

APPROVED

By Olivia Yu at 7:11 am, Mar 08, 2017

NMOCD approves the delineation workplan for 1RP-4535 with these conditions:

- 1) Excavation to 2 ft. may proceed at S-1 and S-3. However, further vertical delineation is still necessary at S-1 and S-3 to 1000 mg/kg chloride levels as specified on Page 1 of the report.
- 2) Excavation to 1 ft. may proceed at S-2.

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Soil Assessment and Remediation Work Plan

Watkins 32 State #1* 30-025-31735 * 1RP-4535

Talon Project No. 700794.211.01

Prepared For:

Devon Energy Production
6488 Seven Rivers Hwy
Artesia, New Mexico 88210

Prepared By:

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

February 20, 2017

Ms. Olivia Yu
NMOCD District I
1625 N. French Dr.
Hobbs, NM 88240

Subject: **Soil Assessment and Remediation Work Plan**
Watkins 32 State #1
30-025-31735 * 1RP-4535

Dear Ms. Yu,

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.

Site Information

The Watkins 32 State #1 is located approximately forty-five (45) miles southeast of Artesia, New Mexico. The legal location for this release is Unit Letter F, Section 15, Township 18 South and Range 32 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.705841 North and -103.7917099 West. A site plan is presented in [Appendix I](#).

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

Ground Water and Site Ranking

According to the New Mexico State Engineer web site there is no published groundwater information within 5,000 meters of the release area. However, according to the Chevron Texaco Groundwater Trend Map, the groundwater in this area is greater than 425-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater data.

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

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

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 5,000 mg/kg for TPH and recommended guidelines for total chlorides is 1,000 mg/kg.

Incident Description and Initial Remedial Actions

On December 16, 2016 the back pressure valve on the gas sales line became plugged causing the gas to vent into the produced water tank resulting in 50 barrels of produced water to be released into the unlined dirt containment surrounding the tank battery. A vac truck was immediately called to the location and 40 barrels of fluid were recovered. The facility was shut-in and the wells associated with the battery were also shut-in until repairs were completed. See initial C-141 in [Appendix II](#).

On February 6, 2017 a site assessment and soil sampling activities for the construction of a work plan were performed. Initial soil samples were collected utilizing a hand auger to a depth of 4-feet deep. The results of our soil sampling activities are summarized in the table below.

Laboratory Results

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

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0'	30.2	1180	834	9950
	1'	<0.300	336	<10	19.4
	2'	<0.300	1420	<10	<10
	3'	<0.300	1380	<10	<10
	4'	<0.300	2000	<10	16.2
S-2	0'	6.02	5060	<50	2040
	1'	0.336	208	<10	187
	2'	<0.300	192	<50	<50
	3'	0.784	496	<50	222
	4'	1.14	560	<50	443
S-3	0'	137	1330	1870	19300
	1'	0.685	4640	<10	61.6
	2'	<0.300	800	<10	28.1
	3'	<0.300	1360	<10	<10

Proposed Remedial actions

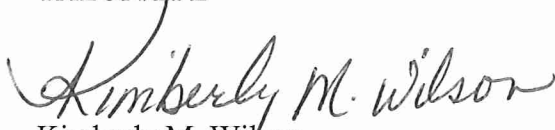
- To avoid compromising the structural integrity of the tanks within the impacted battery, the soil in the vicinity of S-1 and S-3 will be excavated to a depth of 2-feet and the impacted area at S-2 will be excavated to 1-foot or to the best extent reasonable, feasible and as safely as possible. Bottom excavation samples will be obtained and sent to the laboratory for analysis.


- On behalf of Devon Energy, we request that the remainder of the impacted soil, if any, be remediated upon the closure of the facility.
- The excavated soil will be transported to a NMOCD approved solid waste disposal facility.
- The excavated area will be backfilled with new caliche, machine compacted and contoured to match the surrounding location. The berms will be repaired.
- A final closure report documenting the remedial actions and a final C-141 will be provided to the NMOCD District I Hobbs Office.

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

Respectfully submitted,

TALON/LPE


Kimberly M. Wilson
Project Manager


David J. Adkins
District Manager

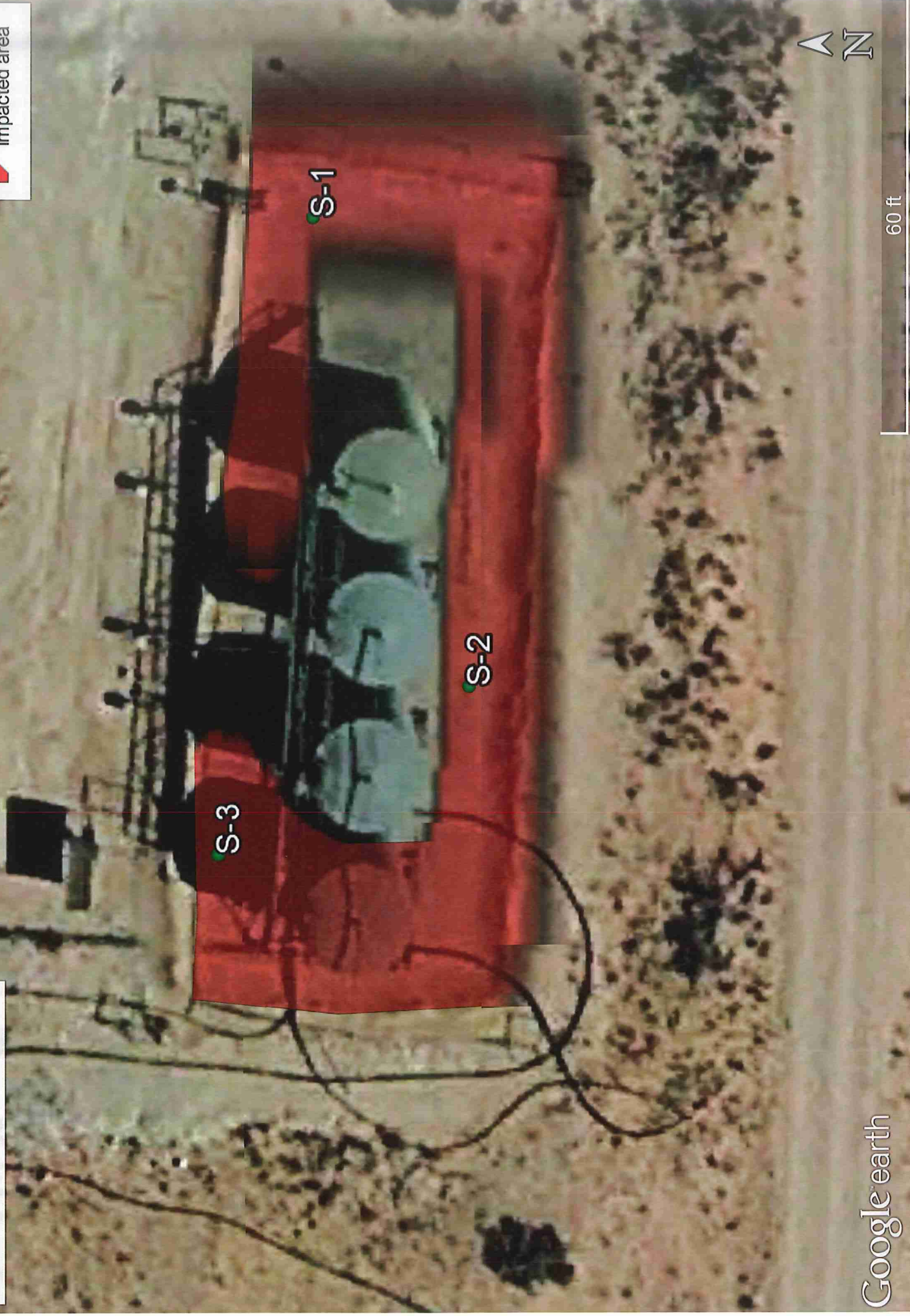
Attachments:

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

Watkins 32 State #1

Legend

- Sample points
- Impacted area



Watkins 32 State #1
50 BLS PW - 12-16-2016

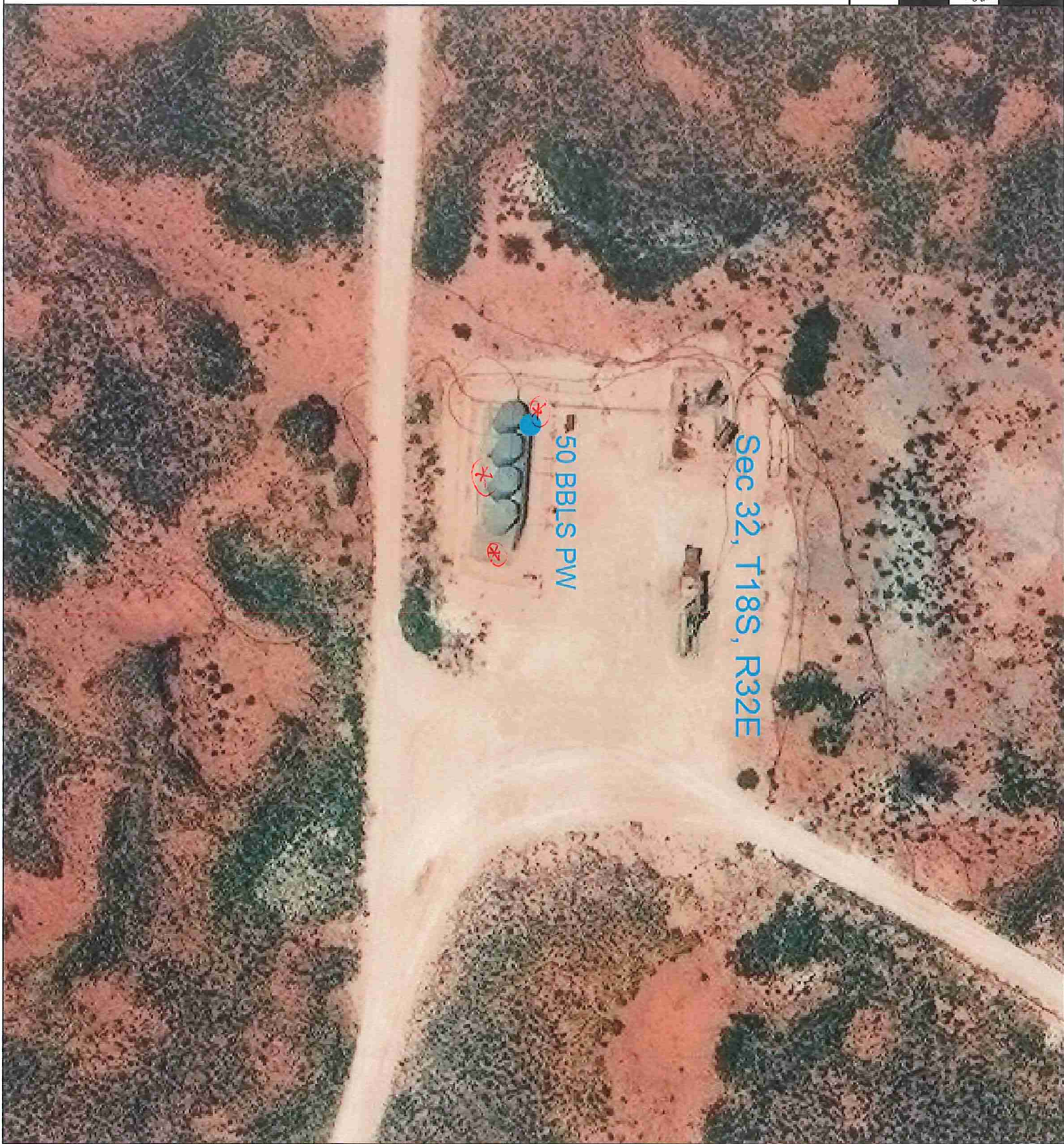


This map is for illustrative purposes only and is not intended to be used as evidence in any legal proceeding. Kindly respect this map.

WGS_1984_Web_Mercator_Auxiliary_Sphere

Prepared by: Sarah

Map is current as of 12-16-2016





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 613042

Northing (Y): 3619619

Radius: 5000

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.

1/24/17 2:48 PM

WATER COLUMN/ AVERAGE
DEPTH TO WATER

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

NM OIL CONSERVATION
ARTESIA DISTRICT
DEC 22 2016
Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.
RECEIVED

Form C-141
Revised August 8, 2011

Release Notification and Corrective Action

NAB1036456282 OPERATOR ☒ Initial Report ☐ Final Report

Name of Company *Devon Energy Production Company* *6137* Contact *Danny Velo, Production Foreman*

Address *6488 Seven Rivers Hwy Artesia, NM 88210* Telephone No. *575-703-3360*

Facility Name *Watkins 32 State #1* Facility Type *Oil*

Surface Owner State Mineral Owner State API No *30-025-31735*

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	32	18S	32E	1980	North	1650	West	Lea

Latitude: 32.7058411 Longitude: -103.7917099

NATURE OF RELEASE

Type of Release <i>Produced Water</i>	Volume of Release <i>50 BBLS PW</i>	Volume Recovered <i>40 BBLS PW</i>
Source of Release <i>Produced water tank</i>	Date and Hour of Occurrence <i>12/16/2016 @ 11:45pm</i>	Date and Hour of Discovery <i>12/16/2016 @ 6:50am</i>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <i>OCD-Kristen Lynch BLM-Jim Amos</i>	
By Whom? <i>Hub Perry, Night Production Foreman</i>	Date and Hour <i>OCD- 12/17/2016 @ 1:01am BLM- 12/17/2016 @ 12:59am</i>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse <i>N/A</i>	
If a Watercourse was Impacted, Describe Fully.* <i>N/A</i>		

Describe Cause of Problem and Remedial Action Taken.*

Due to frigid weather the Back pressure valve on the gas sales line became plugged causing the gas to vent into the Produced water tank resulting in 50 BBLS produced water to be released into dirt containment. All wells on this lease were shut in to prevent further release.

Describe Area Affected and Cleanup Action Taken.*

Approximately 50 BBLS produced water was released from the Produced water tank due to the Back pressure valve on the gas sales line being plugged. All the 50 BBLS produced water went into dirt containment and 50 BBLS produced water remained inside the dirt containment. Vacuum truck recovered approximately 40 BBLS of the released produced water. Environmental agency will be contacted for remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC 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, NMOC 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>Sarah Gallegos-Troublefield</i>	OIL CONSERVATION DIVISION	
Printed Name: <i>Sarah Gallegos-Troublefield</i>	Approved by Environmental Specialist <i>[Signature]</i>	
Title: <i>Field Admin Support</i>	Approval Date: <i>12/29/16</i>	Expiration Date: <i>N/A</i>
E-mail Address: <i>Sarah.Gallegos-Troublefield@dm.com</i>	Conditions of Approval: <i>see attached</i>	Attached <input checked="" type="checkbox"/>
Date: <i>12/21/2016</i> Phone: <i>575.748.1864</i>		

* Attach Additional Sheets If Necessary

IRP-4535

February 14, 2017

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WATKINS 32 STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 02/08/17 11:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/08/2017	Sampling Date:	02/06/2017
Reported:	02/14/2017	Sampling Type:	Soil
Project Name:	WATKINS 32 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	700794.211.01	Sample Received By:	Angela Cabrera
Project Location:	LEA COUNTY, NM		

Sample ID: S-1 0' (H700326-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	02/10/2017	ND	1.86	92.8	2.00	4.08	
Toluene*	1.24	0.500	02/10/2017	ND	1.82	90.8	2.00	4.10	
Ethylbenzene*	3.77	0.500	02/10/2017	ND	1.81	90.7	2.00	4.85	
Total Xylenes*	25.2	1.50	02/10/2017	ND	5.16	86.1	6.00	4.21	
Total BTEX	30.2	3.00	02/10/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	02/14/2017	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	834	50.0	02/09/2017	ND	178	88.9	200	3.64		
DRO >C10-C28	9950	50.0	02/09/2017	ND	191	95.6	200	3.47		

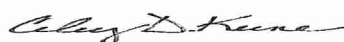
Surrogate: 1-Chlorooctane 208 % 35-147

Surrogate: 1-Chlorooctadecane 180 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received:	02/08/2017	Sampling Date:	02/06/2017
Reported:	02/14/2017	Sampling Type:	Soil
Project Name:	WATKINS 32 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	700794.211.01	Sample Received By:	Angela Cabrera
Project Location:	LEA COUNTY, NM		

Sample ID: S-1 1' (H700326-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2017	ND	1.86	92.8	2.00	4.08	
Toluene*	<0.050	0.050	02/10/2017	ND	1.82	90.8	2.00	4.10	
Ethylbenzene*	<0.050	0.050	02/10/2017	ND	1.81	90.7	2.00	4.85	
Total Xylenes*	<0.150	0.150	02/10/2017	ND	5.16	86.1	6.00	4.21	
Total BTEX	<0.300	0.300	02/10/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	02/14/2017	ND	432	108	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	02/09/2017	ND	178	88.9	200	3.64	
DRO >C10-C28	19.4	10.0	02/09/2017	ND	191	95.6	200	3.47	


Surrogate: 1-Chlorooctane 83.6 % 35-147

Surrogate: 1-Chlorooctadecane 93.3 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received:	02/08/2017	Sampling Date:	02/06/2017
Reported:	02/14/2017	Sampling Type:	Soil
Project Name:	WATKINS 32 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	700794.211.01	Sample Received By:	Angela Cabrera
Project Location:	LEA COUNTY, NM		

Sample ID: S-1 2' (H700326-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2017	ND	1.86	92.8	2.00	4.08	
Toluene*	<0.050	0.050	02/10/2017	ND	1.82	90.8	2.00	4.10	
Ethylbenzene*	<0.050	0.050	02/10/2017	ND	1.81	90.7	2.00	4.85	
Total Xylenes*	<0.150	0.150	02/10/2017	ND	5.16	86.1	6.00	4.21	
Total BTEX	<0.300	0.300	02/10/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 98.7 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1420	16.0	02/14/2017	ND	432	108	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	02/09/2017	ND	178	88.9	200	3.64	
DRO >C10-C28	<10.0	10.0	02/09/2017	ND	191	95.6	200	3.47	

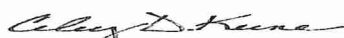
Surrogate: 1-Chlorooctane 78.1 % 35-147

Surrogate: 1-Chlorooctadecane 86.7 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received:	02/08/2017	Sampling Date:	02/06/2017
Reported:	02/14/2017	Sampling Type:	Soil
Project Name:	WATKINS 32 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	700794.211.01	Sample Received By:	Angela Cabrera
Project Location:	LEA COUNTY, NM		

Sample ID: S-1 3' (H700326-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2017	ND	1.86	92.8	2.00	4.08	
Toluene*	<0.050	0.050	02/10/2017	ND	1.82	90.8	2.00	4.10	
Ethylbenzene*	<0.050	0.050	02/10/2017	ND	1.81	90.7	2.00	4.85	
Total Xylenes*	<0.150	0.150	02/10/2017	ND	5.16	86.1	6.00	4.21	
Total BTEX	<0.300	0.300	02/10/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 97.4 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	02/14/2017	ND	432	108	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	02/09/2017	ND	178	88.9	200	3.64	
DRO >C10-C28	<10.0	10.0	02/09/2017	ND	191	95.6	200	3.47	

Surrogate: 1-Chlorooctane 76.9 % 35-147

Surrogate: 1-Chlorooctadecane 86.2 % 28-171

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received:	02/08/2017	Sampling Date:	02/06/2017
Reported:	02/14/2017	Sampling Type:	Soil
Project Name:	WATKINS 32 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	700794.211.01	Sample Received By:	Angela Cabrera
Project Location:	LEA COUNTY, NM		

Sample ID: S-1 4' (H700326-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2017	ND	1.86	92.8	2.00	4.08	
Toluene*	<0.050	0.050	02/10/2017	ND	1.82	90.8	2.00	4.10	
Ethylbenzene*	<0.050	0.050	02/10/2017	ND	1.81	90.7	2.00	4.85	
Total Xylenes*	<0.150	0.150	02/10/2017	ND	5.16	86.1	6.00	4.21	
Total BTEX	<0.300	0.300	02/10/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 96.7 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	02/14/2017	ND	432	108	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	02/09/2017	ND	178	88.9	200	3.64	
DRO >C10-C28	16.2	10.0	02/09/2017	ND	191	95.6	200	3.47	

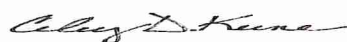
Surrogate: 1-Chlorooctane 82.5 % 35-147

Surrogate: 1-Chlorooctadecane 90.5 % 28-171

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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: 02/08/2017
Reported: 02/14/2017
Project Name: WATKINS 32 STATE #1
Project Number: 700794.211.01
Project Location: LEA COUNTY, NM

Sampling Date: 02/06/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Angela Cabrera

Sample ID: S-2 0' (H700326-06)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.052	0.050	02/10/2017	ND	1.86	92.8	2.00	4.08	
Toluene*	1.09	0.050	02/10/2017	ND	1.82	90.8	2.00	4.10	
Ethylbenzene*	1.22	0.050	02/10/2017	ND	1.81	90.7	2.00	4.85	
Total Xylenes*	3.66	0.150	02/10/2017	ND	5.16	86.1	6.00	4.21	
Total BTX	6.02	0.300	02/10/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 98.0 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5060	16.0	02/14/2017	ND	416	104	400	0.00	QM-07

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	02/09/2017	ND	178	88.9	200	3.64	
DRO >C10-C28	2040	50.0	02/09/2017	ND	191	95.6	200	3.47	


Surrogate: 1-Chlorooctane 90.7 % 35-147

Surrogate: 1-Chlorooctadecane 147 % 28-171

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Analytical Results For:

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

Received:	02/08/2017	Sampling Date:	02/06/2017
Reported:	02/14/2017	Sampling Type:	Soil
Project Name:	WATKINS 32 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	700794.211.01	Sample Received By:	Angela Cabrera
Project Location:	LEA COUNTY, NM		

Sample ID: S-2 1' (H700326-07)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2017	ND	1.86	92.8	2.00	4.08	
Toluene*	0.060	0.050	02/10/2017	ND	1.82	90.8	2.00	4.10	
Ethylbenzene*	0.054	0.050	02/10/2017	ND	1.81	90.7	2.00	4.85	
Total Xylenes*	0.222	0.150	02/10/2017	ND	5.16	86.1	6.00	4.21	
Total BTX	0.336	0.300	02/10/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/14/2017	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	02/09/2017	ND	178	88.9	200	3.64	
DRO >C10-C28	187	10.0	02/09/2017	ND	191	95.6	200	3.47	

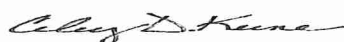
Surrogate: 1-Chlorooctane 87.2 % 35-147

Surrogate: 1-Chlorooctadecane 98.9 % 28-171

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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:	02/08/2017	Sampling Date:	02/06/2017
Reported:	02/14/2017	Sampling Type:	Soil
Project Name:	WATKINS 32 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	700794.211.01	Sample Received By:	Angela Cabrera
Project Location:	LEA COUNTY, NM		

Sample ID: S-2 2' (H700326-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2017	ND	1.68	83.8	2.00	0.0733	
Toluene*	<0.050	0.050	02/10/2017	ND	1.65	82.3	2.00	0.0907	
Ethylbenzene*	<0.050	0.050	02/10/2017	ND	1.65	82.6	2.00	0.0214	
Total Xylenes*	0.188	0.150	02/10/2017	ND	4.69	78.1	6.00	0.153	
Total BTX	<0.300	0.300	02/10/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 88.4 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/14/2017	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	02/09/2017	ND	178	88.9	200	3.64	
DRO >C10-C28	<50.0	50.0	02/09/2017	ND	191	95.6	200	3.47	

Surrogate: 1-Chlorooctane 79.2 % 35-147

Surrogate: 1-Chlorooctadecane 97.6 % 28-171

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Analytical Results For:

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

Received:	02/08/2017	Sampling Date:	02/06/2017
Reported:	02/14/2017	Sampling Type:	Soil
Project Name:	WATKINS 32 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	700794.211.01	Sample Received By:	Angela Cabrera
Project Location:	LEA COUNTY, NM		

Sample ID: S-2 3' (H700326-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2017	ND	1.68	83.8	2.00	0.0733	
Toluene*	0.105	0.050	02/10/2017	ND	1.65	82.3	2.00	0.0907	
Ethylbenzene*	0.161	0.050	02/10/2017	ND	1.65	82.6	2.00	0.0214	
Total Xylenes*	0.518	0.150	02/10/2017	ND	4.69	78.1	6.00	0.153	
Total BTEX	0.784	0.300	02/10/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.2 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	02/14/2017	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	02/10/2017	ND	179	89.6	200	1.53	
DRO >C10-C28	222	50.0	02/10/2017	ND	187	93.7	200	1.91	

Surrogate: 1-Chlorooctane 81.4 % 35-147

Surrogate: 1-Chlorooctadecane 113 % 28-171

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Analytical Results For:

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

Received:	02/08/2017	Sampling Date:	02/06/2017
Reported:	02/14/2017	Sampling Type:	Soil
Project Name:	WATKINS 32 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	700794.211.01	Sample Received By:	Angela Cabrera
Project Location:	LEA COUNTY, NM		

Sample ID: S-2 4' (H700326-10)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2017	ND	1.68	83.8	2.00	0.0733	
Toluene*	0.140	0.050	02/10/2017	ND	1.65	82.3	2.00	0.0907	
Ethylbenzene*	0.189	0.050	02/10/2017	ND	1.65	82.6	2.00	0.0214	
Total Xylenes*	0.811	0.150	02/10/2017	ND	4.69	78.1	6.00	0.153	
Total BTX	1.14	0.300	02/10/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.8 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	02/14/2017	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	02/10/2017	ND	179	89.6	200	1.53	
DRO >C10-C28	443	50.0	02/10/2017	ND	187	93.7	200	1.91	

Surrogate: 1-Chlorooctane 82.4 % 35-147

Surrogate: 1-Chlorooctadecane 135 % 28-171

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Analytical Results For:

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

Received:	02/08/2017	Sampling Date:	02/06/2017
Reported:	02/14/2017	Sampling Type:	Soil
Project Name:	WATKINS 32 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	700794.211.01	Sample Received By:	Angela Cabrera
Project Location:	LEA COUNTY, NM		

Sample ID: S-3 0' (H700326-11)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.42	1.00	02/10/2017	ND	1.68	83.8	2.00	0.0733	
Toluene*	39.7	1.00	02/10/2017	ND	1.65	82.3	2.00	0.0907	
Ethylbenzene*	27.6	1.00	02/10/2017	ND	1.65	82.6	2.00	0.0214	
Total Xylenes*	66.7	3.00	02/10/2017	ND	4.69	78.1	6.00	0.153	
Total BTX	137	6.00	02/10/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	02/14/2017	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1870	50.0	02/10/2017	ND	179	89.6	200	1.53		
DRO >C10-C28	19300	50.0	02/10/2017	ND	187	93.7	200	1.91		

Surrogate: 1-Chlorooctane 165 % 35-147

Surrogate: 1-Chlorooctadecane 230 % 28-171

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Analytical Results For:

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

Received: 02/08/2017
Reported: 02/14/2017
Project Name: WATKINS 32 STATE #1
Project Number: 700794.211.01
Project Location: LEA COUNTY, NM

Sampling Date: 02/06/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Angela Cabrera

Sample ID: S-3 1' (H700326-12)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2017	ND	1.68	83.8	2.00	0.0733	
Toluene*	0.056	0.050	02/11/2017	ND	1.65	82.3	2.00	0.0907	
Ethylbenzene*	0.135	0.050	02/11/2017	ND	1.65	82.6	2.00	0.0214	
Total Xylenes*	0.494	0.150	02/11/2017	ND	4.69	78.1	6.00	0.153	
Total BTEX	0.685	0.300	02/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 90.4 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	02/14/2017	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	02/10/2017	ND	179	89.6	200	1.53	
DRO >C10-C28	61.6	10.0	02/10/2017	ND	187	93.7	200	1.91	

Surrogate: 1-Chlorooctane 86.9 % 35-147

Surrogate: 1-Chlorooctadecane 90.8 % 28-171

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Analytical Results For:

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

Received:	02/08/2017	Sampling Date:	02/06/2017
Reported:	02/14/2017	Sampling Type:	Soil
Project Name:	WATKINS 32 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	700794.211.01	Sample Received By:	Angela Cabrera
Project Location:	LEA COUNTY, NM		

Sample ID: S-3 2' (H700326-13)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/11/2017	ND	1.68	83.8	2.00	0.0733		
Toluene*	<0.050	0.050	02/11/2017	ND	1.65	82.3	2.00	0.0907		
Ethylbenzene*	<0.050	0.050	02/11/2017	ND	1.65	82.6	2.00	0.0214		
Total Xylenes*	<0.150	0.150	02/11/2017	ND	4.69	78.1	6.00	0.153		
Total BTEX	<0.300	0.300	02/11/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.5 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	02/14/2017	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	02/10/2017	ND	179	89.6	200	1.53	
DRO >C10-C28	28.1	10.0	02/10/2017	ND	187	93.7	200	1.91	

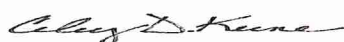
Surrogate: 1-Chlorooctane 91.1 % 35-147

Surrogate: 1-Chlorooctadecane 97.6 % 28-171

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Analytical Results For:

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

Received:	02/08/2017	Sampling Date:	02/06/2017
Reported:	02/14/2017	Sampling Type:	Soil
Project Name:	WATKINS 32 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	700794.211.01	Sample Received By:	Angela Cabrera
Project Location:	LEA COUNTY, NM		

Sample ID: S-3 3' (H700326-14)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2017	ND	1.68	83.8	2.00	0.0733	
Toluene*	<0.050	0.050	02/11/2017	ND	1.65	82.3	2.00	0.0907	
Ethylbenzene*	<0.050	0.050	02/11/2017	ND	1.65	82.6	2.00	0.0214	
Total Xylenes*	<0.150	0.150	02/11/2017	ND	4.69	78.1	6.00	0.153	
Total BTX	<0.300	0.300	02/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 84.2 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	02/14/2017	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	02/10/2017	ND	179	89.6	200	1.53	
DRO >C10-C28	<10.0	10.0	02/10/2017	ND	187	93.7	200	1.91	

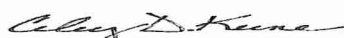
Surrogate: 1-Chlorooctane 79.0 % 35-147

Surrogate: 1-Chlorooctadecane 89.2 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

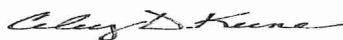
Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LPE		P.O. #:		ANALYSIS REQUEST	
Project Manager: K. Wilson		Company: Talon/LPE			
Address: 408 W. Texas Ave.		Attn:			
City: Artesia		State: NM Zip: 88210			
Phone #: 575-746-8768		Fax #: 575-746-8905			
Project #: 700794, 211.51		Project Owner: Benson			
Project Name: Watkins 32 State #1		City:			
Project Location: 684 County		State: Zip:			
Sampler Name: E. Delos		Phone #:			
Fax #:					
FOR LAB USE ONLY		PRESERV		SAMPLING	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS		
H100326	5-1	1'	1		
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	4	3'	1		
	5	4'	1		
	5-2	1'	1		
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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ANALYSIS REQUEST

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