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**Soil Assessment and Remediation Work Plan
Apache Corporation: Skelly Road CR 221
[2RP-3749]**

November 29, 2016

Prepared By:
Kimberly Wilson
TALON/LPE
408 W. Texas Avenue
Artesia, New Mexico 88210

Prepared For:

Apache Corporation

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

Subject: **Soil Assessment and Remediation Work Plan**
Skelly Road CR 221
2RP-3749

Dear Mr. Bratcher,

Apache Corporation (Apache) 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 Water Header CR 221 is located approximately thirty (30) miles east of Artesia, New Mexico. The legal location for this site is Unit Letter H of Section 24, Township 17 South, and Range 30 East in Eddy County, New Mexico. More specifically the latitude and longitude for the location are 32.8226 North and -103.917183 West. See site plan in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service (NRCS), the soil in this area is made up of Simona gravelly fine sandy loam with 0 to 3 percent slopes. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

According to the New Mexico Office of the State Engineer there are 3 wells within 5,000 meters of the release area and they all appear to be dry wells. 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 1,000 mg/kg for total chlorides.

Incident Description and Initial Remedial Actions

On June 2, 2016, a steel nipple between a poly flowline and a header valve failed due to corrosion resulting in the release of approximately 20bbls of produced water. The line was isolated, repaired and put back into service. The produced water release flowed from the header down gradient to the south along the west side of CR-221 (Skelly Rd.). After approximately 550-feet the fluid crossed to the east side of the road. The fluid continued approximately 350-feet down the west side of the road, 220-feet down the bar ditch on the east side of the road, and 240-feet down the draw adjacent to the road on the west side. See [Appendix I](#) for a site plan of the impacted area.

On June 8, 2016, Talon mobilized personnel to conduct a site assessment and perform soil sampling within the impacted area utilizing a hand auger. Upon receipt of analytical data from this sampling event it was determined that sample locations S-1, S-2, and S-3 would need to be further vertically delineated. On June 27, 2016 Talon mobilized a backhoe to complete the vertical delineation. At sample location S-1 however, a test pit could not be advanced due to the infrastructure at this location (the header, flowlines, etc.). The results of our soil sampling activities are summarized in the table below.

Laboratory Results

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

June, 2016

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	ND	9730	ND	25.4
S-1	1	ND	3600	ND	ND
S-1	2	--	10100	--	--
S-1	3	--	10900	--	--
S-1	4	--	18000	--	--
S-2	0	ND	22000	ND	1280
S-2	1	ND	992	ND	ND
S-2	2	--	5760	--	--
S-2	3	--	8400	--	--
S-2	4	--	16000	--	--
S-2	5	--	2000	--	--
S-2	6	--	192	--	--
S-3	0	--	14200	--	--
S-3	1	--	6800	--	--
S-3	2	--	8260	--	--
S-3	3	--	4560	--	--
S-3	4	--	528	--	--
S-3	5	--	64	--	--
S-4	0	--	14600	--	--

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-4	1	--	3200	--	--
S-4	2	--	80	--	--
S-5	0	--	8130	--	--
S-5	1	--	128	--	--
S-6	0	--	23600	--	--
S-6	1	--	272	--	--
S-6	2	--	80	--	--
S-7	0	--	22400	--	--
S-7	1	--	512	--	--
S-7	2	--	80	--	--
S-8	0	--	18400	--	--
S-8	1	--	ND	--	--
S-9	0	--	3920	--	--
S-9	1	--	352	--	--
S-9	2	--	96	--	--

(--) Analyte Not Tested

(ND) Analyte Not Detected

After several months and multiple rainfall events, the site was re-evaluated to see if the impacted areas were suitable to support vegetation. The previously sampled areas were resampled on September 22, 2016 and the resulting data is presented below.

October 1, 2016

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	--	608	--	--
S-1	1	--	208	--	--
S-1	2	--	224	--	--
S-1	3	--	288	--	--
S-1	4	--	496	--	--
S-2	0	--	3480	--	--
S-2	1	--	1200	--	--
S-2	2	--	1740	--	--
S-2	3	--	2640	--	--
S-2	4	--	2600	--	--
S-3	0	--	96	--	--
S-3	1	--	80	--	--
S-3	2	--	32	--	--
S-3	3	--	32	--	--
S-3	4	--	400	--	--
S-4	0	--	<16	--	--
S-4	1	--	<16	--	--

S-5	0	--	<16	--	--
S-5	1	--	<16	--	--
S-5	2	--	<16	--	--
S-6	0	--	<16	--	--
S-6	1	--	<16	--	--
S-6	2	--	<16	--	--
S-7	0	--	<16	--	--
S-8	0	--	<16	--	--
S-8	1	--	<16	--	--
S-8	2	--	<16	--	--
S-9	0	--	<16	--	--
S-9	1	--	<16	--	--
S-9	2	--	<16	--	--
S-9	3	--	<16	--	--

(--) Analyte Not Tested

Based upon the results of our re-sampling event, sample location S-2 was resampled on October 18, 2016, with a backhoe. The soil samples were field titrated for total chlorides concentrations and also sent to the lab. The results are presented on the following data tables.

10/18/16 **S-2 Chloride Titration Results**

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-2	1'	--	141	--	--
S-2	2'	--	354	--	--
S-2	3'	--	2197	--	--
S-2	5'	--	1559	--	--
S-2	7'	--	1347	--	--
S-2	9'	--	850	--	--
S-2	11'	--	4395	--	--
S-2	12'	--	1418	--	--
S-2	13'	--	283	--	--

(--) Analyte Not Tested

November 3, 2016

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-2	1	--	64	--	--
S-2	3'	--	2360	--	--
S-2	5'	--	2080	--	--
S-2	7'	--	1630	--	--
S-2	9'	--	1060	--	--
S-2	11'	--	4260	--	--
S-2	13'	--	224	--	--

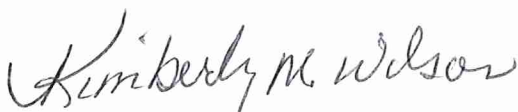
Conclusions and Proposed Remedial Actions

- Due to the release being in an area where there is no known groundwater it is very unlikely that the chloride concentrations at S-2 would impact groundwater.
- A buried high pressured gas line run alongside the impacted area at sample location S-2. The impacted area will be excavated to a depth of 4-feet or to the best extent reasonable, feasible and as safely as possible.
- All of the excavated material will be hauled to an NMOCD approved disposal facility.
- The backfilled area will be contoured to match the surrounding terrain and left in a "rough" condition to approximate natural surface deviations, control erosion, and promote revegetation and seed with BLM recommended seed mixture.
- A Final C-141 Form will be provided to the BLM and NMOCD Artesia Office along with a Final C-141 Form.

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



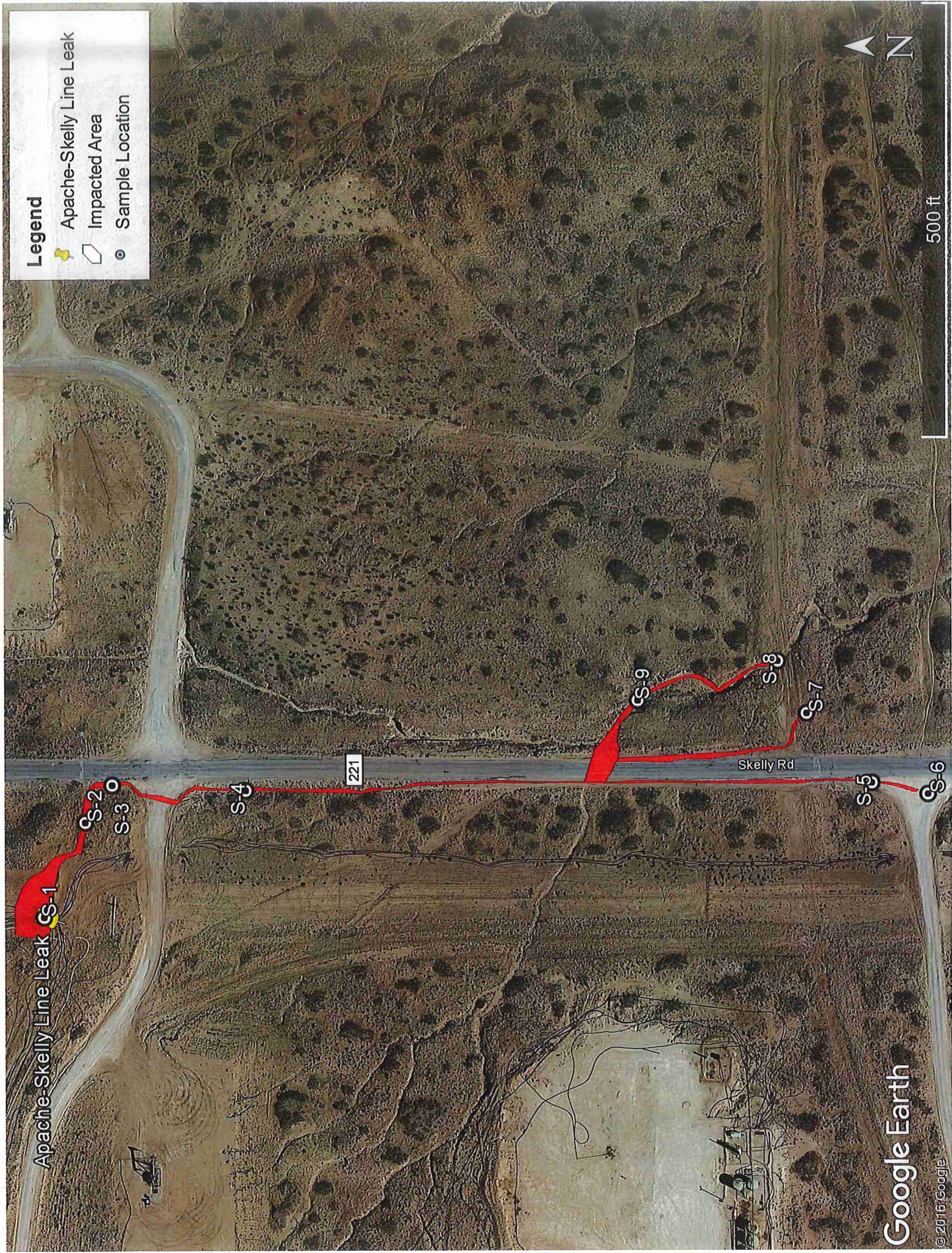
David J. Adkins
District Manager

Attachments

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

APPENDIX I

SITE PLAN



APPENDIX II

GROUNDWATER DATA



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
RA 11590 POD4			ED	4	1	1	32	17S	31E	603308	3629253	3695	55		
RA 11590 POD3			ED	3	1	2	32	17S	31E	603932	3629260	4066	60		
RA 11590 POD1			ED	2	1	3	32	17S	31E	603315	3628545	4309	158		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 601284

Northing (Y): 3632346

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.

APPENDIX III

INITIAL C-141

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

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141

Revised August 8, 2011

JUN 17 2016

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

1AB1617332225

Release Notification and Corrective Action

1AB1617332805

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Apache Corporation	Contact: Bruce Baker
Address: 2350 W Marland Blvd Hobbs, NM 88240	Telephone No. (432) 631-6982
Facility Name: Water Header CR221	Facility Type: Header (Injection plant)

Surface Owner: Federal	Mineral Owner:	API No.:
------------------------	----------------	----------

LOCATION OF RELEASE

Unit Letter	Section 24	Township 17S	Range 30E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
-------------	------------	--------------	-----------	---------------	------------------	---------------	----------------	-------------

Latitude N32.8226 Longitude W-103.917183

NATURE OF RELEASE

Type of Release: produced water	Volume of Release: 20 Barrels of produced water	Volume Recovered: 0
Source of Release: Steel nipple from header to poly flow line	Date and Hour of Occurrence: 6/2/2016	Date and Hour of Discovery: 6/2/2016 at 9:00 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Shelly Tucker (BLM) Mike Bratcher (NMOCD)	
By Whom? Bruce Baker	Date and Hour: 6/3/2016 at 8:41 a.m. via email	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A steel nipple corroded between the header and poly flowline. The line was isolated and repaired.

Describe Area Affected and Cleanup Action Taken.*

The majority of the release was in the pasture and ran down the west edge of CR221 and crossed CR221 into the pasture east of CR221. The area was mapped and initial samples collected.

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: <u>Bruce Baker</u>	OIL CONSERVATION DIVISION	
Printed Name: Bruce Baker	Approved by Environmental Specialist: <u>[Signature]</u>	
Title: Environmental Technician	Approval Date: <u>6/21/16</u>	Expiration Date: <u>N/A</u>
E-mail Address: larry.baker@apachecorp.com	Conditions of Approval:	
Date: 6/17/2016 Phone: (432) 631-6982	Remediation per O.C.D. Rules & Guidelines <input type="checkbox"/> Attached <input type="checkbox"/>	

SUBMIT REMEDIATION PROPOSAL NO

LATER THAN: 7/21/16

2RP-5749

* Attach Additional Sheets If Necessary

APPENDIX IV

LABORATORY RESULTS



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

June 15, 2016

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: APACHE SKELLY RD. RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 06/08/16 14:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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: 06/08/2016
Reported: 06/15/2016
Project Name: APACHE SKELLY RD. RELEASE
Project Number: 700745.060.01
Project Location: NONE GIVEN

Sampling Date: 06/08/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 0' (H601260-01)

BTX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2016	ND	1.91	95.3	2.00	0.0315	
Toluene*	<0.050	0.050	06/10/2016	ND	2.01	100	2.00	1.18	
Ethylbenzene*	<0.050	0.050	06/10/2016	ND	1.97	98.3	2.00	0.00101	
Total Xylenes*	<0.150	0.150	06/10/2016	ND	6.55	109	6.00	0.681	
Total BTX	<0.300	0.300	06/10/2016	ND					

Surrogate: Dibromofluoromethane 101 % 90.4-111

Surrogate: Toluene-d8 98.5 % 85.3-114

Surrogate: 4-Bromofluorobenzene 105 % 80.1-121

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9730	16.0	06/09/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/09/2016	ND	214	107	200	1.12	QR-03
DRO >C10-C28	25.4	10.0	06/09/2016	ND	221	111	200	3.65	QR-03

Surrogate: 1-Chlorooctane 89.5 % 35-147

Surrogate: 1-Chlorooctadecane 97.6 % 28-171

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: 06/08/2016
Reported: 06/15/2016
Project Name: APACHE SKELLY RD. RELEASE
Project Number: 700745.060.01
Project Location: NONE GIVEN

Sampling Date: 06/08/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 1' (H601260-02)

BTEx 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2016	ND	1.91	95.3	2.00	0.0315	
Toluene*	<0.050	0.050	06/10/2016	ND	2.01	100	2.00	1.18	
Ethylbenzene*	<0.050	0.050	06/10/2016	ND	1.97	98.3	2.00	0.00101	
Total Xylenes*	<0.150	0.150	06/10/2016	ND	6.55	109	6.00	0.681	
Total BTEX	<0.300	0.300	06/10/2016	ND					

Surrogate: Dibromofluoromethane 106 % 90.4-111

Surrogate: Toluene-d8 96.9 % 85.3-114

Surrogate: 4-Bromofluorobenzene 104 % 80.1-121

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	06/09/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/09/2016	ND	214	107	200	1.12	
DRO >C10-C28	<10.0	10.0	06/09/2016	ND	221	111	200	3.65	

Surrogate: 1-Chlorooctane 86.5 % 35-147

Surrogate: 1-Chlorooctadecane 95.5 % 28-171

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:	06/08/2016	Sampling Date:	06/08/2016
Reported:	06/15/2016	Sampling Type:	Soil
Project Name:	APACHE SKELLY RD. RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700745.060.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-1 2' (H601260-03)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10100	16.0	06/09/2016	ND	416	104	400	0.00		

Sample ID: S-1 3' (H601260-04)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10900	16.0	06/09/2016	ND	416	104	400	0.00	


Sample ID: S-1 4' (H601260-05)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	18000	16.0	06/09/2016	ND	416	104	400	0.00		

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: 06/08/2016
Reported: 06/15/2016
Project Name: APACHE SKELLY RD. RELEASE
Project Number: 700745.060.01
Project Location: NONE GIVEN

Sampling Date: 06/08/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 0' (H601260-06)

BTX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/13/2016	ND	2.08	104	2.00	0.133	
Toluene*	<0.050	0.050	06/13/2016	ND	1.98	99.1	2.00	1.88	
Ethylbenzene*	<0.050	0.050	06/13/2016	ND	1.95	97.3	2.00	1.78	
Total Xylenes*	<0.150	0.150	06/13/2016	ND	6.50	108	6.00	2.32	
Total BTX	<0.300	0.300	06/13/2016	ND					

Surrogate: Dibromofluoromethane 107 % 90.4-111

Surrogate: Toluene-d8 93.6 % 85.3-114

Surrogate: 4-Bromofluorobenzene 106 % 80.1-121

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22000	16.0	06/09/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/09/2016	ND	214	107	200	1.12	
DRO >C10-C28	1280	50.0	06/09/2016	ND	221	111	200	3.65	

Surrogate: 1-Chlorooctane 83.0 % 35-147

Surrogate: 1-Chlorooctadecane 59.9 % 28-171

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*=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: 06/08/2016
Reported: 06/15/2016
Project Name: APACHE SKELLY RD. RELEASE
Project Number: 700745.060.01
Project Location: NONE GIVEN

Sampling Date: 06/08/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 1' (H601260-07)

BTX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/13/2016	ND	2.08	104	2.00	0.133	
Toluene*	<0.050	0.050	06/13/2016	ND	1.98	99.1	2.00	1.88	
Ethylbenzene*	<0.050	0.050	06/13/2016	ND	1.95	97.3	2.00	1.78	
Total Xylenes*	<0.150	0.150	06/13/2016	ND	6.50	108	6.00	2.32	
Total BTX	<0.300	0.300	06/13/2016	ND					

Surrogate: Dibromofluoromethane 107 % 90.4-111

Surrogate: Toluene-d8 93.7 % 85.3-114

Surrogate: 4-Bromofluorobenzene 104 % 80.1-121

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	06/09/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/09/2016	ND	214	107	200	1.12	
DRO >C10-C28	<10.0	10.0	06/09/2016	ND	221	111	200	3.65	

Surrogate: 1-Chlorooctane 85.6 % 35-147

Surrogate: 1-Chlorooctadecane 97.8 % 28-171

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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: 06/08/2016
 Reported: 06/15/2016
 Project Name: APACHE SKELLY RD. RELEASE
 Project Number: 700745.060.01
 Project Location: NONE GIVEN

 Sampling Date: 06/08/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-2 2' (H601260-08)

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5760	16.0	06/09/2016	ND	416	104	400	0.00	

Sample ID: S-2 3' (H601260-09)

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	06/09/2016	ND	416	104	400	0.00	

Sample ID: S-2 4' (H601260-10)

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16000	16.0	06/09/2016	ND	416	104	400	0.00	

Sample ID: S-3 0' (H601260-11)

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14200	16.0	06/09/2016	ND	416	104	400	0.00	

Sample ID: S-3 1' (H601260-12)

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	06/09/2016	ND	416	104	400	0.00	

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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:	06/08/2016	Sampling Date:	06/08/2016
Reported:	06/15/2016	Sampling Type:	Soil
Project Name:	APACHE SKELLY RD. RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700745.060.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-3 2' (H601260-13)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8260	16.0	06/09/2016	ND	416	104	400	0.00	

Sample ID: S-3 3' (H601260-14)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	06/09/2016	ND	416	104	400	0.00	

Sample ID: S-3 4' (H601260-15)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	06/09/2016	ND	416	104	400	0.00	

Sample ID: S-4 0' (H601260-16)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14600	16.0	06/09/2016	ND	416	104	400	0.00	

Sample ID: S-4 1' (H601260-17)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	06/09/2016	ND	416	104	400	0.00	

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Analytical Results For:

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

Received:	06/08/2016	Sampling Date:	06/08/2016
Reported:	06/15/2016	Sampling Type:	Soil
Project Name:	APACHE SKELLY RD. RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700745.060.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-4 2' (H601260-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/10/2016	ND	400	100	400	7.69	

Sample ID: S-5 0' (H601260-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8130	16.0	06/10/2016	ND	400	100	400	7.69	

Sample ID: S-5 1' (H601260-22)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/10/2016	ND	400	100	400	7.69	

Sample ID: S-6 0' (H601260-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	23600	16.0	06/10/2016	ND	400	100	400	7.69	

Sample ID: S-6 1' (H601260-27)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/10/2016	ND	400	100	400	7.69	

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Analytical Results For:

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

Received:	06/08/2016	Sampling Date:	06/08/2016
Reported:	06/15/2016	Sampling Type:	Soil
Project Name:	APACHE SKELLY RD. RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700745.060.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-6 2' (H601260-28)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/10/2016	ND	400	100	400	7.69	

Sample ID: S-7 0' (H601260-31)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22400	16.0	06/10/2016	ND	400	100	400	7.69	

Sample ID: S-7 1' (H601260-32)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	06/10/2016	ND	400	100	400	7.69	

Sample ID: S-7 2' (H601260-33)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/10/2016	ND	400	100	400	7.69	

Sample ID: S-8 0' (H601260-36)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18400	16.0	06/10/2016	ND	400	100	400	7.69	

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Analytical Results For:

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

Received:	06/08/2016	Sampling Date:	06/08/2016
Reported:	06/15/2016	Sampling Type:	Soil
Project Name:	APACHE SKELLY RD. RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700745.060.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-8 1' (H601260-37)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/10/2016	ND	400	100	400	7.69	

Sample ID: S-9 0' (H601260-41)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	06/10/2016	ND	432	108	400	0.00	

Sample ID: S-9 1' (H601260-42)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	06/10/2016	ND	432	108	400	0.00	

Sample ID: S-9 2' (H601260-43)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/10/2016	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

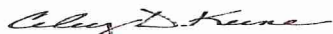
Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- 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



CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

pg 2 of 2

Company Name: Talon/LPE		P.O. #:		BILL TO										ANALYSIS REQUEST																									
Project Manager:		Address: 408 W. Texas Ave.		Company: Talon/LPE																																			
City: Artesia		State: NM Zip: 88210		Attn:																																			
Phone #: 575-746-8768		Fax #: 575-746-8905		Address:																																			
Project #:		Project Owner:		City:																																			
Project Name: Apache Skelly Rd. Release		State:		Zip:																																			
Project Location:		Phone #:		Fax #:																																			
Sample Name:		FOR LAB USE ONLY		Matrix		PRESERV		SAMPLING																															
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME											
HCL200		-11 5-30'		G		1																				6/8/16		11:36		Chlorides									
		-12 5-31'		G		1																				11:32		11:32											
		-13 5-32'		G		1																				11:34		11:34											
		-14 5-33'		G		1																				11:36		11:36											
		-15 5-34'		G		1																				11:38		11:38											
		-16 5-40'		G		1																				11:50		11:50											
		-17 5-41'		G		1																				11:52		11:52											
		-18 5-42'		G		1																				11:54		11:54											
		-19 5-43'		G		1																				11:56		11:56											
		-20 5-44'		G		1																				11:58		11:58											
PLEASE NOTE: Liability and claims are limited to the amount paid by the client for the analysis. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		Relinquished By:		Date: 6/8/16		Received By:		Time: 2:55		Sample Condition		Checked By:		Phone Result:		Fax Result:		Add'l Phone #:		Add'l Fax #:																			
		Relinquished By:		Date:		Received By:		Time:		Cool		(Initials)		REMARKS:																									
		Relinquished By:		Date:		Received By:		Time:		Intact																													
		Relinquished By:		Date:		Received By:		Time:		Yes																													

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LPE		P.O. #:		ANALYSIS REQUEST									
Project Manager:		Company: Talon/LPE											
Address: 408 W. Texas Ave.		Attn:											
City: Artesia		Address:											
Phone #: 575-746-8768		City:											
Fax #: 575-746-8905		State:											
Project #:		Zip:											
Project Name: <i>Palme Shelly Rd. Release</i>		Phone #:											
Project Location:		Fax #:											
Sampler Name:		SAMPLING											
FOR LAB USE ONLY		MATRIX											
Lab I.D.		Sample I.D.											
HOB 6200		(G)RAB OR (C)OMP.											
-21 5-50'		# CONTAINERS											
-23 5-51'		GROUNDWATER											
-23 5-52'		WASTEWATER											
-24 5-53'		SOIL											
-25 5-54'		OIL											
-26 5-55'		SLUDGE											
-27 5-56'		OTHER :											
-28 5-57'		ACID/BASE:											
-29 5-58'		ICE / COOL											
-30 5-59'		OTHER :											
DATE		TIME											
12/16		12:20											
12:22		12:22											
12:24		12:24											
12:26		12:26											
12:28		12:28											
12:30		12:30											
12:32		12:32											
12:34		12:34											
12:36		12:36											
12:38		12:38											
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13:00		13:00											
13:02		13:02											
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13:06		13:06											
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13:48		13:48											
13:50		13:50											
13:52		13:52											
13:54		13:54											
13:56		13:56											
13:58		13:58											
14:00		14:00											
14:02		14:02											
14:04		14:04											
14:06		14:06											
14:08		14:08											
14:10		14:10											
14:12		14:12											
14:14		14:14											
14:16		14:16											
14:18		14:18											
14:20		14:20											
14:22		14:22											
14:24		14:24											
14:26		14:26											
14:28		14:28											
14:30		14:30											
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14:36		14:36											
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CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/PE

Project Manager:

Address: 408 W. Texas Ave.

City: Artesia

State: NM Zip: 88210

Phone #: 575-746-8768

Fax #: 575-746-8905

Project #:

Project Owner:

Project Name:

Project Location:

Sampler Name:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H001200

315-70'

335-71'

335-72'

345-73'

355-74'

365-75'

375-76'

385-77'

395-78'

405-79'

415-80'

425-81'

435-82'

445-83'

455-84'

465-85'

475-86'

485-87'

495-88'

505-89'

515-90'

525-91'

535-92'

545-93'

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575-96'

585-97'

595-98'

605-99'

615-100'

625-101'

635-102'

645-103'

655-104'

665-105'

675-106'

685-107'

695-108'

705-109'

715-110'

725-111'

735-112'

745-113'

755-114'

765-115'

775-116'

785-117'

795-118'

805-119'

815-120'

825-121'

835-122'

845-123'

855-124'

865-125'

875-126'

885-127'

895-128'

905-129'

915-130'

925-131'

935-132'

945-133'

955-134'

965-135'

975-136'

985-137'

995-138'

1005-139'

1015-140'

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2985-337'

2995-338'

3005-339'

3015-340'

3025-341'

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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. #:		BILL TO		ANALYSIS REQUEST									
Project Manager:															
Address: 408 W. Texas Ave.		Company: Talon/LPE													
City: Artesia		Attn:													
State: NM Zip: 88210		Address:													
Phone #: 575-746-8768		City:													
Fax #: 575-746-8905		State:													
Project #:		Zip:													
Project Name: Apache Shelly Rd. Release		Phone #:													
Project Location:		Fax #:													
Sampler Name:															
FOR LAB USE ONLY															
Lab I.D.		Sample I.D.		(G)RAB OR (C)COMP.		# CONTAINERS		MATRIX		PRESERV		SAMPLING			
H001200		41		5-90'		G		1		GROUNDWATER		DATE		TIME	
		-42		5-41'		G		1		WASTEWATER		11/30		XX	
		-43		5-42'		G		1		SOIL		11/32			
		-44		5-43'		G		1		OIL		11/34			
		-45		5-44'		G		1		SLUDGE		11/36			
										OTHER :					
										ACID/BASE:					
										ICE / COOL					
										OTHER :					

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising under this contract shall be limited to the amount paid by the client to the company. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profit incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Shelly Perez Date: 10/8/16 Received By: Michael Obere Phone Result: ☐ Yes ☐ No Add'l Phone #:

Relinquished By: Date: Received By: Fax Result: ☐ Yes ☐ No Add'l Fax #:

Delivered By: (Circle One) Shelly Perez Sample Condition: Cool ☐ Impact ☐ Yes ☒ No

Sampler - UPS - Bus - Other: Shelly Perez Checked By: (Initials)

REMARKS: Chlorides



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

June 29, 2016

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: SKELLY ROAD RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 06/27/16 12:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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:	06/27/2016	Sampling Date:	06/27/2016
Reported:	06/29/2016	Sampling Type:	Soil
Project Name:	SKELLY ROAD RELEASE	Sampling Condition:	** (See Notes)
Project Number:	700745.068.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-2 5' (H601397-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	06/28/2016	ND	400	100	400	3.92	

Sample ID: S-2 6' (H601397-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/28/2016	ND	400	100	400	3.92	

Sample ID: S-3 5' (H601397-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/28/2016	ND	400	100	400	3.92	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

QM-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

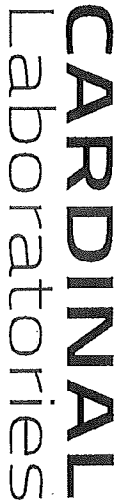
Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 396/2326

October 01, 2016

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: SKELLY ROAD RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 09/28/16 9:40.

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

Received:	09/28/2016	Sampling Date:	09/22/2016
Reported:	10/01/2016	Sampling Type:	Soil
Project Name:	SKELLY ROAD RELEASE	Sampling Condition:	** (See Notes)
Project Number:	700745.068.01	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: S-1 0' (H602171-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	09/30/2016	ND	416	104	400	0.00	

Sample ID: S-1 1' (H602171-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/30/2016	ND	416	104	400	0.00	

Sample ID: S-1 2' (H602171-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/30/2016	ND	416	104	400	0.00	

Sample ID: S-1 3' (H602171-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/30/2016	ND	416	104	400	0.00	

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:	09/28/2016	Sampling Date:	09/22/2016
Reported:	10/01/2016	Sampling Type:	Soil
Project Name:	SKELLY ROAD RELEASE	Sampling Condition:	** (See Notes)
Project Number:	700745.068.01	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: S-1 4' (H602171-05)

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	09/30/2016	ND	416	104	400	0.00	

Sample ID: S-2 0' (H602171-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	09/30/2016	ND	416	104	400	0.00	

Sample ID: S-2 1' (H602171-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	09/30/2016	ND	400	100	400	3.92	

Sample ID: S-2 2' (H602171-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1740	16.0	09/30/2016	ND	400	100	400	3.92	

Sample ID: S-2 3' (H602171-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2640	16.0	09/30/2016	ND	400	100	400	3.92	

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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: 09/28/2016
 Reported: 10/01/2016
 Project Name: SKELLY ROAD RELEASE
 Project Number: 700745.068.01
 Project Location: NONE GIVEN

 Sampling Date: 09/22/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Celey D. Keene

Sample ID: S-2 4' (H602171-10)

Chloride, SM4500CI-B			mg/kg							Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	2600	16.0	09/30/2016	ND	400	100	400	3.92			

Sample ID: S-3 0' (H602171-11)

Chloride, SM4500CI-B			mg/kg							Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	96.0	16.0	09/30/2016	ND	400	100	400	3.92			

Sample ID: S-3 1' (H602171-12)

Chloride, SM4500CI-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	09/30/2016	ND	400	100	400	3.92			

Sample ID: S-3 2' (H602171-13)

Chloride, SM4500CI-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	09/30/2016	ND	400	100	400	3.92			


Sample ID: S-3 3' (H602171-14)

Chloride, SM4500CI-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	09/30/2016	ND	400	100	400	3.92			

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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:	09/28/2016	Sampling Date:	09/22/2016
Reported:	10/01/2016	Sampling Type:	Soil
Project Name:	SKELLY ROAD RELEASE	Sampling Condition:	** (See Notes)
Project Number:	700745.068.01	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: S-3 4' (H602171-15)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	09/30/2016	ND	400	100	400	3.92	

Sample ID: S-4 0' (H602171-16)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/30/2016	ND	400	100	400	3.92	

Sample ID: S-4 1' (H602171-17)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/30/2016	ND	400	100	400	3.92	

Sample ID: S-5 0' (H602171-18)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/30/2016	ND	400	100	400	3.92	

Sample ID: S-5 1' (H602171-19)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/30/2016	ND	400	100	400	3.92	

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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: 09/28/2016
Reported: 10/01/2016
Project Name: SKELLY ROAD RELEASE
Project Number: 700745.068.01
Project Location: NONE GIVEN

Sampling Date: 09/22/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Celey D. Keene

Sample ID: S-5 2' (H602171-20)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/30/2016	ND	400	100	400	3.92		

Sample ID: S-6 0' (H602171-21)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/30/2016	ND	400	100	400	3.92		

Sample ID: S-6 1' (H602171-22)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/30/2016	ND	400	100	400	3.92		

Sample ID: S-6 2' (H602171-23)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/30/2016	ND	400	100	400	3.92		

Sample ID: S-7 0' (H602171-24)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/30/2016	ND	400	100	400	3.92		

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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: 09/28/2016
Reported: 10/01/2016
Project Name: SKELLY ROAD RELEASE
Project Number: 700745.068.01
Project Location: NONE GIVEN

Sampling Date: 09/22/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Celey D. Keene

Sample ID: S-8 0' (H602171-25)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/30/2016	ND	400	100	400	3.92		

Sample ID: S-8 1' (H602171-26)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/30/2016	ND	400	100	400	3.92		

Sample ID: S-8 2' (H602171-27)

Chloride, SM4500Cl-B			mg/kg								Analyzed By: HM		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier				
Chloride	<16.0	16.0	09/30/2016	ND	416	104	400	3.92					

Sample ID: S-9 0' (H602171-28)

Chloride, SM4500Cl-B			mg/kg								Analyzed By: HM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier			
Chloride	<16.0	16.0	09/30/2016	ND	416	104	400	3.92				

Sample ID: S-9 1' (H602171-29)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/30/2016	ND	416	104	400	3.92		

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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: 09/28/2016
Reported: 10/01/2016
Project Name: SKELLY ROAD RELEASE
Project Number: 700745.068.01
Project Location: NONE GIVEN

Sampling Date: 09/22/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Celey D. Keene

Sample ID: S-9 2' (H602171-30)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/30/2016	ND	416	104	400	3.92		

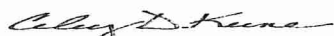
Sample ID: S-9 3' (H602171-31)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/30/2016	ND	416	104	400	3.92		

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

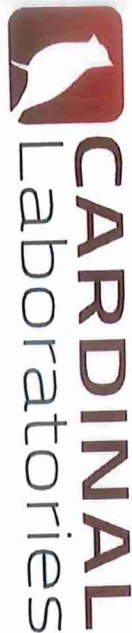
Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Talon/LPE

P.O. #:

Project Manager: D. Adkins

Company: Apache

Address: 408 W. Texas Ave.

Attn: Bruce Baker

City: Artesia

State: NM Zip: 88210

Address:

Phone #: 575-746-8768

Fax #: 575-746-8905

City:

Project #: 700745.068.01

Project Owner: Apache

State:

Project Name: Skelly Rd. Release

City:

Zip:

Project Location:

Phone #:

Sampler Name: K. Wilson

Fax #:

PRESERV. SAMPLING

DATE

TIME

Lab I.D.

Sample I.D.

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER: None

DATE

TIME

Chlorides

11

5-30'

G

1

12

5-31'

G

1

13

5-32'

G

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14

5-33'

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15

5-34'

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5-40'

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Talon/PE

Project Manager: D. Adkins

Address: 408 W. Texas Ave.

City: Artesia

Phone #: 575-746-8768

Project #: 700745.068.01

Project Name: Skelly Rd. Release

Project Location:

Sample Name: K. Wilson

FOR LAB USE ONLY

P.O. #:

Company: Apache

Attn: Bruce Baker

Address:

City:

State: Zip:

Phone #:

Fax #:

MATRIX

PRESERV

SAMPLING

Lab I.D.

Sample I.D.

H002171-

21

22

23

24

25

26

27

28

29

30

5-60'

5-61'

5-62'

5-70'

5-80'

5-81'

5-82'

5-90'

5-91'

5-92'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER: None

DATE

TIME

9/22/16

Chlorides

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Relinquished By:

Date: 9/22/16

Received By:

Sample Condition

CHECKED BY:

Phone Result:

Fax Result:

REMARKS:

Yes No Add'l Phone #:

Yes No Add'l Fax #:

Yes No Add'l Phone #:

Yes No Add'l Fax #:

Relinquished By:

Date: 9/22/16

Received By:

Sample Condition

CHECKED BY:

Phone Result:

Fax Result:

REMARKS:

Yes No Add'l Phone #:

Yes No Add'l Fax #:

Yes No Add'l Phone #:

Yes No Add'l Fax #:

Delivered By: (Circle One)

Date: 9/22/16

Received By:

Sample Condition

CHECKED BY:

Phone Result:

Fax Result:

REMARKS:

Yes No Add'l Phone #:

Yes No Add'l Fax #:

Yes No Add'l Phone #:

Yes No Add'l Fax #:

Sampler - UPS - Bus - Other:

Date: 9/22/16

Received By:

Sample Condition

CHECKED BY:

Phone Result:

Fax Result:

REMARKS:

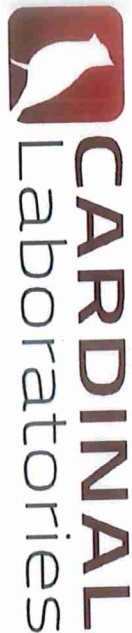
Yes No Add'l Phone #:

Yes No Add'l Fax #:

Yes No Add'l Phone #:

Yes No Add'l Fax #:

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Talon/LPE

Project Manager: D. Adkins

Address: 408 W. Texas Ave.

City: Artesia

Phone #: 575-746-8768

Project #: 700745.068.01

Project Name: Skelly Rd. Release

Project Location:

Sample Name: K. Wilson

FOR LAB USE ONLY

P.O. #:

Company: A Pacific

Attn: Burt Baker

Address:

City:

State: Zip:

Phone #:

Fax #:

Matrix

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER : None

DATE

TIME

DATE

TIME

Lab I.D.

Sample I.D.

H#02171-

31

5-43'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER : None

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

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Relinquished By:

Date: 9/22/16

Time:

Received By:

Date: 9/22/16

Time:

Relinquished By:

Date: 9/22/16

Time:

Relinquished By:

Date: 9/22/16

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Relinquished By:

Date: 9/22/16

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Received By:

Date: 9/22/16

Time:

Relinquished By:

Date: 9/22/16

Time:

Relinquished By:

Date: 9/22/16

Time:

Relinquished By:

Delivered By: (Circle One)

Date: 9/22/16

Time:

Received By:

Date: 9/22/16

Time:

Relinquished By:

Date: 9/22/16

Time:

Relinquished By:

Date: 9/22/16

Time:

Relinquished By:

Sampler - UPS - Bus - Other:

Date: 9/22/16

Time:

Received By:

Date: 9/22/16

Time:

Relinquished By:

Date: 9/22/16

Time:

Relinquished By:

Date: 9/22/16

Time:

Relinquished By:

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

November 03, 2016

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: SKELLY ROAD RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/28/16 14:10.

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,



Caley 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:	10/28/2016	Sampling Date:	10/18/2016
Reported:	11/03/2016	Sampling Type:	Soil
Project Name:	SKELLY ROAD RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700745.068.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-2 1' (H602425-01)

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	11/02/2016	ND	416	104	400	0.00	

Sample ID: S-2 3' (H602425-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	11/02/2016	ND	416	104	400	0.00	

Sample ID: S-2 5' (H602425-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	11/02/2016	ND	416	104	400	0.00	

Sample ID: S-2 7' (H602425-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1630	16.0	11/02/2016	ND	416	104	400	0.00	

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:	10/28/2016	Sampling Date:	10/18/2016
Reported:	11/03/2016	Sampling Type:	Soil
Project Name:	SKELLY ROAD RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700745.068.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-2 9' (H602425-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	11/02/2016	ND	416	104	400	0.00	QM-07

Sample ID: S-2 11' (H602425-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4260	16.0	11/02/2016	ND	416	104	400	0.00	

Sample ID: S-2 13' (H602425-07)

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	11/02/2016	ND	416	104	400	0.00	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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



CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Talon/LPE
Project Manager: D. Adkins

Address: 408 W. Texas Ave.

City: Artesia

Phone #: 575-746-8768

Project #:

Project Name: Skelly Road Release

Project Location:

Sampler Name: Sheldon Hitchcock

P.O. #:

Company: Apache

Attn: Bruce Baker

Address:

City:

State:

Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :												
1	S-2 1'	G	1							10/18/16	8:00	chlorides									
2	S-2 3'	G	1								8:02										
3	S-2 5'	G	1								8:04										
4	S-2 7'	G	1								8:15										
5	S-2 9'	G	1								8:20										
6	S-2 11'	G	1								8:25										
7	S-2 13'	G	1								8:30										

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Relinquished By:

Sheldon Hitchcock

Date: 10/18/16
Time: 2:10
Received By: Scott Henderson

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

26.40

Sample Condition
Cool ☐ Impact ☐
Yes ☒ No ☐

CHECKED BY: (initials)

Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #:
Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #:

REMARKS:

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

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