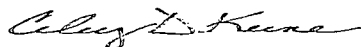
Notes and Definitions

QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Talon/LPE</u>				BILL TO				ANALYSIS REQUEST																													
Project Manager: <u>Mike Stubblefield</u>				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div>8015m TPH</div> <div>80213 BTCL</div> <div>Total chlorides</div> </div>																													
Address: <u>408 West Texas Ave.</u>				Company: <u>Talon/LPE</u>																																	
City: <u>Artesia</u> State: <u>NM</u> Zip: <u>88210</u>				Attn:																																	
Phone #: <u>505-441-7254</u> Fax #:				Address:																																	
Project #: <u>201484.003.01</u> Project Owner: <u>Judah O/L LLC</u>				City:																																	
Project Name: <u>Cedar Lake SWD unloading station</u>				State: Zip:																																	
Project Location: <u>Sec. 29-T12S-R31E</u>				Phone #:																																	
Sampler Name: <u>Mike Stubblefield</u>				Fax #:																																	
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		GRAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER		ACID/BASE		ICE / COOL		OTHER		DATE		TIME		8015m TPH		80213 BTCL		Total chlorides	
		H202733																																			
		1 BH-10				5																															
		2 BH-12'				5																															
		3 BH-14'				5																															
		4 BH-16'				5																															
		5 BH-18'				5																															
		6 BH-110'				5																															
		7 BH-115'				5																															
		8 BH-120'				5																															
		9 BH-125'				5																															
		10 BH-130'				5																															

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Relinquished By:		Date:	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:
<u>Mike Stubblefield</u>		7-14-12	<u>Shannon Reed</u>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:
Time:				REMARKS:		
Relinquished By:		Date:	Received By:			
Time:						
Delivered By: (Circle One)				Sample Condition		
Sampler - UPS - Bus - <u>Other</u>				Cool / Intact		
				<input type="checkbox"/> Yes <input type="checkbox"/> No		
				<input type="checkbox"/> Yes <input type="checkbox"/> No		
				CHECKED BY:		
				(Initials)		

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Talon/LPE</u>		BILL TO		ANALYSIS REQUEST																
Project Manager: <u>Mike Stubblefield</u>		P.O. #:																		
Address: <u>408 Wrt Teller Ave.</u>		Company: <u>Talon/LPE</u>																		
City: <u>Artesia</u> State: <u>NM</u> Zip: <u>88210</u>		Attn:																		
Phone #: <u>575-441-7254</u> Fax #:		Address:																		
Project #: <u>201484.003.01</u> Project Owner: <u>Jade Oil, LLC</u>		City:																		
Project Name: <u>Cedar Lake SWD unloading station</u>		State: Zip:																		
Project Location: <u>ecc. 29-775-R31E</u>		Phone #:																		
Sampler Name: <u>Mike Stubblefield</u>		Fax #:																		
FOR LAB USE ONLY				MATRIX		PRESERV		SAMPLING												
Lab I.D.	Sample I.D.	(GRAB OR C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	8015 M TPH	8021 O BTEX	Total chlorides				
11	BH-2 0'	G										9/13/12	4:05P							
12	BH-2 2'	G										9/13/12	4:07P							
13	BH-2 4'	G										9/13/12	4:10P							
14	BH-2 6'	G										9/13/12	4:15P							
15	BH-2 8'	G										9/13/12	4:20P							
16	BH-2 10'	G										9/13/12	4:25P							
17	BH-2 15'	G										9/13/12	4:35P							
18	BH-2 20'	G										9/13/12	4:45P							
19	BH-2 25'	G										9/13/12	4:50P							
20	BH-2 30'	G										9/13/12	5:00P							

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Relinquished By:	Date: <u>9-14-12</u>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<u>Mike Stubblefield</u>	Time: <u>2:50</u>	<u>Shannon Reed</u>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - <u>Other</u>	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>SH</u>		

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



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

October 05, 2012

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: CEDAR LAKE SWD UNLOADING STATION

Enclosed are the results of analyses for samples received by the laboratory on 09/28/12 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/28/2012	Sampling Date:	09/27/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: S - 3 0' (H202374-01)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2012	ND	1.82	91.1	2.00	9.90	
Toluene*	<0.050	0.050	10/03/2012	ND	2.00	100	2.00	9.69	
Ethylbenzene*	<0.050	0.050	10/03/2012	ND	1.97	98.5	2.00	9.92	
Total Xylenes*	<0.150	0.150	10/03/2012	ND	6.06	101	6.00	9.48	

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	10/02/2012	ND	416	104	400	3.92	

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	10/01/2012	ND	202	101	200	0.481	
DRO >C10-C28	54.7	10.0	10/01/2012	ND	204	102	200	0.127	

Surrogate: 1-Chlorooctane 95.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.5 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/28/2012	Sampling Date:	09/27/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: S - 3 2' BGS (H202374-02)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2012	ND	1.82	91.1	2.00	9.90	
Toluene*	<0.050	0.050	10/03/2012	ND	2.00	100	2.00	9.69	
Ethylbenzene*	<0.050	0.050	10/03/2012	ND	1.97	98.5	2.00	9.92	
Total Xylenes*	<0.150	0.150	10/03/2012	ND	6.06	101	6.00	9.48	

Surrogate: 4-Bromofluorobenzene (PIB) 103 % 89.4-126

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	10/02/2012	ND	416	104	400	3.92	

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	10/01/2012	ND	202	101	200	0.481	
DRO >C10-C28	<10.0	10.0	10/01/2012	ND	204	102	200	0.127	

Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

Sample ID: S - 3 4' BGS (H202374-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/02/2012	ND	416	104	400	3.92	

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Analytical Results For:

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

Received:	09/28/2012	Sampling Date:	09/27/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: S - 3 6' BGS (H202374-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/02/2012	ND	416	104	400	3.92	

Sample ID: S - 3 8' BGS (H202374-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	10/02/2012	ND	416	104	400	3.92	

Sample ID: S - 3 10' BGS (H202374-06)

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	10/02/2012	ND	416	104	400	3.92	

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Analytical Results For:

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

Received:	09/28/2012	Sampling Date:	09/27/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: S - 4 0' (H202374-07)

BTX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.613	0.050	10/03/2012	ND	1.82	91.1	2.00	9.90	
Toluene*	1.01	0.050	10/03/2012	ND	2.00	100	2.00	9.69	
Ethylbenzene*	0.399	0.050	10/03/2012	ND	1.97	98.5	2.00	9.92	
Total Xylenes*	1.90	0.150	10/03/2012	ND	6.06	101	6.00	9.48	

Surrogate: 4-Bromofluorobenzene (PID) 138 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	10/02/2012	ND	416	104	400	3.92	

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	<100	100	10/01/2012	ND	202	101	200	0.481	
DRO >C10-C28	3090	100	10/01/2012	ND	204	102	200	0.127	

Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 172 % 63.6-154

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

Received:	09/28/2012	Sampling Date:	09/27/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: S - 4 2' BGS (H202374-08)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2012	ND	1.82	91.1	2.00	9.90	
Toluene*	<0.050	0.050	10/03/2012	ND	2.00	100	2.00	9.69	
Ethylbenzene*	<0.050	0.050	10/03/2012	ND	1.97	98.5	2.00	9.92	
Total Xylenes*	<0.150	0.150	10/03/2012	ND	6.06	101	6.00	9.48	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

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	10/02/2012	ND	416	104	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						

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	10/01/2012	ND	202	101	200	0.481	
DRO >C10-C28	<10.0	10.0	10/01/2012	ND	204	102	200	0.127	

Surrogate: 1-Chlorooctane 96.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

Sample ID: S - 4 4' BGS (H202374-09)

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	10/03/2012	ND	400	100	400	4.08	

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Analytical Results For:

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

Received:	09/28/2012	Sampling Date:	09/27/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: S - 4 6' BGS (H202374-10)

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	10/03/2012	ND	400	100	400	4.08	

Sample ID: S - 4 8' BGS (H202374-11)

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	10/03/2012	ND	400	100	400	4.08	

Sample ID: S - 4 10' BGS (H202374-12)

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	10/03/2012	ND	400	100	400	4.08	

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Analytical Results For:

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Received:	09/28/2012	Sampling Date:	09/27/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: S - 5 0' (H202374-13)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2012	ND	1.82	91.1	2.00	9.90	
Toluene*	0.102	0.050	10/03/2012	ND	2.00	100	2.00	9.69	
Ethylbenzene*	<0.050	0.050	10/03/2012	ND	1.97	98.5	2.00	9.92	
Total Xylenes*	<0.150	0.150	10/03/2012	ND	6.06	101	6.00	9.48	

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	10/03/2012	ND	400	100	400	4.08	

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	10/01/2012	ND	202	101	200	0.481	
DRO >C10-C28	451	10.0	10/01/2012	ND	204	102	200	0.127	

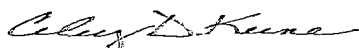
Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Analytical Results For:

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

Received:	09/28/2012	Sampling Date:	09/27/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: S - 5 2' BGS (H202374-14)

BTEx 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2012	ND	1.82	91.1	2.00	9.90	
Toluene*	<0.050	0.050	10/03/2012	ND	2.00	100	2.00	9.69	
Ethylbenzene*	<0.050	0.050	10/03/2012	ND	1.97	98.5	2.00	9.92	
Total Xylenes*	<0.150	0.150	10/03/2012	ND	6.06	101	6.00	9.48	

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 89.4-126

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	10/03/2012	ND	400	100	400	4.08	

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	10/01/2012	ND	202	101	200	0.481	
DRO >C10-C28	<10.0	10.0	10/01/2012	ND	204	102	200	0.127	

Surrogate: 1-Chlorooctane 93.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.4 % 63.6-154

Sample ID: S - 5 4' BGS (H202374-15)

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	10/03/2012	ND	400	100	400	4.08	

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Analytical Results For:

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

Received:	09/28/2012	Sampling Date:	09/27/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: S - 5 6' BGS (H202374-16)

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	10/03/2012	ND	400	100	400	4.08	

Sample ID: S - 5 8' BGS (H202374-17)

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	10/03/2012	ND	400	100	400	4.08	

Sample ID: S - 5 10' BGS (H202374-18)

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	10/03/2012	ND	400	100	400	4.08	

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Analytical Results For:

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

Received:	09/28/2012	Sampling Date:	09/27/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: S - 6 (H202374-19)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2012	ND	1.82	91.1	2.00	9.90	
Toluene*	<0.050	0.050	10/03/2012	ND	2.00	100	2.00	9.69	
Ethylbenzene*	<0.050	0.050	10/03/2012	ND	1.97	98.5	2.00	9.92	
Total Xylenes*	<0.150	0.150	10/03/2012	ND	6.06	101	6.00	9.48	

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/03/2012	ND	400	100	400	4.08	

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	10/01/2012	ND	202	101	200	0.481	
DRO >C10-C28	<10.0	10.0	10/01/2012	ND	204	102	200	0.127	


Surrogate: 1-Chlorooctane 89.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.4 % 63.6-154

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Analytical Results For:

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

Received:	09/28/2012	Sampling Date:	09/27/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: S - 7 (H202374-20)

BTEX S021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2012	ND	1.82	91.1	2.00	9.90		
Toluene*	<0.050	0.050	10/03/2012	ND	2.00	100	2.00	9.69		
Ethylbenzene*	<0.050	0.050	10/03/2012	ND	1.97	98.5	2.00	9.92		
Total Xylenes*	<0.150	0.150	10/03/2012	ND	6.06	101	6.00	9.48		

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

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	10/03/2012	ND	400	100	400	4.08		

TPH S015M		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	10/01/2012	ND	202	101	200	0.481		
DRO >C10-C28	<10.0	10.0	10/01/2012	ND	204	102	200	0.127		

Surrogate: 1-Chlorooctane 95.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.9 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/28/2012	Sampling Date:	09/27/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: S - 8 (H202374-21)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2012	ND	1.82	91.1	2.00	9.90		
Toluene*	<0.050	0.050	10/03/2012	ND	2.00	100	2.00	9.69		
Ethylbenzene*	<0.050	0.050	10/03/2012	ND	1.97	98.5	2.00	9.92		
Total Xylenes*	<0.150	0.150	10/03/2012	ND	6.06	101	6.00	9.48		

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 89.4-126

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	10/03/2012	ND	400	100	400	4.08		

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	10/02/2012	ND	202	101	200	0.660		
DRO >C10-C28	<10.0	10.0	10/02/2012	ND	206	103	200	0.619		

Surrogate: 1-Chlorooctane 96.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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

Received:	09/28/2012	Sampling Date:	09/27/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: S - 9 (H202374-22)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2012	ND	1.82	91.1	2.00	9.90	
Toluene*	<0.050	0.050	10/03/2012	ND	2.00	100	2.00	9.69	
Ethylbenzene*	<0.050	0.050	10/03/2012	ND	1.97	98.5	2.00	9.92	
Total Xylenes*	<0.150	0.150	10/03/2012	ND	6.06	101	6.00	9.48	

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	10/03/2012	ND	400	100	400	4.08	

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	10/02/2012	ND	202	101	200	0.660	
DRO >C10-C28	<10.0	10.0	10/02/2012	ND	206	103	200	0.619	

Surrogate: 1-Chlorooctane 93.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.3 % 63.6-154

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Analytical Results For:

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

Received:	09/28/2012	Sampling Date:	09/27/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	CEDAR LAKE SWD UNLOADING STATION	Sampling Condition:	Cool & Intact
Project Number:	701484.003.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29 - T17S - R31E		

Sample ID: S - 10 (H202374-23)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2012	ND	1.82	91.1	2.00	9.90	
Toluene*	<0.050	0.050	10/03/2012	ND	2.00	100	2.00	9.69	
Ethylbenzene*	<0.050	0.050	10/03/2012	ND	1.97	98.5	2.00	9.92	
Total Xylenes*	<0.150	0.150	10/03/2012	ND	6.06	101	6.00	9.48	

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

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	10/03/2012	ND	400	100	400	4.08	

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	10/02/2012	ND	202	101	200	0.660	
DRO >C10-C28	<10.0	10.0	10/02/2012	ND	206	103	200	0.619	

Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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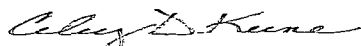
Notes and Definitions

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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

1-3

Company Name: <u>Talon/LPE</u> Project Manager: <u>Mike Stubblefield</u> Address: <u>408 West Texas Ave.</u> City: <u>Artesia</u> State: <u>NM</u> Zip: <u>88210</u> Phone #: <u>575-441-2254</u> Fax #: _____ Project #: <u>201484.003.01</u> Project Owner: <u>Judah O.I., LLC</u> Project Name: <u>Cedar Lake SWD unloading station</u> Project Location: <u>sec. 29-T12E-R31E</u> Sampler Name: <u>Mike Stubblefield</u>				BILL TO P.O. #: _____ Company: <u>Talon/LPE</u> Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____				ANALYSIS REQUEST														
FOR LAB USE ONLY Lab I.D. <u>HLD2374</u> Sample I.D.		GRAB OR C/OMP. # CONTAINERS	MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER	PRESERV. ACID/BASE ICE/COOL OTHER	SAMPLING DATE TIME	<u>8015M TPH</u> <u>8021B BTEX</u> <u>Total chlorides</u>																
1	5-3 0'	5	/	/	9/27/12 10:15A	/	/	/														
2	5-3 2' bgs	5	/	/	9/27/12 10:20A	/	/	/														
3	5-3 4' bgs	5	/	/	9/27/12 10:25A	/	/	/														
4	5-3 6' bgs	5	/	/	9/27/12 10:30A	/	/	/														
5	5-3 8' bgs	5	/	/	9/27/12 10:35A	/	/	/														
6	5-3 10' bgs	5	/	/	9/27/12 10:40A	/	/	/														
7	5-4 0'	5	/	/	9/27/12 11:10A	/	/	/														
8	5-4 2' bgs	5	/	/	9/27/12 11:15A	/	/	/														
9	5-4 4' bgs	5	/	/	9/27/12 11:20A	/	/	/														
10	5-4 6' bgs	5	/	/	9/27/12 11:25A	/	/	/														

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Relinquished By: <u>Mike Stubblefield</u> Relinquished By: <u>[Signature]</u> Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Date: <u>9/28/2012</u> Time: <u>8:30</u> Received By: <u>[Signature]</u> Date: <u>9/28/12</u> Time: <u>2:12</u> Received By: <u>[Signature]</u> Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> CHECKED BY: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: _____ REMARKS:
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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



2-3

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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3-3

[illegible]

APPENDIX II
EMAIL CORRESPONDENCE

Kimberly M. Wilson

From: David Adkins
Sent: Wednesday, October 31, 2012 10:36 AM
To: Kimberly M. Wilson
Subject: FW: Cedar Lake Disposal Facility

Chloride readings below. No comments or objections received from BLM or OCD.

David J. Adkins
District Manager
Talon/LPE
408 West Texas Avenue
Artesia, New Mexico 88210
(575) 746.8768 phone
(575) 746.8905 fax
(575) 441.4835 cell
Email: dadkins@talonlpe.com
Web: www.talonlpe.com



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Staples Foundation for Learning Hall of Fame Recipient: 2010
ICIC and Business Week- Top 100: 2010, 2009, 2008, 2007, 2006
Inc. 500/5000: 2012, 2011, 2010, 2009, 2008, 2007

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From: David Adkins
Sent: Thursday, October 25, 2012 2:28 PM
To: 'Amos, James A'
Cc: Bratcher, Mike, EMNRD; 'james campanella'
Subject: RE: Cedar Lake Disposal Facility

Gentlemen,

I wanted to let you know that we have collected seven (7) samples from the bottom of the tank battery. The field titration results for total chlorides are as follows:
567, 284, 141, 354, 141, 1063, and 141 mg/kg respectively. We will present these sample locations and a revised site plan in our closure report.

Mr. Campanella of Judah Oil informs me that he will begin backfilling the excavation and facility reconstruction activities on Monday, October 29. Please let me know if you have any questions or require anything further. Thank you.

Respectfully,

David J. Adkins
District Manager
Talon/LPE
408 West Texas Avenue
Artesia, New Mexico 88210
(575) 746.8768 phone
(575) 746.8905 fax
(575) 441.4835 cell
Email: dadkins@talonlpe.com
Web: www.talonlpe.com



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ICIC and Business Week- Top 100: 2010, 2009, 2008, 2007, 2006
Inc. 500/5000: 2012, 2011, 2010, 2009, 2008, 2007

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From: Amos, James A [mailto:jamos@blm.gov]
Sent: Thursday, October 25, 2012 6:46 AM
To: David Adkins
Subject: RE: Cedar Lake Disposal Facility

David I will be OK with this. I would like notification prior to backfill. thanks

From: David Adkins [mailto:dadkins@talonlpe.com]
Sent: Wednesday, October 24, 2012 4:54 PM
To: Amos, James A
Subject: FW: Cedar Lake Disposal Facility

Hello Mr. Amos,

Below please find my email trial with OCD re excavation closure at this facility. We're trying to get out of the way of Judah Oil's facility rebuild at this location and are asking permission to close the excavation. OCD's response was to take some field titration readings and if acceptable, it is ok to complete remediation activities. I wanted to make sure you were good with that and give you a chance to respond as well. Thank you for your time.

Respectfully,

David J. Adkins
District Manager
Talon/LPE
408 West Texas Avenue
Artesia, New Mexico 88210
(575) 746.8768 phone
(575) 746.8905 fax

(575) 441.4835 cell
Email: dadkins@talonlpe.com
Web: www.talonlpe.com



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From: Bratcher, Mike, EMNRD [<mailto:mike.bratcher@state.nm.us>]
Sent: Wednesday, October 24, 2012 4:08 PM
To: David Adkins
Subject: RE: Cedar Lake Disposal Facility

David,

I would OK with running some field screens in the area of BH-1. The elevated chloride levels were at the 4' interval, which is what was excavated. (The next sample interval was 6', so we know it cleaned up somewhere between 4'-6') If the field tests look OK, we will go with that. If not, you may just have to remove a little more material. You should also check with Jim Amos (BLM). He may want standard confirmation sample data from the lab for closure.

Mike Bratcher
NMOCD District 2
811 S. First Street
Artesia, NM 88210
O: 575-748-1283 X108
C: 575-626-0857
F: 575-748-9720

From: David Adkins [<mailto:dadkins@talonlpe.com>]
Sent: Wednesday, October 24, 2012 3:22 PM
To: Bratcher, Mike, EMNRD
Subject: Cedar Lake Disposal Facility

Hello Mr. Bratcher,

I wanted to follow up with you briefly on this project. We are completing the haul off and disposal of the material inside the tank battery per our work plan with you today. The reason that I'm writing is that I would like permission to not take confirmation samples at this location. As I look at the lab data, the excavated areas of 4-feet and 2-feet deep match up well with the soil analytical data presented in the work plan. Additionally, Judah Oil is installing a liner within the tank battery anyway and has an extremely tight time line for their liner install, delivery of their storage tanks, construction

work, etc. Our client would like to get us out of there and proceed with the rebuild of this facility ASAP. Water table in the vicinity appears to be 325-feet below land surface per the trend map.

On behalf of Judah Oil, we thank you for your consideration in this matter.

Respectfully,

David J. Adkins
District Manager
Talon/LPE
408 West Texas Avenue
Artesia, New Mexico 88210
(575) 746.8768 phone
(575) 746.8905 fax
(575) 441.4835 cell
Email: dadkins@talonlpe.com
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