

Bratcher, Mike, EMNRD

From: Michael Stubblefield <mstubblefield@talonlpe.com>
Sent: Wednesday, October 10, 2012 2:07 PM
To: Amos, James A
Cc: Bratcher, Mike, EMNRD; james campanella
Subject: PDF Document Judah Oil, LLC Cedar Lake SWD unloading station work plan.pdf
Attachments: Judah Oil, LLC Cedar Lake SWD unloading station work plan.pdf

Jim,

Talon/LPE is sending the work plan for the correction of the Cedar Lake SWD unloading station. A hard copy for the work plan is being sent to the Carlsbad BLM field office. Please review the work plan for BLM approval. On 10/10/2012 a meeting was held with NMOCD/Mike Bratcher, Mr. Bratcher verbally approved the work plan with the following added stipulation: The impacted soil located at soil sampling location labeled BH-1 will be excavated to a depth of 4-feet below ground surface. If further information is required please contact me.

Mike Stubblefield
Project Manager
Talon/LPE
408 West Texas Avenue
Artesia, New Mexico 88210
(575) 746.8768 phone
(575) 746.8905 fax
(575) 441.7254 cell
www.talonlpe.com



Better Business Bureau Torch Award for Marketplace Ethics: 2010 Winner, 2009 Finalist
Staples Foundation for Learning Hall of Fame Recipient: 2010
ICIC and Business Week- Top 100: 2010, 2009, 2008, 2007, 2006
Inc. 500/5000: 2011, 2010, 2009, 2008, 2007



October 10, 2012

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

Subject: **Soil Assessment and Remediation Work Plan**
Judah Oil, LLC
Cedar Lake SWD Unloading Station

Dear Mr. Bratcher,

Judah Oil has contracted Talon/LPE (Talon) to perform confirmation soil sampling activities at the referenced Cedar Lake SWD Unloading Station. The results of our soil assessment and proposed remediation activities consist of the following:

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. The fluid was contained in the tank facility pit area. A vacuum truck was called to recover the standing fluid.

ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

Toll Free: 866.742.0742
www.talonlpe.com

Actions Taken

On September 13, 2012 Talon/LPE mobilized personnel to the site to carry out soil sampling activities for the construction of a work plan. Grab soil samples were collected utilizing an air rotary drill rig and split spoon sampling techniques. Grab samples were collected to a depth of 30-feet below land surface. A site map is attached.

On September 27, 2011 Talon returned to the site to collect additional soil samples utilizing a track hoe. Grab samples were collected to a depth of 10-feet below land surface.

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

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. Chloride cleanup levels are considered to be 1,000 mg/kg.

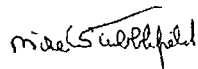
Proposed Remedial Actions

- The impacted area will be excavated to a depth of 2-feet deep. The excavated soil will be transported to a NMOCD approved solid waste disposal facility.
- The sample location S-9 will not be excavated due to infrastructure being located above the sample location. The impacted sidewall was horizontally delineated by the sample location S-10.
- Confirmation samples will be collected from the bottom and sidewalls of the excavation and presented to the OCD for permission to complete excavation activities.
- Upon NMOCD approval of the confirmation samples, the entire tank battery will be relined.
- The excavated area will be backfilled using new material transported from a local borrow pit. The area will be contoured to match the surrounding location.
- New tanks and infrastructure will be installed and the facility brought back into service.
- A final report documenting all field activities and lab reports will be provided to the NMOCD Artesia Office, including Form C-141.

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



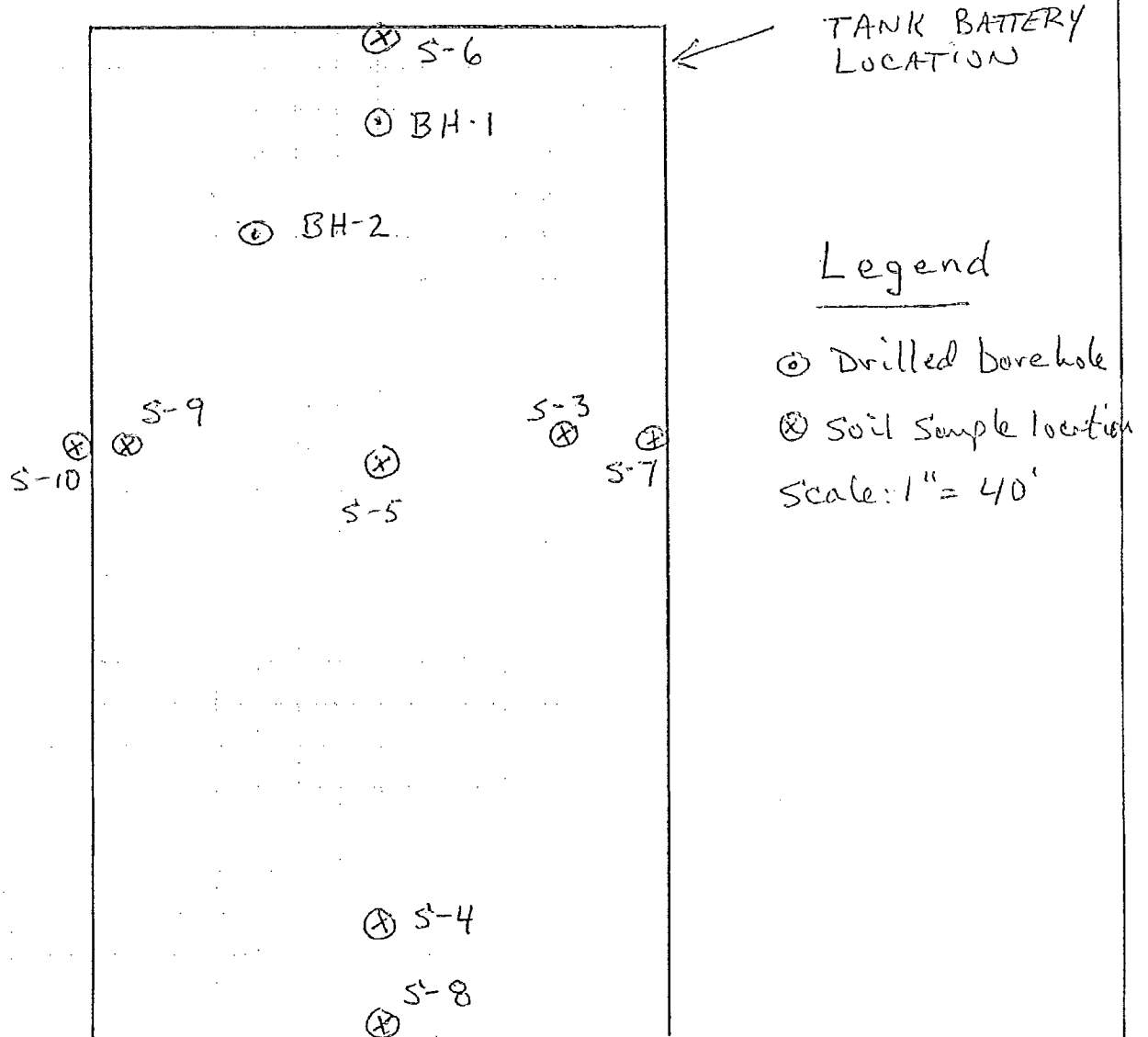
Project Map / Site Diagram

DRAW NORTH
ARROW HERE

4

AMARILLO • AUSTIN • MIDLAND • SAN ANTONIO • TYLER • TULSA, OK • ARTESIA, NM • HOBBS, NM

Date: 9/27/12	Time:	Project Manager: M. Stubblefield
Project Number and Name: JUDAH OIL - CEDAR LAKE SWD UNLOADING STA.		
Notes: Project # 701484.003.01		



Document must be submitted
with Drafting Request Form

Prepared by:

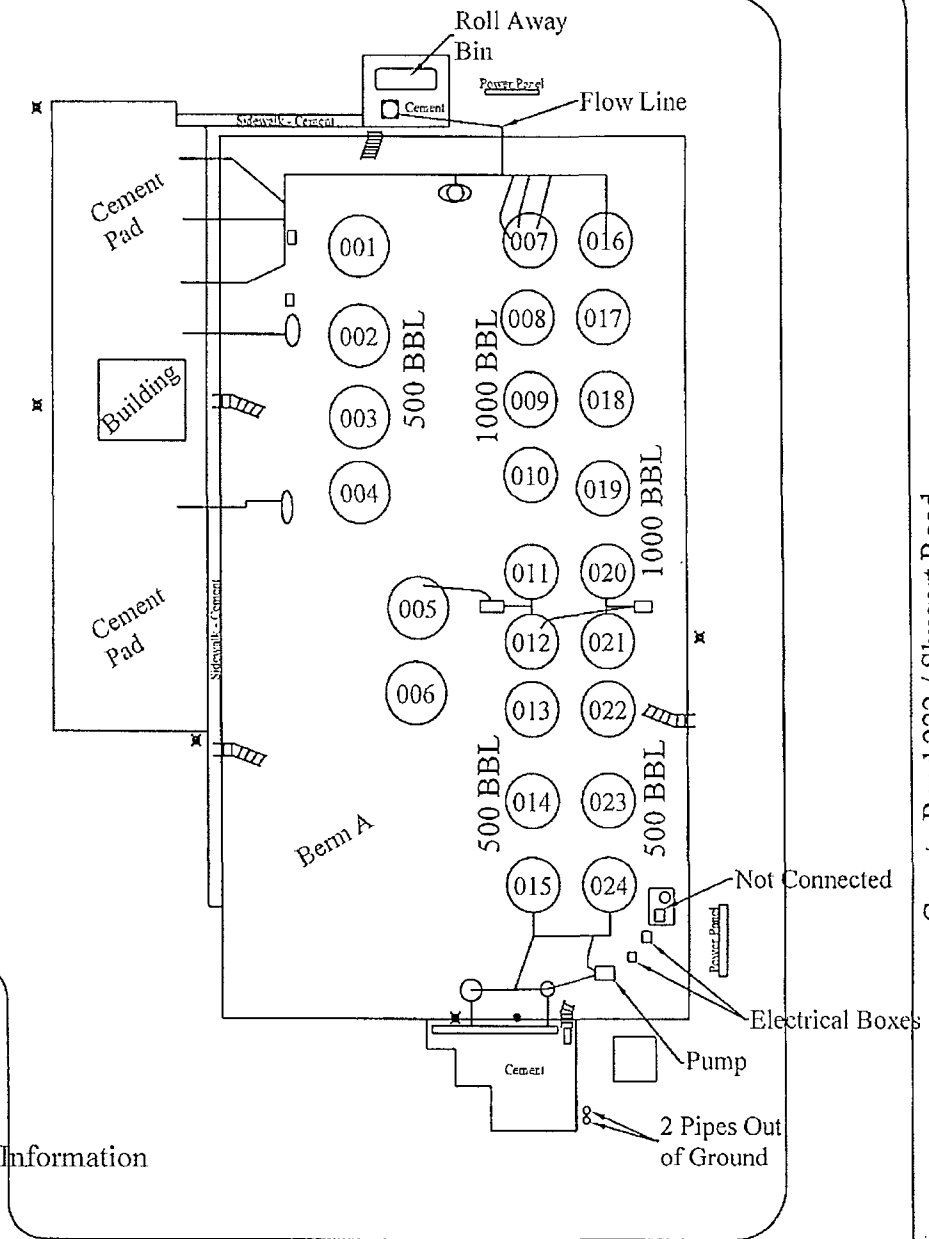
Page 1 of 1

Select One:
Scaled (1" = 40')/Measured

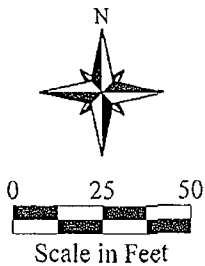
Lease Road

S

Grass



See Attached Page for Tank Information



Legend	
●	- Power Pole
✕	- Power Pole w/Lights
✕	- Light Pole
⌘	- Stairs
⌘	- Pump
○	- Secondary Containment 4' x 3' x 18"
○	- Compressor
➔	- Stormwater Flow Direction



Date: 04/19/2012

Scale: 1" = 50'

Drawn By: TJS

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

APPENDIX I
INITIAL C-141

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

State of New Mexico
Energy Minerals and Natural Resources

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	Judah Oil, LLC	Contact	James B. Campanella
Address	PO Box 568 Artesia, NM 88211	Telephone No.	575-748-5488
Facility Name	Cedar Lake Unloading Station	Facility Type	SWD

Surface Owner	BLM	Mineral Owner	BLM	API No.	N/A
---------------	-----	---------------	-----	---------	-----

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	29	17S	31E	N/A		N/A		Eddy

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Oil and Water	Volume of Release	11,910 bbls water 942 bbls of oil	Volume Recovered	Not Known
Source of Release	Tank Facility	Date and Hour of Occurrence	8/19/2012 12:03 a.m.	Date and Hour of Discovery	8/19/2012 12:03 a.m.
Was Immediate Notice Given?	☒ Yes ☐ No ☐ Not Required	If YES, To Whom?	12:03 a.m. Called 911, 12:14 a.m. Called OCD, 12:19 a.m. Called Jim Amos w/ BLM, 12:33 a.m. Called CVE, 12:50 talked to Jim Amos w/ Carlsbad BLM		
By Whom?	James Campanella	Date and Hour	See Above		
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

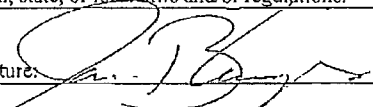
Lightning Struck Tank Facility, No action taken as of yet.

Describe Area Affected and Cleanup Action Taken.*

All tanks were burnt, fluid was contained in tank facility pit area. Planning immediate clean up. Pulling all fluids from tank pit area and removing all burnt debris, then will start contaminated soil remediation.

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.

OIL CONSERVATION DIVISION

Signature: 

Printed Name: James B Campanella

Title: Member Manager

E-mail Address: jbc@judahoil.com

Date: 8/20/2012

Phone: 575-746-1280

Approved by Environmental Specialist:

Approval Date:

Expiration Date:

Conditions of Approval:

Attached ☐

APPENDIX II
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



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 - 1 0' (H202233-01)

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 (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

Cardinal Laboratories

*=Accredited Analyte

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Coley 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 - 1 2' (H202233-02)

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 (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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Celest 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 - 1 4' (H202233-03)

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 (PIB) 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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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 6' (H202233-04)

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	09/21/2012	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 (PIE) 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	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 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 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	

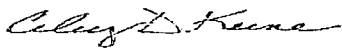
Sample ID: BH - 1 30' (H202233-10)

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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Celeste 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 0' (H202233-11)

BTEX 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 (PIE) 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

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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 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 (PID) 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



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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 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)

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 (PDE) 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

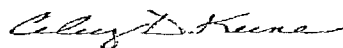
Sample ID: BH - 2 8' (H202233-15)

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

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: RM					
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	

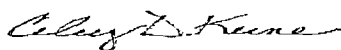
Sample ID: BH - 2 30' (H202233-20)

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	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

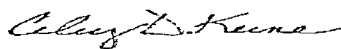
Notes and Definitions

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: Talon/LPE				BILL TO				ANALYSIS REQUEST																		
Project Manager: Mike Stubblefield				P.O. #:																						
Address: 408 West Texas Ave.				Company: Talon/LPE																						
City: Artesia State: NM Zip: 88210				Attn:																						
Phone #: 505-441-7254 Fax #:				Address:																						
Project #: 701484.003.01 Project Owner: Judah O/I, LLC				City:																						
Project Name: Cedar Lake SWD unloading station				State: Zip:																						
Project Location: sec. 29-T1N5-R31E				Phone #:																						
Sampler Name: Mike Stubblefield				Fax #:																						
FOR LAB USE ONLY						MATRIX		PRESERV	SAMPLING																	
Lab I.D.	Sample I.D.	GRAB OR (COMPOUND)	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME												
H202733																										
1	BH-1 0'	G				/				/			9/13/12	3:55 P												
2	BH-1 2'	G				/				/			9/13/12	3:00 P												
3	BH-1 4'	G				/				/			9/13/12	3:05 P												
4	BH-1 6'	G				/				/			9/13/12	3:10 P												
5	BH-1 8'	G				/				/			9/13/12	3:20 P												
6	BH-1 10'	G				/				/			9/13/12	3:25 P												
7	BH-1 15'	G				/				/			9/13/12	3:35 P												
8	BH-1 20'	G				/				/			9/13/12	3:40 P												
9	BH-1 25'	G				/				/			9/13/12	3:45 P												
10	BH-1 30'	G				/				/			9/13/12	3:50 P												

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Relinquished By:	Date: <i>9-14-12</i>	Received By:	Phone Result: ☐ Yes ☒ No	Add'l Phone #:
<i>Mike Stubblefield</i>	Time: <i>2:50</i>	<i>Shannon Reed</i>	Fax Result: ☐ Yes ☒ No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			

Delivered By: (Circle One) Sampler - UPS - Bus - <u>Other</u>	Sample Condition Cool ☒ Intact ☒ Yes ☒ No ☐	CHECKED BY: (Initials) <i>[Signature]</i>
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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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

† 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,

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)

BTEX 80218			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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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)

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 (PIC) 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

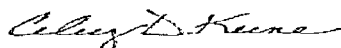
Sample ID: S - 3 4' BGS (H202374-03)

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	

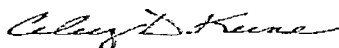
Sample ID: S - 3 10' BGS (H202374-06)

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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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	101	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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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)

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) 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					
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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 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	

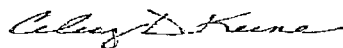
Sample ID: S - 4 10' BGS (H202374-12)

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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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 0' (H202374-13)

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*	0.102	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 (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	1170	16.0	10/03/2012	ND	400	100	400	4.08	
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	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
 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 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 (PIE) 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					

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

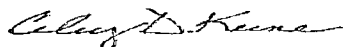
Sample ID: S - 5 4' BGS (H202374-15)

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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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	

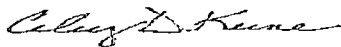
Sample ID: S - 5 10' BGS (H202374-18)

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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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

Cardinal Laboratories

*=Accredited Analyte

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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 - 7 (H202374-20)

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 (PIE) 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 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	

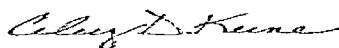
Surrogate: 1-Chlorooctane 95.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.9 % 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 - 8 (H202374-21)

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 (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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* = Accredited Analyte

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Celest 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)

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 (PIB) 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	4.03		

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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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 - 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 (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	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	

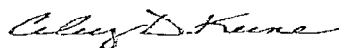
Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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*==Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

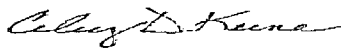
Notes and Definitions

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.
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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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

1-3

Company Name: <u>Talon/LPE</u>				BILL TO				ANALYSIS REQUEST															
Project Manager: <u>Mike Stubblefield</u>				P.O. #:																			
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>575-441-0254</u> Fax #:				Address:																			
Project #: <u>701484-003.01</u> Project Owner: <u>Judah, LLC</u>				City:																			
Project Name: <u>Cedar Lake SWD unloading station</u>				State: Zip:																			
Project Location: <u>scr. 29-THE-R31E</u>				Phone #:																			
Sampler Name: <u>Mike Stubblefield</u>				Fax #:																			
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	8015M TPH	80210 BTEX	Total chlorides						
<u>H2D2374</u>																							
1	5-3 0'												9/27/12	10:15A									
2	5-3 2' bgs												9/27/12	10:20A									
3	5-3 4' bgs												9/27/12	10:25A									
4	5-3 6' bgs												9/27/12	10:30A									
5	5-3 8' bgs												9/27/12	10:35A									
6	5-3 10' bgs												9/27/12	10:40A									
7	5-4 0'												9/27/12	11:10A									
8	5-4 2' bgs												9/27/12	11:15A									
9	5-4 4' bgs												9/27/12	11:20A									
10	5-4 6' bgs												9/27/12	11:25A									

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Relinquished By:	Date: <u>9/28/2012</u>	Received By:	Phone Result: ☐ Yes ☐ No	Add'l Phone #:
<u>Mike Stubblefield</u>	Time: <u>2:30</u>	<u>[Signature]</u>	Fax Result: ☐ Yes ☐ No	Add'l Fax #:
Relinquished By:	Date: <u>9/28/12</u>	Received By:	REMARKS:	
<u>[Signature]</u>	Time: <u>2:10</u>	<u>Jodi Benson</u>		
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool Intact	(Initials)		
	☐ Yes ☐ No	<u>[Signature]</u>		

† 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

2-3

Company Name: <u>Talon/LPE</u>				BILL TO				ANALYSIS REQUEST																		
Project Manager: <u>Mike Stubblefield</u>				P.O. #:																						
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>575-441-7254</u> Fax #:				Address:																						
Project #: <u>201484.003.01</u> Project Owner: <u>Judah Oil, LLC</u>				City:																						
Project Name: <u>Sedar 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				MATRIX		PRESERV.		SAMPLING																		
Lab I.D.	Sample I.D.	(GRAB OR COMP.)	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME													
<u>H202374</u>																										
<u>11</u>	<u>5-4 8' bgs</u>	<u>2</u>		<u>/</u>					<u>/</u>			<u>9/27/12</u>	<u>11:30A</u>	<u>/</u>	<u>/</u>	<u>/</u>										
<u>12</u>	<u>5-4 10' bgs</u>	<u>2</u>		<u>/</u>					<u>/</u>			<u>9/27/12</u>	<u>11:35A</u>	<u>/</u>	<u>/</u>	<u>/</u>										
<u>13</u>	<u>5-5 0'</u>	<u>2</u>		<u>/</u>					<u>/</u>			<u>9/27/12</u>	<u>11:50A</u>	<u>/</u>	<u>/</u>	<u>/</u>										
<u>14</u>	<u>5-5 2' bgs</u>	<u>2</u>		<u>/</u>					<u>/</u>			<u>9/27/12</u>	<u>11:55A</u>	<u>/</u>	<u>/</u>	<u>/</u>										
<u>15</u>	<u>5-5 4' bgs</u>	<u>2</u>		<u>/</u>					<u>/</u>			<u>9/27/12</u>	<u>12:00P</u>	<u>/</u>	<u>/</u>	<u>/</u>										
<u>16</u>	<u>5-5 6' bgs</u>	<u>2</u>		<u>/</u>					<u>/</u>			<u>9/27/12</u>	<u>12:05P</u>	<u>/</u>	<u>/</u>	<u>/</u>										
<u>17</u>	<u>5-5 8' bgs</u>	<u>2</u>		<u>/</u>					<u>/</u>			<u>9/27/12</u>	<u>12:10P</u>	<u>/</u>	<u>/</u>	<u>/</u>										
<u>18</u>	<u>5-5 10' bgs</u>	<u>2</u>		<u>/</u>					<u>/</u>			<u>9/27/12</u>	<u>12:15P</u>	<u>/</u>	<u>/</u>	<u>/</u>										
<u>19</u>	<u>5-6</u>	<u>2</u>		<u>/</u>					<u>/</u>			<u>9/27/12</u>	<u>1:15P</u>	<u>/</u>	<u>/</u>	<u>/</u>										
<u>20</u>	<u>5-7</u>	<u>2</u>		<u>/</u>					<u>/</u>			<u>9/27/12</u>	<u>1:20P</u>	<u>/</u>	<u>/</u>	<u>/</u>										

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Relinquished By: <u>Mike Stubblefield</u>	Date: <u>9/28/12</u>	Received By: <u>[Signature]</u>	Phone Result: ☐ Yes ☐ No	Add'l Phone #: _____
Relinquished By: <u>[Signature]</u>	Date: <u>9/28/12</u>	Received By: <u>[Signature]</u>	Fax Result: ☐ Yes ☐ No	Add'l Fax #: _____
Delivered By: (Circle One)	Sample Condition		CHECKED BY: <u>[Signature]</u>	
Sampler - UPS - Bus - Other:	Cool / Intact	Yes / No		
	☐ Yes ☐ No	☐ Yes ☐ No		

† 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

3-3

Company Name: <u>Talon/LPE</u>				BILL TO				ANALYSIS REQUEST											
Project Manager: <u>Mike Stuebel</u>				P.O. #:															
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>575-441-2254</u> Fax #:				Address:															
Project #: <u>101484.009.01</u> Project Owner: <u>Judo Oil, LLC</u>				City:															
Project Name: <u>Cedar Lake SWD unloading station</u>				State: Zip:															
Project Location: <u>Sec. 29-T19S-R21E</u>				Phone #:															
Sampler Name: <u>Mike Stuebel</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(O)RABOR (O)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING													
				GROUNDWATER															
				WASTEWATER															
				SOIL															
				SLUDGE															
				OTHER															
				ACID/BASE:															
				ICE / COOL															
				OTHER															
						DATE	TIME												
<u>H202374</u>																			
<u>21 S-8</u>		<u>S</u>				<u>9/27/12</u>	<u>1:25P</u>												
<u>22 S-9</u>		<u>S</u>				<u>9/27/12</u>	<u>1:30P</u>												
<u>23 S-10</u>		<u>S</u>				<u>9/27/12</u>	<u>2:45P</u>												

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of data, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date:	Received By:	Phone Result:	☐ Yes	☐ No	Add'l Phone #:
<u>Mike Stuebel</u>	<u>9/28/12</u>	<u>[Signature]</u>	Fax Result:	☐ Yes	☐ No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:			
<u>[Signature]</u>	<u>9/28/12</u>	<u>[Signature]</u>				
Delivered By: (Circle One)	Sample Condition	CHECKED BY:				
Sampler - UPS - Bus - Other:	Cool / Intact	(Initials)				
	☐ Yes ☒ No	<u>[Signature]</u>				

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

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