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Remediation and Closure Report

Doc Holliday 32 State Com 1
API # 30-015-41145 * **2RP-4547**

Prepared For:

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

Prepared By:

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

May 15, 2018

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

Subject: **Soil Assessment and Remediation Work Plan**
Doc Holliday 32 State Com 1
API # 30-015-41145 * 2RP-4547

Dear Mr. Bratcher,

Devon Energy Corporation (Devon) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The incident description, soil sampling results, remediation activities and closure request are submitted herein.

Site Information

The Doc Holliday 32 State Com 1 is located approximately seventeen (17) miles south of Carlsbad, New Mexico. The legal location for this release is Unit Letter D, Section 32, Township 24 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.18022 North and -104.21954 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-Reagan loams with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to middle Pleistocene in age and is comprised of weathered gypsum and eolian deposits derived from sedimentary rock. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

The New Mexico State Engineer web site indicates that the nearest groundwater is 42' below ground surface (BGS). See [Appendix II](#) for the referenced groundwater data.

Therefore the ranking for this site is a **20** based on the following:

Depth to ground water	<50'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

Based upon the site ranking of **20**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene and 100 mg/kg for TPH. The NMOCD recommended guidelines for total chlorides is 600 mg/kg.

Incident Description and Initial Remedial Actions

On December 3, 2017 a local rancher contacted Devon personnel regarding suspicious activity that appeared to an illegal dumping event. Devon staff went to the location and confirmed that an illegal dumping event had occurred as there was evidence of released fluids, impacted soils and truck tracks observed on the location. A site plan is presented in [Appendix I](#) which illustrates the impacted area

On February 1, 2018, Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected from the pasture behind the battery utilizing a hand auger. The analytical results from the site assessment are summarized in the data table below.

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

Initial Site Assessment

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO	TPH (mg/kg) EXT	Total TPH
S-1	0	<0.300	128	<10.0	334	15.4	349.4
	1	-	80	-	-	-	-
Refusal	2	-	48	-	-	-	-
S-2	0	<0.300	80	<10.0	16.6	<10.0	16.6
	1	-	112	-	-	-	-
Refusal	1.5	-	48	-	-	-	-
S-3	0	<0.300	176	<10.0	10.3	<10.0	10.3
	1	-	80	-	-	-	-
	2	-	32	-	-	-	-
Refusal	3	-	48	-	-	-	-
S-4	0	<0.300	80	<10.0	11.6	<10.0	11.6
	1	-	80	-	-	-	-
Refusal	2	-	48	-	-	-	-
S-5	0	<0.300	48	<10.0	<10.0	<10.0	<10.0
	1	-	128	-	-	-	-
	2	-	48	-	-	-	-
	3	-	48	-	-	-	-
	4	-	80	-	-	-	-
S-6	0'	<0.300	64	<10.0	<10.0	<10.0	<10.0
Refusal	1	-	224	-	-	-	-

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO	TPH (mg/kg) EXT	Total TPH
S-7	0	<0.300	32	<10.0	<10.0	<10.0	<10.0
	1	-	48	-	-	-	-
	2	-	80	-	-	-	-
Refusal	3	-	480	-	-	-	-
S-8	0	<0.300	48	<10.0	<10.0	<10.0	<10.0
Refusal	1	-	32	-	-	-	-
S-9	0	<0.300	32	<10.0	<10.0	<10.0	<10.0
	1	-	528	-	-	-	-
Refusal	2	-	512	-	-	-	-

--Analyte Not Tested

Confirmation Soil Sampling

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO	TPH (mg/kg) EXT	Total TPH
S-1	0.5	-	-	<10.0	<10.0	<10.0	<10.0

--Analyte Not Tested

Remedial Actions Taken:

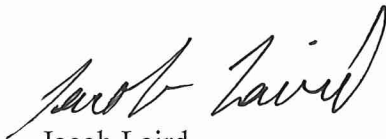
- The impacted soil in the vicinity of S-1 was excavated to a depth of 0.5-feet deep.
- All contaminated soil was transported to Lea Land, LLC, a NMOCD approved disposal facility.
- A confirmation soil sample was collected from the sample location to confirm that all of the TPH impacts at this location were below NMOCD RRAL's.
- A Final C-141 Form is attached hereto.

Closure

On behalf of Devon Energy, we respectfully request that no further actions be required at this site and that closure with regards to this incident be granted.

If we can provide additional information or be of further assistance, please contact our office at (575)-746-8768.

Respectfully submitted,
TALON/LPE



Jacob Laird
Environmental Scientist



David J. Adkins
District Manager

Attachments:

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

APPENDIX I

SITE PLAN

Doc Holliday 32 State Com 1

Devon Energy, Eddy County, NM

- Legend**
- Excavated Area
 - Sample Locations
 - Sampled Area

S-9

S-6

S-5

S-4

S-3

S-2

S-1

S-7

S-8

Google Earth

© 2013 Google

100 ft

N

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 Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C 01841	C	ED		1	29	24S	27E			573806	3561953*	1294	150		
C 00819	C	ED		4	4	26	24S	26E		570022	3560935*	3562	62	42	20
C 00262 POD2	C	ED		4	3	1	24	24S	26E	570234	3562337	3730	45	18	27
C 03777 POD1	C	ED		3	1	2	24	24S	26E	571120	3563571	3793	55	28	27
C 01169	C	ED		1	4	3	18	24S	27E	572282	3564261*	3808	55	35	20
C 03560 POD1	C	ED		2	3	3	18	24S	27E	572009	3564150	3808	68	28	40
C 00929	C	ED		3	3	18	24S	27E		572013	3564159*	3814	54	33	21
C 00690	C	ED		1	3	3	24	24S	26E	570288	3562653*	3834	30	10	20
C 00262	R	C	ED	4	3	1	24	24S	26E	570481	3563253*	4024	50		
C 00100 A	CUB	ED		1	1	3	24	24S	26E	570284	3563053	4058	51	26	25
C 00949	C	ED		1	1	3	24	24S	26E	570284	3563053*	4058	62	35	27
C 02043	C	ED		2	1	24	24S	26E		570805	3563758*	4141	42	28	14
C 00692	C	ED		3	3	1	24	24S	26E	570281	3563253*	4180	50	42	8
C 01616	C	ED		2	4	23	24S	26E		569988	3562956*	4248	84	84	0
C 03526 POD1	C	ED		1	4	4	23	24S	26E	569788	3562666	4277	200		
C 00883	C	ED		3	2	4	23	24S	26E	569887	3562855*	4282	60	14	46
C 01869	C	ED		4	23	24S	26E			569783	3562758*	4324	110	30	80
C 03110	C	ED		4	1	4	23	24S	26E	569690	3562856*	4453	35	12	23
C 01085	C	ED		4	2	23	24S	26E		569990	3563356*	4474	127	60	67
C 00829	C	ED		1	4	23	24S	26E		569591	3562957*	4589	50	19	31
C 01452	C	ED		22	24S	27E				577435	3563175*	4596	95	70	25
C 03675	C	ED		2	2	2	23	24S	26E	570134	3563860	4686	59	38	21
C 00396	C	ED		2	2	23	24S	26E		570003	3563758*	4716	2032		
C 00517	C	ED		1	3	2	23	24S	26E	569498	3563456*	4933	80	31	49

Average Depth to Water: **34 feet**
Minimum Depth: **10 feet**
Maximum Depth: **84 feet**

Record Count:24

UTM NAD83 Radius Search (in meters):

Easting (X): 573575

Northing (Y): 3560678.88

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.

2/22/18 8:16 AM

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

Received on
12/15/17
OCD District II
Artesia, NM
Submit a Copy to appropriate District Office in
accordance with 19.15.29 NMAC.
Form C-141
Revised April 3, 2017

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Devon Energy Production Company	Contact	Wes Ryan, Production Foreman
Address	6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No.	575-390-5436
Facility Name	Doc Holliday 32 State Com 1	Facility Type	Oil

Surface Owner	Federal	Mineral Owner	State	API No.	30-015-41145
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	32	24S	27E					Eddy

Latitude_32.18022_ Longitude_-104.21954_ NAD83

NATURE OF RELEASE

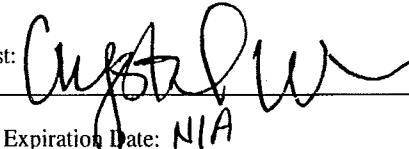
Type of Release Produced Water	Volume of Release Unknown	Volume Recovered 0bbls
Source of Release Illegal Dumping	Date and Hour of Occurrence December 3, 2017 @ 5:30 PM MST	Date and Hour of Discovery December 3, 2017 @ 5:30 PM MST
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Shelly Tucker, BLM Mike Bratcher & Crystal Weaver, OCD	
By Whom? Mike Shoemaker, EHS Professional	Date and Hour December 4, 2017 @ 8:56 PM	
Was a Watercourse Reached? ☐ Yes ☒ 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.* Local rancher contacted Devon staff and reporting suspicious activity that appeared to be an illegal dumping event. Devon staff went to the location and confirmed that an illegal dumping event had occurred. There was evidence of released fluids and impacted soils and truck tracks that were observed at the location.

Describe Area Affected and Cleanup Action Taken.* The pad surface and pasture were affected in an approximate 15'x90' area. An environmental contractor will be contacted to assist with delineation and remediation activities.

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: Sheila Fisher		OIL CONSERVATION DIVISION	
Printed Name: Sheila Fisher		Approved by Environmental Specialist: 	
Title: Field Admin Support		Approval Date: 11/8/18	Expiration Date: N/A
E-mail Address: Sheila.Fisher@devon.com		Conditions of Approval: see attached	
Date: 12/5/17 Phone: 575.748.1829		Attached ☒ 2KPD-4547	

* Attach Additional Sheets If Necessary

11/8/18AB

APPENDIX III

LABORATORY DATA



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

February 02, 2018

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: DOC HOLLIDAY 32 STATE COM 1

Enclosed are the results of analyses for samples received by the laboratory on 02/01/18 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	02/01/2018	Sampling Date:	01/31/2018
Reported:	02/02/2018	Sampling Type:	Soil
Project Name:	DOC HOLLIDAY 32 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	700794.260.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 1 0' (H800346-01)

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	02/02/2018	ND	2.09	104	2.00	3.58	
Toluene*	<0.050	0.050	02/02/2018	ND	2.07	104	2.00	3.29	
Ethylbenzene*	<0.050	0.050	02/02/2018	ND	2.06	103	2.00	4.08	
Total Xylenes*	<0.150	0.150	02/02/2018	ND	6.26	104	6.00	4.98	
Total BTEX	<0.300	0.300	02/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/02/2018	ND	416	104	400	7.41	

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	02/02/2018	ND	214	107	200	0.652	
DRO >C10-C28*	334	10.0	02/02/2018	ND	207	104	200	0.270	
EXT DRO >C28-C36	15.4	10.0	02/02/2018	ND					

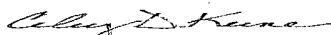
Surrogate: 1-Chlorooctane 78.3 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/01/2018	Sampling Date:	01/31/2018
Reported:	02/02/2018	Sampling Type:	Soil
Project Name:	DOC HOLLIDAY 32 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	700794.260.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 1 1' (H800346-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/02/2018	ND	416	104	400	7.41	

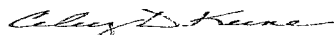
Sample ID: S- 1 2' R (H800346-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/02/2018	ND	416	104	400	7.41	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 02/01/2018
 Reported: 02/02/2018
 Project Name: DOC HOLLIDAY 32 STATE COM 1
 Project Number: 700794.260.01
 Project Location: DEVON - EDDY CO NM

 Sampling Date: 01/31/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S- 2 0' (H800346-04)

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	02/02/2018	ND	2.09	104	2.00	3.58	
Toluene*	<0.050	0.050	02/02/2018	ND	2.07	104	2.00	3.29	
Ethylbenzene*	<0.050	0.050	02/02/2018	ND	2.06	103	2.00	4.08	
Total Xylenes*	<0.150	0.150	02/02/2018	ND	6.26	104	6.00	4.98	
Total BTEX	<0.300	0.300	02/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/02/2018	ND	416	104	400	7.41		

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	02/02/2018	ND	214	107	200	0.652	
DRO >C10-C28*	16.6	10.0	02/02/2018	ND	207	104	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	02/02/2018	ND					

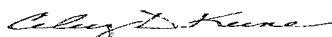
Surrogate: 1-Chlorooctane 88.6 % 41-142

Surrogate: 1-Chlorooctadecane 90.5 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
DAVID ADKINS
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Fax To: (575) 745-8905

Received:	02/01/2018	Sampling Date:	01/31/2018
Reported:	02/02/2018	Sampling Type:	Soil
Project Name:	DOC HOLLIDAY 32 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	700794.260.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 2 1' (H800346-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/02/2018	ND	416	104	400	7.41	

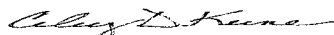
Sample ID: S- 2 1.5' R (H800346-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/02/2018	ND	416	104	400	7.41	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/01/2018	Sampling Date:	01/31/2018
Reported:	02/02/2018	Sampling Type:	Soil
Project Name:	DOC HOLLIDAY 32 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	700794.260.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 3 0' (H800346-07)

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	02/02/2018	ND	2.09	104	2.00	3.58	
Toluene*	<0.050	0.050	02/02/2018	ND	2.07	104	2.00	3.29	
Ethylbenzene*	<0.050	0.050	02/02/2018	ND	2.06	103	2.00	4.08	
Total Xylenes*	<0.150	0.150	02/02/2018	ND	6.26	104	6.00	4.98	
Total BTEX	<0.300	0.300	02/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PII) 110 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/02/2018	ND	416	104	400	7.41	

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	02/02/2018	ND	214	107	200	0.652	
DRO >C10-C28*	10.3	10.0	02/02/2018	ND	207	104	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	02/02/2018	ND					

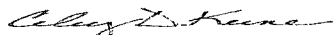
Surrogate: 1-Chlorooctane 85.4 % 41-142

Surrogate: 1-Chlorooctadecane 85.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/01/2018	Sampling Date:	01/31/2018
Reported:	02/02/2018	Sampling Type:	Soil
Project Name:	DOC HOLLIDAY 32 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	700794.260.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 3 1' (H800346-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/02/2018	ND	416	104	400	7.41		

Sample ID: S- 3 2' (H800346-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/02/2018	ND	416	104	400	7.41	

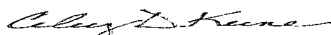
Sample ID: S- 3 3' R (H800346-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/02/2018	ND	416	104	400	7.41	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 02/01/2018
 Reported: 02/02/2018
 Project Name: DOC HOLLIDAY 32 STATE COM 1
 Project Number: 700794.260.01
 Project Location: DEVON - EDDY CO NM

 Sampling Date: 01/31/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S- 4 0' (H800346-11)

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	02/02/2018	ND	2.09	104	2.00	3.58	
Toluene*	<0.050	0.050	02/02/2018	ND	2.07	104	2.00	3.29	
Ethylbenzene*	<0.050	0.050	02/02/2018	ND	2.06	103	2.00	4.08	
Total Xylenes*	<0.150	0.150	02/02/2018	ND	6.26	104	6.00	4.98	
Total BTEX	<0.300	0.300	02/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/02/2018	ND	416	104	400	7.41		

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	02/02/2018	ND	214	107	200	0.652	
DRO >C10-C28*	11.6	10.0	02/02/2018	ND	207	104	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	02/02/2018	ND					

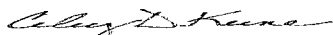
Surrogate: 1-Chlorooctane 74.2 % 41-142

Surrogate: 1-Chlorooctadecane 74.6 % 37.6-147

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Analytical Results For:

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

Received:	02/01/2018	Sampling Date:	01/31/2018
Reported:	02/02/2018	Sampling Type:	Soil
Project Name:	DOC HOLLIDAY 32 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	700794.260.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 4 1' (H800346-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/02/2018	ND	416	104	400	7.41	

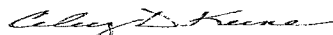
Sample ID: S- 4 2' R (H800346-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/02/2018	ND	416	104	400	7.41	

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Analytical Results For:

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

Received:	02/01/2018	Sampling Date:	01/31/2018
Reported:	02/02/2018	Sampling Type:	Soil
Project Name:	DOC HOLLIDAY 32 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	700794.260.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 5 0' (H800346-14)

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	02/02/2018	ND	2.09	104	2.00	3.58	
Toluene*	<0.050	0.050	02/02/2018	ND	2.07	104	2.00	3.29	
Ethylbenzene*	<0.050	0.050	02/02/2018	ND	2.06	103	2.00	4.08	
Total Xylenes*	<0.150	0.150	02/02/2018	ND	6.26	104	6.00	4.98	
Total BTEX	<0.300	0.300	02/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/02/2018	ND	416	104	400	7.41	

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	02/02/2018	ND	214	107	200	0.652	
DRO >C10-C28*	<10.0	10.0	02/02/2018	ND	207	104	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	02/02/2018	ND					

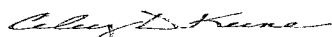
Surrogate: 1-Chlorooctane 80.7 % 41-142

Surrogate: 1-Chlorooctadecane 79.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/01/2018	Sampling Date:	01/31/2018
Reported:	02/02/2018	Sampling Type:	Soil
Project Name:	DOC HOLLIDAY 32 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	700794.260.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 5 1' (H800346-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/02/2018	ND	416	104	400	7.41	

Sample ID: S- 5 2' (H800346-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/02/2018	ND	416	104	400	7.41	

Sample ID: S- 5 3' (H800346-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/02/2018	ND	416	104	400	7.41	

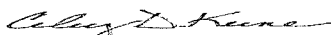
Sample ID: S- 5 4' (H800346-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/02/2018	ND	432	108	400	3.77	

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Analytical Results For:

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

Received:	02/01/2018	Sampling Date:	01/31/2018
Reported:	02/02/2018	Sampling Type:	Soil
Project Name:	DOC HOLLIDAY 32 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	700794.260.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 6 0' (H800346-19)

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	02/02/2018	ND	2.09	104	2.00	3.58		
Toluene*	<0.050	0.050	02/02/2018	ND	2.07	104	2.00	3.29		
Ethylbenzene*	<0.050	0.050	02/02/2018	ND	2.06	103	2.00	4.08		
Total Xylenes*	<0.150	0.150	02/02/2018	ND	6.26	104	6.00	4.98		
Total BTEX	<0.300	0.300	02/02/2018	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 112 % 72-148

Chloride, SM4500CI-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/02/2018	ND	432	108	400	3.77		

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	02/02/2018	ND	214	107	200	0.652	
DRO >C10-C28*	<10.0	10.0	02/02/2018	ND	207	104	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	02/02/2018	ND					

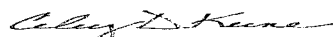
Surrogate: 1-Chlorooctane 76.3 % 41-142

Surrogate: 1-Chlorooctadecane 76.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/01/2018	Sampling Date:	01/31/2018
Reported:	02/02/2018	Sampling Type:	Soil
Project Name:	DOC HOLLIDAY 32 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	700794.260.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

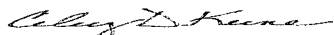
Sample ID: S- 6 1' R (H800346-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/02/2018	ND	432	108	400	3.77	

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Analytical Results For:

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

Received:	02/01/2018	Sampling Date:	01/31/2018
Reported:	02/02/2018	Sampling Type:	Soil
Project Name:	DOC HOLLIDAY 32 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	700794.260.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 7 0' (H800346-21)

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	02/02/2018	ND	2.09	104	2.00	3.58	
Toluene*	<0.050	0.050	02/02/2018	ND	2.07	104	2.00	3.29	
Ethylbenzene*	<0.050	0.050	02/02/2018	ND	2.06	103	2.00	4.08	
Total Xylenes*	<0.150	0.150	02/02/2018	ND	6.26	104	6.00	4.98	
Total BTX	<0.300	0.300	02/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PII) 108 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/02/2018	ND	432	108	400	3.77	

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	02/02/2018	ND	214	107	200	0.652	
DRO >C10-C28*	<10.0	10.0	02/02/2018	ND	207	104	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	02/02/2018	ND					

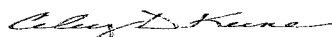
Surrogate: 1-Chlorooctane 81.6 % 41-142

Surrogate: 1-Chlorooctadecane 80.9 % 37.6-147

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Analytical Results For:

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

Received:	02/01/2018	Sampling Date:	01/31/2018
Reported:	02/02/2018	Sampling Type:	Soil
Project Name:	DOC HOLLIDAY 32 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	700794.260.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 7 1' (H800346-22)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/02/2018	ND	432	108	400	3.77	

Sample ID: S- 7 2' (H800346-23)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/02/2018	ND	432	108	400	3.77	

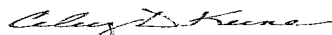
Sample ID: S- 7 3' R (H800346-24)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	02/02/2018	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/01/2018	Sampling Date:	01/31/2018
Reported:	02/02/2018	Sampling Type:	Soil
Project Name:	DOC HOLLIDAY 32 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	700794.260.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 8 0' (H800346-25)

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	02/02/2018	ND	2.09	104	2.00	3.58	
Toluene*	<0.050	0.050	02/02/2018	ND	2.07	104	2.00	3.29	
Ethylbenzene*	<0.050	0.050	02/02/2018	ND	2.06	103	2.00	4.08	
Total Xylenes*	<0.150	0.150	02/02/2018	ND	6.26	104	6.00	4.98	
Total BTEX	<0.300	0.300	02/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/02/2018	ND	432	108	400	3.77	

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	02/02/2018	ND	214	107	200	0.652	
DRO >C10-C28*	<10.0	10.0	02/02/2018	ND	207	104	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	02/02/2018	ND					

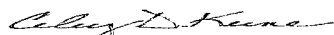
Surrogate: 1-Chlorooctane 79.0 % 41-142

Surrogate: 1-Chlorooctadecane 80.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/01/2018
Reported: 02/02/2018
Project Name: DOC HOLLIDAY 32 STATE COM 1
Project Number: 700794.260.01
Project Location: DEVON - EDDY CO NM

Sampling Date: 01/31/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

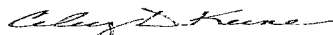
Sample ID: S- 8 1' R (H800346-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/02/2018	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/01/2018	Sampling Date:	01/31/2018
Reported:	02/02/2018	Sampling Type:	Soil
Project Name:	DOC HOLLIDAY 32 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	700794.260.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 9 0' (H800346-27)

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	02/02/2018	ND	2.09	104	2.00	3.58	
Toluene*	<0.050	0.050	02/02/2018	ND	2.07	104	2.00	3.29	
Ethylbenzene*	<0.050	0.050	02/02/2018	ND	2.06	103	2.00	4.08	
Total Xylenes*	<0.150	0.150	02/02/2018	ND	6.26	104	6.00	4.98	
Total BTEX	<0.300	0.300	02/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/02/2018	ND	432	108	400	3.77	

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	02/02/2018	ND	214	107	200	0.652	
DRO >C10-C28*	<10.0	10.0	02/02/2018	ND	207	104	200	0.270	
EXT DRO >C28-C36	<10.0	10.0	02/02/2018	ND					

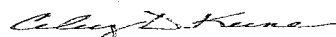
Surrogate: 1-Chlorooctane 87.9 % 41-142

Surrogate: 1-Chlorooctadecane 86.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/01/2018	Sampling Date:	01/31/2018
Reported:	02/02/2018	Sampling Type:	Soil
Project Name:	DOC HOLLIDAY 32 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	700794.260.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 9 1' (H800346-28)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	02/02/2018	ND	432	108	400	3.77	

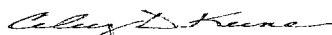
Sample ID: S- 9 2' R (H800346-29)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	02/02/2018	ND	432	108	400	3.77	

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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

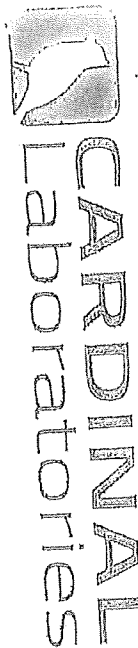
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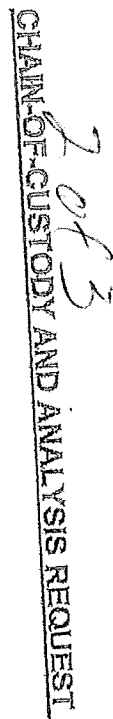
Celey D. Keene, Lab Director/Quality Manager



1 of 3
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

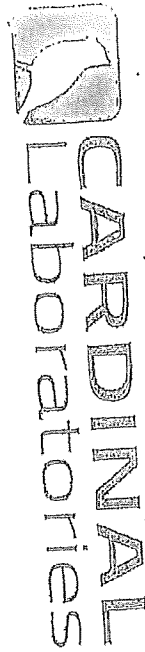
101 East Maryland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Talon/LPE		P.O. #:	
Project Manager: A. McKen		Company: Talon/LPE	
Address: 408 W. Texas Ave.		Attn:	
City: Artesia		Address:	
State: NM zip: 88210		City:	
Phone #: 575-746-8768		Fax #: 575-746-8905	
Project #: 760794.260.01		Project Owner: Navajo	
Project Name: Navajo Holiday 38 State: Can 1		State: Zip:	
Project Location: Eddy County		Phone #:	
Sample Name: 5 hard		Fax #:	
FOR LAB USE ONLY		PRESERV. SAMPLING	
Lab I.D.		Matrix	
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429		1358	
430		1358	
431		1358	
432		1358	
433		1358	
434		1358	
435		1358	
436		1358	
437		1358	
438		1358	
439		1358	



ANALYSIS REQUEST

Page 22 of 23



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3043

101 East Maryland, Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2326

Company Name: Talon/LPE

Project Manager: A. Adkins

Address: 408 W. Texas Ave.

City: Artesia

Phone #: 575-746-8768

Project #: 700744.260.01

Project Name: Mac-Halliday 3d State Court

Project Location: Eddy County

Sampler Name: J. Ford

P.O. #:

Company: Talon/LPE

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER:	DATE	TIME	ANALYSIS REQUEST
H800346	5-4 0'	G	1										5/3/19	1422	Chlorides
01	5-4 0'												5/3/19	1424	BTEX
02	5-4 1'												5/3/19	1425	TPH EXT
03	5-4 2'												5/3/19	1427	
04	5-4 3'												5/3/19	1430	
05	5-4 4'												5/3/19	1432	
06	5-4 5'												5/3/19	1435	
07	5-4 6'												5/3/19	1436	
08	5-4 7'												5/3/19	1438	
09	5-4 8'												5/3/19	1439	

FOR LAB USE ONLY

Reinforced By: J. Ford

Received By: J. Ford

Delivered By: (Circle One) 3. 1

Sampler - LPE - Bus - Other: 3. 35 corrected

Sample Condition: Cool Intact

Yes ☒ No ☐

Checked By: J. Ford

Phone Result: ☐ Yes ☐ No ☐

Remarks: Bush

April 13, 2018

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: DOC HOLLIDAY 32 STATE COM 1

Enclosed are the results of analyses for samples received by the laboratory on 04/12/18 9:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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.

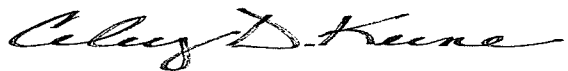
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Received:	04/12/2018	Sampling Date:	04/10/2018
Reported:	04/13/2018	Sampling Type:	Soil
Project Name:	DOC HOLLIDAY 32 STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	700794.260.01	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S-1 0.5' (H801001-01)

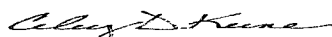
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2018	ND	206	103	200	1.31	
DRO >C10-C28*	<10.0	10.0	04/13/2018	ND	210	105	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	04/13/2018	ND					

Surrogate: 1-Chlorooctane	69.5 %	41-142
Surrogate: 1-Chlorooctadecane	71.2 %	37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

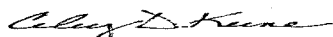
Notes and Definitions

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

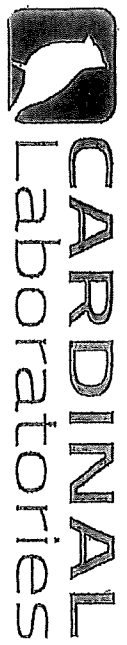
Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Maryland, Hobbs, NM 88240
(575) 398-2326 FAX (575) 398-2475

ANALYSIS REQUEST

Company Name: Talon/PE

Project Manager: M. Adkins

Address: 408 W. Texas Ave.

City: Artesia

State: NM Zip: 88210

Phone #: 575-746-8768

Fax #: 575-746-8905

Project #: 100799.260.01 Project Owner: Devan

Project Name: Mac Holladay 38 State Land

Project Location: Eddy County

Sampler Name: J. Howard

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H801001

S-1 0.5'

(C)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE/COOL

OTHER:

DATE

TIME

10/18/04

1

TPH Ext

PLEASE NOTE: Liability and Damages. Cardinal's liability and damages are limited to the amount paid by the client for the analysis. At no time shall Cardinal be held responsible for any damages or losses resulting from the use of the analysis. In the event that Cardinal is held responsible for any damages or losses, the client shall be responsible for the payment of the damages or losses. Cardinal's liability and damages are limited to the amount paid by the client for the analysis. At no time shall Cardinal be held responsible for any damages or losses resulting from the use of the analysis. In the event that Cardinal is held responsible for any damages or losses, the client shall be responsible for the payment of the damages or losses.

Relinquished By:

Date: 11/12/18

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

Relinquished By:

Date: 11/12/18

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

Delivered By: J. Howard

Date: 11/12/18

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

Sampler - UPS - Box - Other:

Date: 11/12/18

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

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

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APPENDIX IV

FINAL C-141