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Fax 575.748.8905

HOBBS
318 East Taylor Street
Hobbs, New Mexico 88241
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Fax 505.393.4658

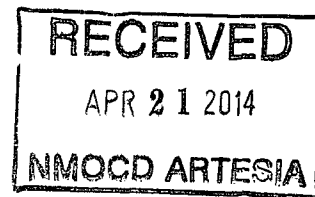
MIDLAND
2901 State Highway 349
Midland, Texas 79706
Phone 432.522.2133
Fax 432.522.2180

OKLAHOMA CITY
7700 North Hudson Ave
Suite 10
Oklahoma City, Oklahoma 73116
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Fax 806.467.0622

SAN ANTONIO
13111 Lookout Way
San Antonio, TX 78233
Phone 210.265.8025
Fax 210.568.2191

April 9, 2014

Mr. Mike Bratcher
NMOCD District 2
811 S. 1st Street
Artesia, NM 88210



Subject: **Soil Assessment and Remediation Work Plan**
Devon Energy
Remuda Basin SWD #1
30-015-29549

Dear Mr. Bratcher:

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

Incident Date

February 11, 2014

Background Information

The Remuda Basin SWD No. 1 is located approximately twenty-eight (28) miles southwest of Carlsbad, New Mexico. The legal location for this site is Section 20, Township 23 South, and Range 30 East. More specifically the latitude and longitude for the release are 32.2966716 North and -103.90964 West. A site plan is presented in **Appendix I**.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Reeves-Gypsum land complex soils with 0 to 3 percent slopes. The local surface and shallow geology, Quaternary Age sedimentary deposits, is comprised of alluvium and eolian sands which includes silty soils underlain by gypsum and hard caliches. Drainage courses in this area are normally dry. According to the New Mexico Office of the State Engineer there are 2 wells in the vicinity and both appear to be dry wells. See **Appendix II** for the referenced groundwater data.

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

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

ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

Incident Description

Due to internal corrosion, a nipple inside the pump caused it to break off the suction line to the H pump releasing 10 barrels of produced water on the west end of the facility under the H pump and off the location into the pasture. The affected area measured approximately 42-feet wide by 120-feet long. A vacuum truck was immediately called to the location and recovered 4 barrels of fluid. Talon mobilized personnel to conduct soil sampling within the facility and along the flow path. The results of these sampling activities are summarized in the table below.

Laboratory Results

See Appendix III for complete report of laboratory results.

February 27, 2014

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
BG-1	0'	--	<16	--	--
S-1	0'	<0.300	44400	<10	63.2
	1'	<0.300	30000	<10	<10
	2'	--	34000	--	--
S-2	0'	<0.300	19200	<10	<10
S-3	0'	<0.300	752	<10	<10
	1'	<0.300	4800	<10	<10
S-4	0'	<0.300	27200	<10	<10
	1'	<0.300	5760	<10	<10
S-5	0'	<0.300	72800	<10	126
	1'	<0.300	192	<10	<10
S-6	0'	<0.300	11200	<10	<10
	1'	<0.300	4000	<10	<10
	2'	--	2400	--	--
	3'	--	6240	--	--

--Analyte Not Tested

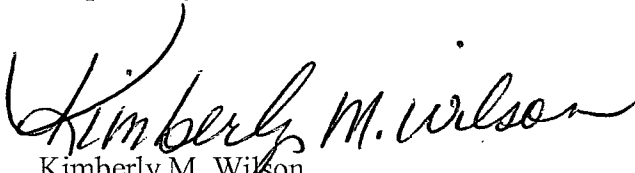
Based upon the site ranking of 0, NMOCD Recommended Remedial Action Levels (RRAL's) are 50 mg/kg for BTEX, 10 mg for Benzene, and 5,000 mg/kg for TPH.

Proposed Remedial Actions

- Per the BLM, the impacted areas on the location will be scraped and then rebuilt. The excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- The impacted area in the vicinity of sample location S-5 will be excavated to a depth of 0.5-feet, backfilled with new topsoil, contoured to match the surrounding terrain and upon completion will be seeded with the recommended BLM seed mix.
- The impacted area in the vicinity of sample location S-6 will be excavated to a depth of 3.5-feet and tested using the field titration method for chlorides for horizontal delineation purposes.
- Upon receipt of acceptable field sampling results, the excavation will then be backfilled with topsoil, contoured to match the surrounding terrain and seeded with the recommended BLM seed mix.

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

Respectfully submitted,


Kimberly M. Wilson
Project Manager


David J. Adkins
District Manager

APPENDIX I

SITE MAP



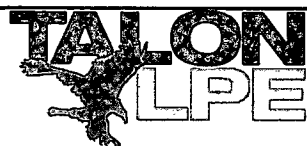
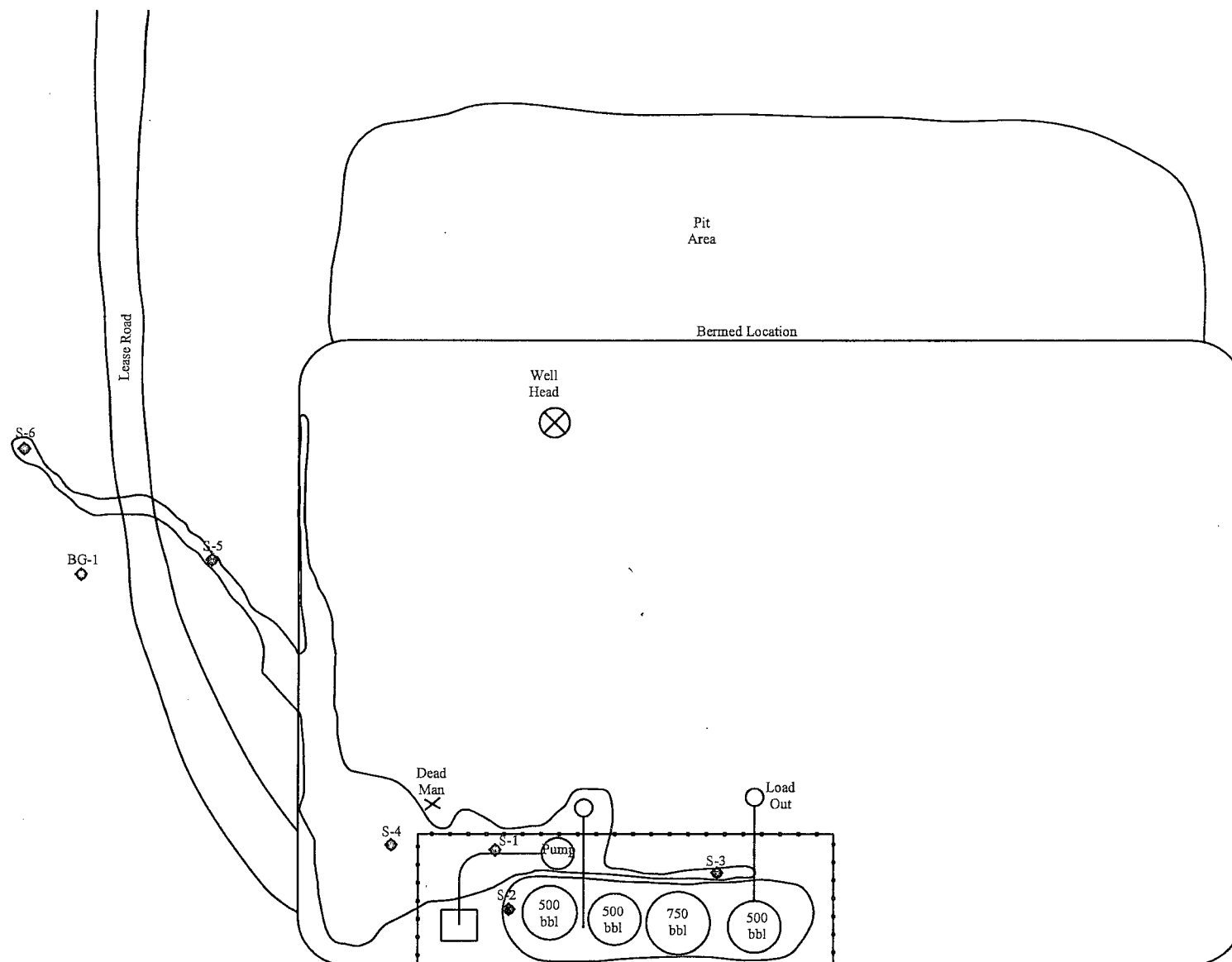
NTS



Scale in Feet

Legend

- ◆ - Sample Location
- - Fence Line



Date: 03/12/2014

Scale: NTS

Drawn By: TJS

Remuda Basin SWD #1
Devon Energy Corporation
Eddy County, New Mexico
Figure 1 - Site Plan

APPENDIX II
GROUNDWATER DATA
INITIAL C-141



New Mexico Office of the State Engineer Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters) (In feet)

POD Number	POD Sub-Code	basin	County	Q 1	Q 2	Q 3	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water Column
C 02486	C		ED	3	2	3		19	23S	30E	601304	3572832*	1583	350	
C 03478 POD1	C		ED	2	2	1		21	23S	30E	604825	3573894	2309	300	

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 602516

Northing (Y): 3573851

Radius: 5000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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 Devon Energy	Contact Tracy Kidd
Address PO Box 250 Artesia, NM 88211	Telephone No. 575-513-0628
Facility Name Remuda Basin SWD 1	Facility Type Salt Water Disposal Well

Surface Owner Federal	Mineral Owner Federal	API No. 30-015-29549
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LOCATION OF RELEASE

Unit Letter D	Section 20	Township 23S	Range 30E	Feet from the 330	North/South Line North	Feet from the 660	East/West Line West	County Eddy
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Latitude: 32.2966716 ___ Longitude: -103.90964__

NATURE OF RELEASE

Type of Release Spill	Volume of Release 10Bbls	Volume Recovered 4Bbls
Source of Release mechanical failure	Date and Hour of Occurrence 02.11.2014 11:30 AM	Date and Hour of Discovery 02.11.2014 11:30 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Aaron Kidd- Assistant Production Foreman	
By Whom? Jimmy Tarvin- Lease Operator	Date and Hour 02.11.2014 11:30 AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.*

Approximately 10 Bbls of Produced water was discovered spilled on the west end of the Remuda Basin SWD 1 facility under the H pump. The water also flowed onto the pasture on the west side of the site. Size of area affected: 42'x120'.

Due to internal corrosion inside the ½ inch nipple, vibration from the pump weakened the nipple causing it to break off the suction line to the H pump. The burn on location was repaired and Globe Services recovered 4 Bbls of the 10 Bbls of spilled produced water via vac truck. Pump will be balanced to reduce vibration, two more braces will be installed to support discharge line and mounting brackets will be installed for the murphy switches on the pump.

Describe Area Affected and Cleanup Action Taken.*

Vac truck recovered 4Bbls of the 10 Bbls spilled. Talon LPE to gather soil samples for analyzing. Based on the soil sample results, the Bureau of Land management will make the determination regarding whether to remove and replace the affected soil or any other remedial actions necessary.

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

Signature: <i>Sandra Farley</i>	OIL CONSERVATION DIVISION		
Printed Name: Sandra Farley	Approved by Environmental Specialist:		
Title: Field Admin Support	Approval Date:	Expiration Date:	
E-mail Address: Sandy.Farley@dvn.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 02.12.2014	Phone: 575.746.5587		

* Attach Additional Sheets If Necessary

APPENDIX III
LABORATORY RESULTS



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

February 27, 2014

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: REMUDA FED #1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 02/18/14 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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 "Coley D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/18/2014
Reported: 02/27/2014
Project Name: REMUDA FED #1 SWD
Project Number: 700794.095.01
Project Location: DEVON

Sampling Date: 02/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BG-1 0' (H400491-01)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/23/2014	ND	400	100	400	0.00	

Sample ID: S-1 0' (H400491-02)

BTEX 8260B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2014	ND	1.99	99.7	2.00	0.204	
Toluene*	<0.050	0.050	02/26/2014	ND	2.07	103	2.00	3.76	
Ethylbenzene*	<0.050	0.050	02/26/2014	ND	1.92	96.2	2.00	2.22	
Total Xylenes*	<0.150	0.150	02/26/2014	ND	5.86	97.7	6.00	2.99	
Total BTEX	<0.300	0.300	02/26/2014	ND					

Surrogate: Dibromofluoromethane 96.1 % 61.3-142

Surrogate: Toluene-d8 99.8 % 71.3-129

Surrogate: 4-Bromofluorobenzene 111 % 65.7-141

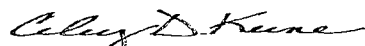
Chloride, SM4500Cl-B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	44400	16.0	02/23/2014	ND	400	100	400	0.00	

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	02/22/2014	ND	212	106	200	3.59	
DRO >C10-C28	63.2	10.0	02/22/2014	ND	208	104	200	3.19	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/18/2014
Reported: 02/27/2014
Project Name: REMUDA FED #1 SWD
Project Number: 700794.095.01
Project Location: DEVON

Sampling Date: 02/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

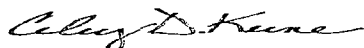
Sample ID: S-1 0' (H400491-02)

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: 1-Chlorooctane	102 %	65.2-140							
Surrogate: 1-Chlorooctadecane	117 %	63.6-154							

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

Received: 02/18/2014
Reported: 02/27/2014
Project Name: REMUDA FED #1 SWD
Project Number: 700794.095.01
Project Location: DEVON

Sampling Date: 02/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 1' (H400491-03)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2014	ND	1.99	99.7	2.00	0.204	
Toluene*	<0.050	0.050	02/26/2014	ND	2.07	103	2.00	3.76	
Ethylbenzene*	<0.050	0.050	02/26/2014	ND	1.92	96.2	2.00	2.22	
Total Xylenes*	<0.150	0.150	02/26/2014	ND	5.86	97.7	6.00	2.99	
Total BTX	<0.300	0.300	02/26/2014	ND					

Surrogate: Dibromofluoromethane 98.6 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	30000	16.0	02/23/2014	ND	400	100	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	02/22/2014	ND	212	106	200	3.59	
DRO >C10-C28	<10.0	10.0	02/22/2014	ND	208	104	200	3.19	

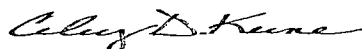
Surrogate: 1-Chlorooctane 95.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 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
KIMBERLY WILSON
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 02/18/2014
Reported: 02/27/2014
Project Name: REMUDA FED #1 SWD
Project Number: 700794.095.01
Project Location: DEVON

Sampling Date: 02/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

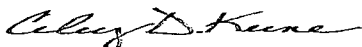
Sample ID: S-1 2' REFUSAL (H400491-04)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	34000	16.0	02/23/2014	ND	400	100	400	0.00	

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* = Accredited Analyte

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Fax To: (575) 745-8905

Received: 02/18/2014
Reported: 02/27/2014
Project Name: REMUDA FED #1 SWD
Project Number: 700794.095.01
Project Location: DEVON

Sampling Date: 02/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 0' (H400491-05)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2014	ND	1.99	99.7	2.00	0.204	
Toluene*	<0.050	0.050	02/26/2014	ND	2.07	103	2.00	3.76	
Ethylbenzene*	<0.050	0.050	02/26/2014	ND	1.92	96.2	2.00	2.22	
Total Xylenes*	<0.150	0.150	02/26/2014	ND	5.86	97.7	6.00	2.99	
Total BTX	<0.300	0.300	02/26/2014	ND					

Surrogate: Dibromofluoromethane 96.6 % 61.3-142
Surrogate: Toluene-d8 99.8 % 71.3-129
Surrogate: 4-Bromofluorobenzene 100 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19200	16.0	02/23/2014	ND	400	100	400	0.00	

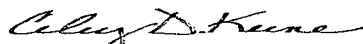
TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/22/2014	ND	212	106	200	3.59	
DRO >C10-C28	<10.0	10.0	02/22/2014	ND	208	104	200	3.19	

Surrogate: 1-Chlorooctane 99.6 % 65.2-140
Surrogate: 1-Chlorooctadecane 107 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/18/2014
Reported: 02/27/2014
Project Name: REMUDA FED #1 SWD
Project Number: 700794.095.01
Project Location: DEVON

Sampling Date: 02/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 0' (H400491-06)

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2014	ND	1.99	99.7	2.00	0.204	
Toluene*	<0.050	0.050	02/26/2014	ND	2.07	103	2.00	3.76	
Ethylbenzene*	<0.050	0.050	02/26/2014	ND	1.92	96.2	2.00	2.22	
Total Xylenes*	<0.150	0.150	02/26/2014	ND	5.86	97.7	6.00	2.99	
Total BTEX	<0.300	0.300	02/26/2014	ND					

Surrogate: Dibromofluoromethane 93.5 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 99.2 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	02/23/2014	ND	400	100	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	02/22/2014	ND	212	106	200	3.59	
DRO >C10-C28	<10.0	10.0	02/22/2014	ND	208	104	200	3.19	

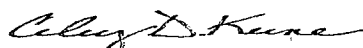
Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 02/18/2014
 Reported: 02/27/2014
 Project Name: REMUDA FED #1 SWD
 Project Number: 700794.095.01
 Project Location: DEVON

 Sampling Date: 02/14/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-3 1' REFUSAL (H400491-07)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2014	ND	1.99	99.7	2.00	0.204	
Toluene*	<0.050	0.050	02/26/2014	ND	2.07	103	2.00	3.76	
Ethylbenzene*	<0.050	0.050	02/26/2014	ND	1.92	96.2	2.00	2.22	
Total Xylenes*	<0.150	0.150	02/26/2014	ND	5.86	97.7	6.00	2.99	
Total BTEX	<0.300	0.300	02/26/2014	ND					

Surrogate: Dibromofluoromethane 96.6 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 99.3 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	02/23/2014	ND	400	100	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	02/22/2014	ND	212	106	200	3.59	
DRO >C10-C28	<10.0	10.0	02/22/2014	ND	208	104	200	3.19	


Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 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
 KIMBERLY WILSON
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 02/18/2014
 Reported: 02/27/2014
 Project Name: REMUDA FED #1 SWD
 Project Number: 700794.095.01
 Project Location: DEVON

 Sampling Date: 02/14/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-4 0' (H400491-08)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2014	ND	1.99	99.7	2.00	0.204	
Toluene*	<0.050	0.050	02/26/2014	ND	2.07	103	2.00	3.76	
Ethylbenzene*	<0.050	0.050	02/26/2014	ND	1.92	96.2	2.00	2.22	
Total Xylenes*	<0.150	0.150	02/26/2014	ND	5.86	97.7	6.00	2.99	
Total BTEX	<0.300	0.300	02/26/2014	ND					

Surrogate: Dibromofluoromethane 96.8 % 61.3-142

Surrogate: Toluene-d8 99.4 % 71.3-129

Surrogate: 4-Bromofluorobenzene 99.8 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	27200	16.0	02/23/2014	ND	400	100	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	02/22/2014	ND	212	106	200	3.59	
DRO >C10-C28	<10.0	10.0	02/22/2014	ND	208	104	200	3.19	

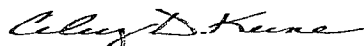
Surrogate: 1-Chlorooctane 96.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 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
KIMBERLY WILSON
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 02/18/2014
Reported: 02/27/2014
Project Name: REMUDA FED #1 SWD
Project Number: 700794.095.01
Project Location: DEVON

Sampling Date: 02/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 1' REFUSAL (H400491-09)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2014	ND	1.99	99.7	2.00	0.204	
Toluene*	<0.050	0.050	02/26/2014	ND	2.07	103	2.00	3.76	
Ethylbenzene*	<0.050	0.050	02/26/2014	ND	1.92	96.2	2.00	2.22	
Total Xylenes*	<0.150	0.150	02/26/2014	ND	5.86	97.7	6.00	2.99	
Total BTX	<0.300	0.300	02/26/2014	ND					

Surrogate: Dibromofluoromethane 95.4 % 61.3-142
Surrogate: Toluene-d8 101 % 71.3-129
Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5760	16.0	02/23/2014	ND	416	104	400	3.92	

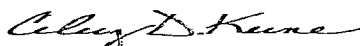
TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/22/2014	ND	212	106	200	3.59	
DRO >C10-C28	<10.0	10.0	02/22/2014	ND	208	104	200	3.19	

Surrogate: 1-Chlorooctane 97.8 % 65.2-140
Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/18/2014
Reported: 02/27/2014
Project Name: REMUDA FED #1 SWD
Project Number: 700794.095.01
Project Location: DEVON

Sampling Date: 02/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-5 0' (H400491-10)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2014	ND	1.99	99.7	2.00	0.204	
Toluene*	<0.050	0.050	02/26/2014	ND	2.07	103	2.00	3.76	
Ethylbenzene*	<0.050	0.050	02/26/2014	ND	1.92	96.2	2.00	2.22	
Total Xylenes*	<0.150	0.150	02/26/2014	ND	5.86	97.7	6.00	2.99	
Total BTEX	<0.300	0.300	02/26/2014	ND					

Surrogate: Dibromofluoromethane 97.4 % 61.3-142

Surrogate: Toluene-d8 99.9 % 71.3-129

Surrogate: 4-Bromofluorobenzene 97.5 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	72800	16.0	02/23/2014	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	02/22/2014	ND	212	106	200	3.59	
DRO >C10-C28	<10.0	10.0	02/22/2014	ND	208	104	200	3.19	

Surrogate: 1-Chlorooctane 89.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.6 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/18/2014	Sampling Date:	02/14/2014
Reported:	02/27/2014	Sampling Type:	Soil
Project Name:	REMUDA FED #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	700794.095.01	Sample Received By:	Jodi Henson
Project Location:	DEVON		

Sample ID: S-5 1' REFUSAL (H400491-11)

BTEX 8260B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2014	ND	1.99	99.7	2.00	0.204	
Toluene*	<0.050	0.050	02/26/2014	ND	2.07	103	2.00	3.76	
Ethylbenzene*	<0.050	0.050	02/26/2014	ND	1.92	96.2	2.00	2.22	
Total Xylenes*	<0.150	0.150	02/26/2014	ND	5.86	97.7	6.00	2.99	
Total BTEX	<0.300	0.300	02/26/2014	ND					

Surrogate: Dibromofluoromethane 96.4 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/23/2014	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	02/22/2014	ND	212	106	200	3.59	
DRO >C10-C28	<10.0	10.0	02/22/2014	ND	208	104	200	3.19	

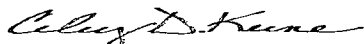
Surrogate: 1-Chlorooctane 100 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/18/2014
Reported: 02/27/2014
Project Name: REMUDA FED #1 SWD
Project Number: 700794.095.01
Project Location: DEVON

Sampling Date: 02/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-6 0' (H400491-12)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2014	ND	1.99	99.7	2.00	0.204	
Toluene*	<0.050	0.050	02/26/2014	ND	2.07	103	2.00	3.76	
Ethylbenzene*	<0.050	0.050	02/26/2014	ND	1.92	96.2	2.00	2.22	
Total Xylenes*	<0.150	0.150	02/26/2014	ND	5.86	97.7	6.00	2.99	
Total BTEX	<0.300	0.300	02/26/2014	ND					

Surrogate: Dibromofluoromethane 98.5 % 61.3-142
Surrogate: Toluene-d8 102 % 71.3-129
Surrogate: 4-Bromofluorobenzene 99.5 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11200	16.0	02/23/2014	ND	416	104	400	3.92	

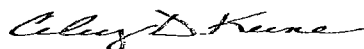
TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/22/2014	ND	212	106	200	3.59	
DRO >C10-C28	<10.0	10.0	02/22/2014	ND	208	104	200	3.19	

Surrogate: 1-Chlorooctane 91.7 % 65.2-140
Surrogate: 1-Chlorooctadecane 94.6 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/18/2014
Reported: 02/27/2014
Project Name: REMUDA FED #1 SWD
Project Number: 700794.095.01
Project Location: DEVON

Sampling Date: 02/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-6 1' (H400491-13)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2014	ND	1.99	99.7	2.00	0.204	
Toluene*	<0.050	0.050	02/26/2014	ND	2.07	103	2.00	3.76	
Ethylbenzene*	<0.050	0.050	02/26/2014	ND	1.92	96.2	2.00	2.22	
Total Xylenes*	<0.150	0.150	02/26/2014	ND	5.86	97.7	6.00	2.99	
Total BTEX	<0.300	0.300	02/26/2014	ND					

Surrogate: Dibromofluoromethane 96.5 % 61.3-142
Surrogate: Toluene-d8 104 % 71.3-129
Surrogate: 4-Bromofluorobenzene 101 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	02/23/2014	ND	416	104	400	3.92	

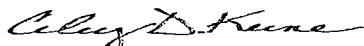
TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/22/2014	ND	212	106	200	3.59	
DRO >C10-C28	<10.0	10.0	02/22/2014	ND	208	104	200	3.19	

Surrogate: 1-Chlorooctane 97.8 % 65.2-140
Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/18/2014
Reported: 02/27/2014
Project Name: REMUDA FED #1 SWD
Project Number: 700794.095.01
Project Location: DEVON

Sampling Date: 02/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-6 2' (H400491-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	02/23/2014	ND	416	104	400	3.92	

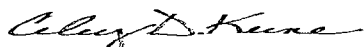
Sample ID: S-6 3' REFUSAL (H400491-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6240	16.0	02/23/2014	ND	416	104	400	3.92	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

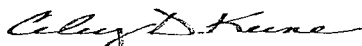
Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 17 of 18

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>K. Wilson</u>		P.O. #:		<div style="display: flex; justify-content: space-around;"> <div>TPH</div> <div>BTEX</div> <div>Chlorides</div> </div>																							
Address: <u>408 W. Texas Ave.</u>		Company: <u>Talon/LPE</u>																									
City: <u>Artesia</u> State: <u>NM</u> Zip: <u>88210</u>		Attn:																									
Phone #: <u>575-746-8768</u> Fax #: <u>575-746-8905</u>		Address:																									
Project #: <u>700794.095.01</u> Project Owner: <u>Devon</u>		City:																									
Project Name: <u>Remuda Fed #1 SWD</u>		State: Zip:																									
Project Location:		Phone #:																									
Sampler Name: <u>S. Hitchcock</u>		Fax #:																									
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.			SAMPLING															
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE	TIME													
	<u>H40D491</u>																										
	<u>1</u>	<u>B-6-1 0'</u>	<u>G-1</u>			<u>/</u>					<u>/</u>		<u>2/14/14</u>	<u>10:25</u>	<u>/</u>	<u>/</u>	<u>/</u>										
	<u>2</u>	<u>S-1 0'</u>	<u>G-1</u>			<u>/</u>					<u>/</u>			<u>9:30</u>	<u>/</u>	<u>/</u>	<u>/</u>										
	<u>3</u>	<u>S-1 1'</u>	<u>G-1</u>			<u>/</u>					<u>/</u>			<u>9:32</u>	<u>/</u>	<u>/</u>	<u>/</u>										
	<u>4</u>	<u>S-1 2' refusal</u>	<u>G-1</u>			<u>/</u>					<u>/</u>			<u>9:34</u>	<u>/</u>	<u>/</u>	<u>/</u>										
	<u>5</u>	<u>S-2 0'</u>	<u>G-1</u>			<u>/</u>					<u>/</u>			<u>9:38</u>	<u>/</u>	<u>/</u>	<u>/</u>										
	<u>6</u>	<u>S-3 0'</u>	<u>G-1</u>			<u>/</u>					<u>/</u>			<u>9:48</u>	<u>/</u>	<u>/</u>	<u>/</u>										
	<u>7</u>	<u>S-3 1' refusal</u>	<u>G-1</u>			<u>/</u>					<u>/</u>			<u>9:55</u>	<u>/</u>	<u>/</u>	<u>/</u>										
	<u>8</u>	<u>S-4 0'</u>	<u>G-1</u>			<u>/</u>					<u>/</u>			<u>10:00</u>	<u>/</u>	<u>/</u>	<u>/</u>										
	<u>9</u>	<u>S-4 1' refusal</u>	<u>G-1</u>			<u>/</u>					<u>/</u>			<u>10:02</u>	<u>/</u>	<u>/</u>	<u>/</u>										
	<u>10</u>	<u>S-5 0'</u>	<u>G-1</u>			<u>/</u>					<u>/</u>			<u>10:05</u>	<u>/</u>	<u>/</u>	<u>/</u>										

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Relinquished By: <u>Sheldon Newton</u>	Date: <u>2/18/14</u>	Received By: <u>Jodi Benson</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>2:50</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 - Other:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	<u>[Signature]</u>

[illegible]

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

505 393 2476
#54