

December 16, 2014

Mr. Mike Bratcher NMOCD District 2

AMARILLO 921 North Bivins Amarillo. Texas 79107 Phone 806.467.0607 Fax 806.467.0622 811 S. 1st Street Artesia, NM 88210

Subject:

Remediation and Closure Report

Devon Energy

Strawberry 7 Federal No. 2

API#: 30-015-32375 2RP-2319

ARTESIA 408 West Texas Ave. Artesia, New Mexico 88210 Phone 575.746.8768 Fax 575.746.8905

Dear Mr. Bratcher:

HOBBS 318 East Taylor Street Hobbs, New Mexico 88240 Phone 575.393.4261 Devon Energy had contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment, completed remediation activities and closure request are submitted herein.

Incident Date

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

Fax 575,393,4658

May 8, 2014

Background Information

OKLAHOMA CITY 7700 North Hudson Avenue Suite IO Oklahoma City, Oklahoma 73II6 Phone 405.486.7030 Fax 806.467.0622 The Strawberry 7 Federal No. 2 is located approximately thirty-eight (38) miles southeast of Artesia, New Mexico. The legal location for the site is Section 7, Township 19 South and Range 31 East in Eddy County, New Mexico. More specifically the latitude and longitude for the location are 32.678618 North and 103.9058936 West. A site plan is presented in Appendix I.

SAN ANTONIO 13111 Lookout Way San Antonio, Texas 78233 Phone 210.265.8025 Fax 210.568.2191 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 Potter-Simona complex with 5 to 25 percent slopes. The local surface and shallow geology, Quaternary Age sedimentary deposits, is comprised of loamy alluvium and eolian sands which include silty soils under lain by hard caliches. Drainage courses in this area are normally dry. According to the New Mexico State Engineer web site, the nearest ground water data is in S19-T19S-R31E. The ground water in Section 19 is reported to be a depth of 180' below ground surface (bgs). See Appendix II for the referenced groundwater data.

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

ENVIRONMENTAL CONSULTING

ENGINEERING

DRILLING

CONSTRUCTION

SPILL MANAGEMENT

GENERAL CONTRACTING

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

Page 1 of 3

Toll Free: 866.742.0742 www.talonlpe.com

Incident Description

On May 8, 2014 the man way plate on VRU tower leaked causing a release of 5 barrels of oil. The spill originated on the southeast side of the facility inside the metal containment. The dike had a hole in it allowing approximately 80% of the spilled fluid to escape containment. A vac truck was immediately called to the location and recovered 4.5 barrels of fluid.

Remedial Actions Taken

Pursuant to the approved work plan by the NMOCD and the BLM with stipulations (see Appendix II) the impacted areas around the heater treater and under the steel flow lines were hand-excavated to the best extent reasonable, feasible and as safely as possible to a depth of 3-feet. The area was treated with high nitrogen fertilizer and Mircoblaze, both are bioremediation agents.

The impacted area within the flow path in the pasture was excavated to a depth of 2-feet deep. On November 17, 2014 confirmation samples were collect from the sidewalls and bottom of the excavation. The results are presented in Table 1. The contaminated soil was transported to Lea Land, LLC an approved disposal facility.

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 TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, and volatile organics (BTEX) using EPA Method 8021B.

On December 1, 2014 Mike Bratcher with the NMOCD District II Artesia office granted permission to backfill the open excavation. The excavated area inside the berm was backfilled with new/clean caliche from Lea Land and new top soil was used in the pasture for backfill. The area inside the tank battery was re-contoured to match the surrounding location and the small area of the pasture was seeded using BLM seed mixture #3 and #4. The caliche and topsoil were obtained from Lea Land, LLC. See attached statement regarding Lea Land backfill in Appendix III.

Laboratory Results

See Appendix IV for complete report of laboratory results.

y M. Wilson

November 21, 2014

Table 1

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-4	2'	< 0.300		11.2	205
	3'	< 0.300		<10	59
	W sidewall	< 0.300		<10	<10
	E sidewall	< 0.300		<10	17.4
S-5	2'	10.6		286	2190
	3'	< 0.300		<10	133
	W sidewall	< 0.300	==	<10	<10
	E sidewall	< 0.300		<10	<10

⁻⁻ 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.

Closure

On behalf of Devon Energy, we respectfully request that no further actions be required and that closure with respect to these releases be granted. A Final C-141 is also attached in Appendix V.

Respectfully submitted,

TALON/LPE

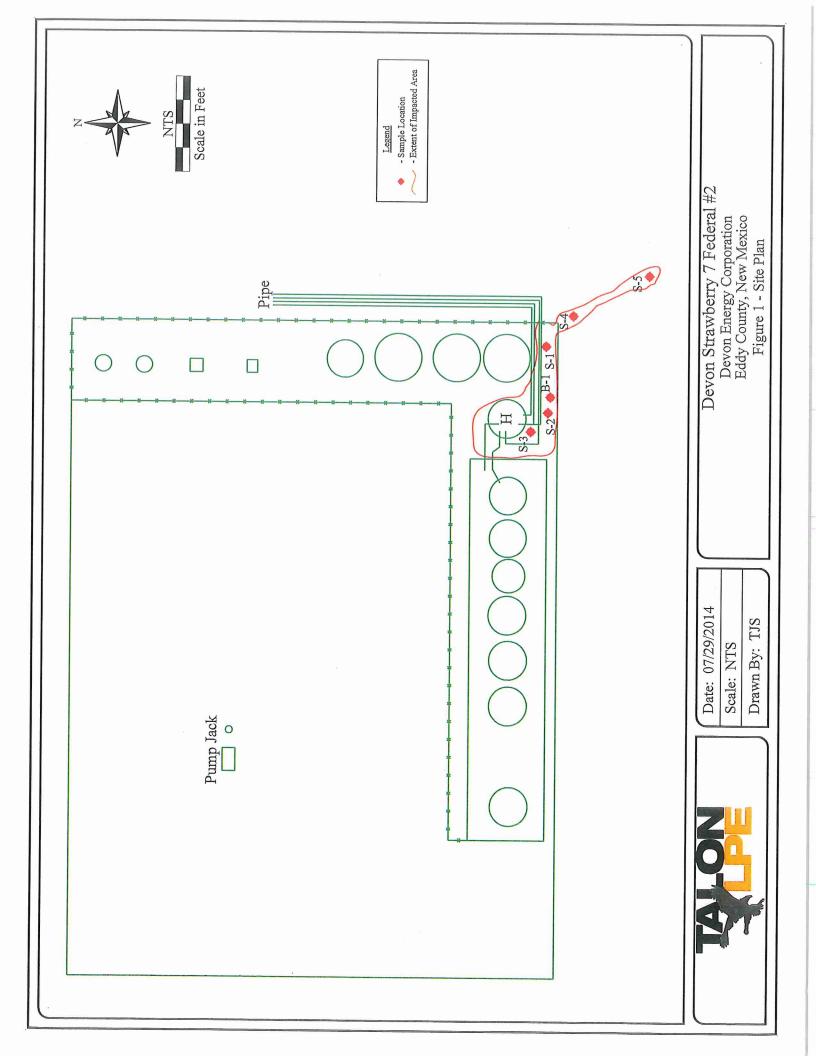
Kimberly M. Wilson

Project Manager

David J. Adkins

District Manager

APPENDIX I SITE MAP



APPENDIX II GROUNDWATER DATA REGULATOR'S STIPULATIONS



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

(NAD83 UTM in meters)

(In feet)

water right me.j	cioseu)	(quarters	aic	ornanc.	si to lait	Jest) (14)	ADOS O HVI III III	eleis)	(iii ieet)	
	POD									- Following	
	Sub-	QQ	2						Depth	Depth	Water
POD Number	Code basin Count	y 64 16	4 Sec	Tws	Rng	X	Υ	Distance	Well	Water	Column
CP 00873	ED	1	1 19	198	31E	601772	3613147* 🌑	3493	340	180	160
CP 00829	LE	2	4 16	3 19S	31E	606165	3614009*	4164	120		

Average Depth to Water:

180 feet

Minimum Depth:

180 feet

Maximum Depth:

180 feet

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 602814

Northing (Y): 3616481

Radius: 5000

Kimberly M. Wilson

From:

Robertson, Jeffery [jlrobertson@blm.gov]

Sent:

Tuesday, August 19, 2014 7:59 AM

To:

Kimberly M. Wilson

Cc:

jamos@blm.gov; Zuniga, Rudy; David Adkins

Subject:

Re: FW: Strawberry 7 Fed #2

This plan is approved as written with these conditions of approval. The additional samples at S-4 and S-5 will determine what work will be required from Devon to bring this location into compliance. This plan still needs to be approved by OCD. BLM approval of this proposal does not relieve the operator of liability should their operations have failed to adequately investigate and re mediate contamination that may pose a threat to groundwater, surface water, human health, or the environment, or if the location fails to reclaim properly. In such an event that location does not re vegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws/regulations.

Thanks

Jeffery L. Robertson

BLM-CFO

Natural Resource Specialist Office: 575-234-2230 Cell: 575-361-3568 ilrobertson@blm.gov

On Mon, Aug 18, 2014 at 2:24 PM, Kimberly M. Wilson < kwilson@talonlpe.com > wrote:

Gentlemen,

Please find attached the work plan for the referenced release. The release was with the berm of the battery but drained off location into the pasture.

Thank you.

Kimberly M. Wilson

Project Manager

Talon/LPE

408 West Texas Avenue

Artesia, New Mexico 88210

Kimberly M. Wilson

From:

Patterson, Heather, EMNRD [Heather.Patterson@state.nm.us]

Sent:

Tuesday, July 29, 2014 2:10 PM

To:

Kimberly M. Wilson

Cc:

Bratcher, Mike, EMNRD; David Adkins

Subject:

Strawberry 7 Fed #2

RE: Devon * Strawberry 7 Fed #2 * 30-015-32375 * 2RP-2319

Kim,

Your proposal for remediation of the above referenced site is approved as written.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Heather Patterson Environmental Specialist NMOCD District II (575)748-1283 ext.101

This email was processed through Xeams to filter junk messages. If you feel this message has been tagged incorrectly, you can change its category by clicking the link below. Click here to mark email as junk.

OR

here to mark email as good.

APPENDIX III LEA LAND BACKFILL MATERIAL

LEA LAND, LLC

Purchase of Backfill Material

Lea Land's backfill material (caliche or top soil) is generated by excavation of the material from within the 640 acres owned by Lea Land, LLC. This material is native soil and, therefore, has never been treated. Backfill material is excavated as needed.

Saralyn Hall

Marketing Manager

Donaly Leel

APPENDIX IV LABORATORY RESULTS



November 21, 2014

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: STRAWBERRY 7 FED. NO. 2

Enclosed are the results of analyses for samples received by the laboratory on 11/18/14 11:45.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Reported: 11/21/2014 Project Name: STRAWBER

STRAWBERRY 7 FED. NO. 2

Project Number:

Received:

700794.108.01

11/18/2014

Project Location: SEC.7-T19S-R31E

Sampling Date:

11/17/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-4 2' (H403545-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2014	ND	1.79	89.7	2.00	6.10	
Toluene*	<0.050	0.050	11/20/2014	ND	1.73	86.7	2.00	6.03	
Ethylbenzene*	<0.050	0.050	11/20/2014	ND	1.71	85.6	2.00	5.86	
Total Xylenes*	<0.150	0.150	11/20/2014	ND	5.14	85.7	6.00	6.23	
Total BTEX	<0.300	0.300	11/20/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIC	101 %	% 61-154	1						
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	11.2	10.0	11/19/2014	ND	199	99.5	200	0.490	
DRO >C10-C28	205	10.0	11/19/2014	ND	205	103	200	0.499	
Surrogate: 1-Chlorooctane	117 %	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	139 9	% 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

11/18/2014

Sampling Date:

11/17/2014

Reported:

11/21/2014

Sampling Type:

Soil

Project Name:

STRAWBERRY 7 FED. NO. 2

Sampling Condition:

Cool & Intact

Project Number:

700794.108.01

Sample Received By:

Jodi Henson

Project Location:

SEC.7-T19S-R31E

Sample ID: S-4 3' (H403545-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2014	ND	1.79	89.7	2.00	6.10	
Toluene*	<0.050	0.050	11/20/2014	ND	1.73	86.7	2.00	6.03	
Ethylbenzene*	<0.050	0.050	11/20/2014	ND	1.71	85.6	2.00	5.86	
Total Xylenes*	<0.150	0.150	11/20/2014	ND	5.14	85.7	6.00	6.23	
Total BTEX	<0.300	0.300	11/20/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 61-154							
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/19/2014	ND	199	99.5	200	0.490	
DRO >C10-C28	59.0	10.0	11/19/2014	ND	205	103	200	0.499	
Surrogate: 1-Chlorooctane	117 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	129 9	% 52.1-17	6						

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TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

11/18/2014

Reported:

11/21/2014

Project Name:

STRAWBERRY 7 FED. NO. 2

Project Number:

700794.108.01

Project Location:

SEC.7-T19S-R31E

Sampling Date:

Date: 11/17/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-4 W SIDEWALL (H403545-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2014	ND	1.79	89.7	2.00	6.10	
Toluene*	<0.050	0.050	11/20/2014	ND	1.73	86.7	2.00	6.03	
Ethylbenzene*	<0.050	0.050	11/20/2014	ND	1.71	85.6	2.00	5.86	
Total Xylenes*	<0.150	0.150	11/20/2014	ND	5.14	85.7	6.00	6.23	
Total BTEX	<0.300	0.300	11/20/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 61-154							
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/19/2014	ND	199	99.5	200	0.490	
DRO >C10-C28	<10.0	10.0	11/19/2014	ND	205	103	200	0.499	
Surrogate: 1-Chlorooctane	121 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	134 9	% 52.1-17	6						

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Celey D. Keene



TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

11/18/2014

Reported:

11/21/2014

11/21/20

Project Name:

STRAWBERRY 7 FED. NO. 2

Project Number: Project Location:

700794.108.01

SEC.7-T19S-R31E

Sampling Date:

11/17/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-4 E SIDEWALL (H403545-04)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2014	ND	1.96	98.1	2.00	6.95	
Toluene*	<0.050	0.050	11/21/2014	ND	1.90	95.2	2.00	7.27	
Ethylbenzene*	<0.050	0.050	11/21/2014	ND	1.88	93.8	2.00	6.56	
Total Xylenes*	<0.150	0.150	11/21/2014	ND	5.65	94.2	6.00	6.68	
Total BTEX	<0.300	0.300	11/21/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.6	% 61-154							
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/19/2014	ND	199	99.5	200	0.490	
DRO >C10-C28	17.4	10.0	11/19/2014	ND	205	103	200	0.499	
Surrogate: 1-Chlorooctane	116	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane									

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Celey D. Keene



TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

11/18/2014

11/21/2014

Sampling Date:

11/17/2014

Reported:

11/21/2014

Sampling Type:

Soil

Project Name:

STRAWBERRY 7 FED. NO. 2

Sampling Condition:

Cool & Intact

Project Number:

700794.108.01

Sample Received By:

Jodi Henson

Project Location:

SEC.7-T19S-R31E

Sample ID: S-5 2' (H403545-05)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	11/21/2014	ND	1.96	98.1	2.00	6.95	
Toluene*	0.109	0.100	11/21/2014	ND	1.90	95.2	2.00	7.27	
Ethylbenzene*	1.97	0.100	11/21/2014	ND	1.88	93.8	2.00	6.56	
Total Xylenes*	8.47	0.300	11/21/2014	ND	5.65	94.2	6.00	6.68	
Total BTEX	10.6	0.600	11/21/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	125 9	% 61-154							
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	286	10.0	11/19/2014	ND	199	99.5	200	0.490	
DRO >C10-C28	2190	10.0	11/19/2014	ND	205	103	200	0.499	
Surrogate: 1-Chlorooctane	153 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	152 9	% 52.1-17	6						

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Celey D. Keene



TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

11/18/2014

Sampling Date:

11/17/2014

Reported:

11/21/2014

Sampling Type:

Soil

Project Name:

STRAWBERRY 7 FED. NO. 2

Sampling Condition:

Cool & Intact

Project Number:

700794.108.01

Sample Received By:

Jodi Henson

Project Location:

SEC.7-T19S-R31E

Sample ID: S-5 3' (H403545-06)

BTEX 8021B	mg,	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2014	ND	1.96	98.1	2.00	6.95	
Toluene*	<0.050	0.050	11/21/2014	ND	1.90	95.2	2.00	7.27	
Ethylbenzene*	<0.050	0.050	11/21/2014	ND	1.88	93.8	2.00	6.56	
Total Xylenes*	<0.150	0.150	11/21/2014	ND	5.65	94.2	6.00	6.68	
Total BTEX	<0.300	0.300	11/21/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.5	% 61-154							
TPH 8015M	mg	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/19/2014	ND	199	99.5	200	0.490	
DRO >C10-C28	133	10.0	11/19/2014	ND	205	103	200	0.499	
Surrogate: 1-Chlorooctane	123	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	141	% 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Uability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories,

Celey D. Keens



TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

11/18/2014

Sampling Date:

11/17/2014

Reported:

11/21/2014

Sampling Type:

Soil

Project Name:

STRAWBERRY 7 FED. NO. 2

Sampling Condition:

Cool & Intact

Project Number:

700794.108.01

Sample Received By:

Jodi Henson

Project Location:

SEC.7-T19S-R31E

Sample ID: S-5 W SIDEWALL (H403545-07)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2014	ND	1.96	98.1	2.00	6.95	
Toluene*	<0.050	0.050	11/21/2014	ND	1.90	95.2	2.00	7.27	
Ethylbenzene*	<0.050	0.050	11/21/2014	ND	1.88	93.8	2.00	6.56	
Total Xylenes*	<0.150	0.150	11/21/2014	ND	5.65	94.2	6.00	6.68	
Total BTEX	<0.300	0.300	11/21/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.0	% 61-154	ý	3					
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/19/2014	ND	199	99.5	200	0.490	
DRO >C10-C28	<10.0	10.0	11/19/2014	ND	205	103	200	0.499	
Surrogate: 1-Chlorooctane	114	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	126	% 52.1-17							

Cardinal Laboratories

*=Accredited Analyte

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Celeg & treene



TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

11/18/2014

Sampling Date:

11/17/2014

Reported:

11/21/2014

Sampling Type:

Project Name:

STRAWBERRY 7 FED. NO. 2

Soil

Sampling Condition:

Cool & Intact

Project Number:

700794.108.01

Sample Received By:

Jodi Henson

Project Location:

SEC.7-T19S-R31E

Sample ID: S-5 E SIDEWALL (H403545-08)

BTEX 8021B	mg,	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2014	ND	1.96	98.1	2.00	6.95	
Toluene*	<0.050	0.050	11/21/2014	ND	1.90	95.2	2.00	7.27	
Ethylbenzene*	<0.050	0.050	11/21/2014	ND	1.88	93.8	2.00	6.56	
Total Xylenes*	<0.150	0.150	11/21/2014	ND	5.65	94.2	6.00	6.68	
Total BTEX	<0.300	0.300	11/21/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.6	% 61-154	1						
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/19/2014	ND	199	99.5	200	0.490	
DRO >C10-C28	<10.0	10.0	11/19/2014	ND	205	103	200	0.499	
Surrogate: 1-Chlorooctane	118 5	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	133	% 52.1-17	6						

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Celley D. Keens-



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.

Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

ND

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

*** Insufficient time to reach temperature.

- Chloride by SM4500CI-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

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Celey & Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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Company Name:	Talon/LPE		3)[E E E][C		ANALISIS NEGOCIO	
Project Manager:	K. Wilson		P.O. #:			
Address: 408 W.	N. Texas A		Company: Talon			
city: Artesia		State: NM Zip: 88210	Attn:			
Phone #: 575-746-8768	.746-8768 Fax #: 575-746-8905	46-8905	Address:			
Project #: 7007	0794. 108.0 Project Owner:	Deton	City:			
- 1	Traw	なる	State: Zip:			
Project Location:	8-7-1	-	Phone #:			
Sampler Name:	tim !		Fax#:			
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	NG		
Lab I.D.	Sample I.D.		HER: ID/BASE: E/COOL 'HER:	TPH BTEX		
1403545		# CO GRO WA SOI OIL	OTI ACI	TIME		1
	U-17 &	7	1/2//	10:020 / /		
196	24 3 11/2/11	/	1 11/19/14	14:07 / /		
Z(1000 Mills 3 17-3	2	1 11/2/19	19:10 /		
۲.	12 2	7	1 /1/1/14	19:30 /		
6	5-5 31	6	1 11/11/14	19:35		
7	9-5 W Sidewall	6	1/1/1/1/	1 04:64		
8	S-5 Esidewall	6	1 1/1/14	19:45		
				district the client for the		
PLEASE NOTE: Liability a analyses. All claims includ service. In no event shall (PLEASE (NOTE: Lability and Damages, Cardinals liability and elective scalulate sensely for any dalim arising weather based in contract or the state of use science in a state of the state	any claim arising whether based in contra co	ict of fort, shall be immed to the amount per not received by Cardinal within 30 days aft r, loss of use, or loss of profits incurred by	ler completion of the applicable client. Its subsidiaries, easons or otherwise.		
affiliates or successors aris	offliates or successors grising out of or related to the performance of services hereunder by	Received By:	performance of services hereunder by Cardinal regardless of whether such quality award upon any or the sector service Repended By: Phone Res	rt	ON C	
Kelinquisney by	Moor	a.	dendon			
Keinquisned by	Time:	, D				

5.20

Sample Condition
Cool Intact
Yes IF Yes
No No

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

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

APPENDIX V FINAL C-141