



**ROBERT W. RAUP**  
Supervisor HSE  
(539) 573-7314  
bob.raup@wpxenergy.com

October 30, 2019

New Mexico Oil Conservation Division  
1220 S. St. Francis Dr. #3  
Santa Fe, NM 87505

RE: Remediation and Closure Report – East Pecos Federal Com 22 #0006H  
API # 30-015-42281  
NMOCD Remediation Case # 2RP-4577

To whom this may concern:

WPX Energy Permian, LLC (WPX) is submitting the attached Remediation and Closure Report (Final Report) for a spill incident that occurred on December 31, 2017. The Final Report was initially submitted to the New Mexico Oil Conservation Division (NMOCD) – Artesia Office on December 14, 2018. WPX is awaiting a response from NMOCD regarding the Final Report's status.

The initial C-141 Notification, approved Soil Assessment and Remediation Work Plan, and NMOCD / WPX email chain are all located in the Well Files of the NMOCD website. WPX is requesting closure of this Final Report from NMOCD and is submitting through the online portal in hopes of expediting the process.

Please do not hesitate to contact me should you have any questions or comments.

Thank you,

A handwritten signature in black ink, appearing to read "Robert W. Raup II".

Robert W. Raup II  
HSE Supervisor  
WPX Energy Permian, LLC

Attachment: Talon LPE – Remediation and Closure Report

talonlpe.com • 866.742.0742



## **Remediation and Closure Report**

East Pecos Federal Com 22 #006H  
API # 30-015-42281 \* 2RP-4577  
Talon Project No. 702331.001.01

### **Prepared For:**

WPX Energy  
5315 Buena Vista Drive  
Carlsbad, New Mexico 88220

### **Prepared By:**

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

**November 30, 2018**

Mr. Mike Bratcher  
**NMOCD District 2**  
811 S. 1<sup>st</sup> Street  
Artesia, NM 88210

Subject:       **Remediation and Closure Report**  
East Pecos Federal Com 22 #006H  
API # 30-015-42281 \* 2RP-4577

Dear Mr. Bratcher,

WPX Energy (WPX) 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 East Pecos Federal Com 22 #006H is located approximately seventy-five (75) miles south of Artesia, New Mexico. The legal location for this release is Unit Letter B, Section 27, Township 26 South and Range 29 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.019925 North and -103.968057 West.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services (NRCS) the soil in this area is made up of Upton-Simona complex, 1 to 15 percent slopes, eroded. The local surface and shallow geology, Paleozoic Age sedimentary deposits, is comprised of the Upper Permian Group Quartermaster and Rustler formations, which are made up of residuum weathered limestone underlain by very gravelly loam and hard caliches. Drainage courses in this area are normally dry.

### **Ground Water and Site Ranking**

The New Mexico Office of the State Engineer database indicates there is no published groundwater information within 5,000 meters of the release area. However, according to the Chevron Texaco Groundwater Trend Map, the groundwater in this area is between 50 to 100 feet below ground surface.

Therefore the ranking for this site is a **10** based on the following:

Depth to ground water	50-100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

Based upon the site ranking of 10, NMOCD Recommended Remedial Action Levels (RRALs) at the time of this release were 50 mg/kg for BTEX, 10 mg/kg for Benzene, 1,000 mg/kg for TPH and 600 mg/kg Total Chlorides.

## Incident Description

On December 31, 2017, a valve failed resulting in the release of approximately 230 bbls of produced water. A vacuum truck was immediately called to the location and recovered 180 barrels of fluid. The GPS coordinates of 32.019925 N, -103.968057 W are the initial point of release. The produced water flowed down gradient to the south along the existing pipeline right-of-way approximately 1,050-feet. The fluid pooled at the end of the ROW in a low spot where the pipeline and lease road intersect. The release then flowed eastward along the pipeline for approximately 800-feet as represented on the attached site plan presented in [Appendix I](#). Site photographs are attached in [Appendix II](#).

## Remedial Actions

Talon mobilized personnel to conduct initial remediation activities and complete a site assessment. A remediation work plan was generated and subsequently approved by the New Mexico Oil Conservation Division (NMOCD).

Excavation activities were carried out in the impacted areas as described in the work plan. Field titrations for chlorides were continuously utilized to test the sidewalls of the excavation throughout the release area in order to guide the horizontal and vertical extent of the excavation. Once the field screening results indicated the chloride levels to be less than 600 mg/kg, confirmation samples were collected and sent for laboratory analysis.

The excavation was expanded as necessary, based on field and analytical results, until sidewall samples were shown to be less than 600 mg/kg by laboratory analysis. All excavated soil was transported to R360, a NMOCD approved solid waste facility. The bottom of the excavation was lined with a 20-mil liner where required (a 4-foot excavation with chlorides >600 mg/kg). NMOCD approval was obtained prior to backfill activities. Final excavation depths, sampling locations and liner areas are illustrated on the site plan.

Confirmation sampling results are presented in data tables, [Appendix IV](#), and the complete laboratory reports are attached in [Appendix V](#).

## Remediation Summary

- All remediation activities were completed pursuant to the approved work plan and additional NMOCD stipulations.
- All excavated soil was transported to R360 Waste Disposal Facility, a NMOCD approved solid waste disposal facility.
- Confirmation sidewall and bottom samples were collected at previously sampled locations along the north/south leg of the flow path.
- Confirmation sidewall and bottom samples were collected at 50' intervals along the east/west leg of the impacted area, as stipulated by NMOCD.



- Additional care was taken regarding the safety of field personnel during the excavation of the north/south flow path due to the presence of a high-pressure gas line (see site plan).
- 20-mil liners were installed in the vicinities of S-6 through S-9, S-11 through S-13, S-18 through S-19, S-23 and S-25 through S-26, as proposed in the work plan.
- All other areas impacted by this release were excavated to the specified depths outlined in the NMOCD approved work plan, or modified (generally expanded) based on analytical data obtained during remedial actions.
- The excavated area was backfilled with locally obtained top soil, contoured to match the local terrain and seeded using the recommended BLM seed mixture.

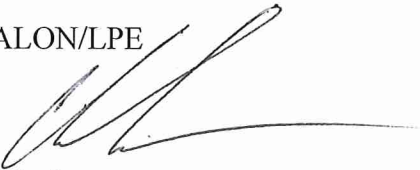
### Closure


On behalf of WPX Energy, we respectfully request that no further actions be required and that closure with respect to the release be granted. A Final C-141 is also attached. See [Appendix III](#).

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

  
Chris Jones  
Project Manager

  
David J. Adkins  
District Manager

### Attachments

Appendix I	Site Plan
Appendix II	Photographs
Appendix III	Final C-141
Appendix IV	Laboratory Data Tables
Appendix V	Laboratory Reports

## APPENDIX I

### SITE PLAN





WPX East Pecos 22-6  
Eddy County, NM  
Site Map



## APPENDIX II

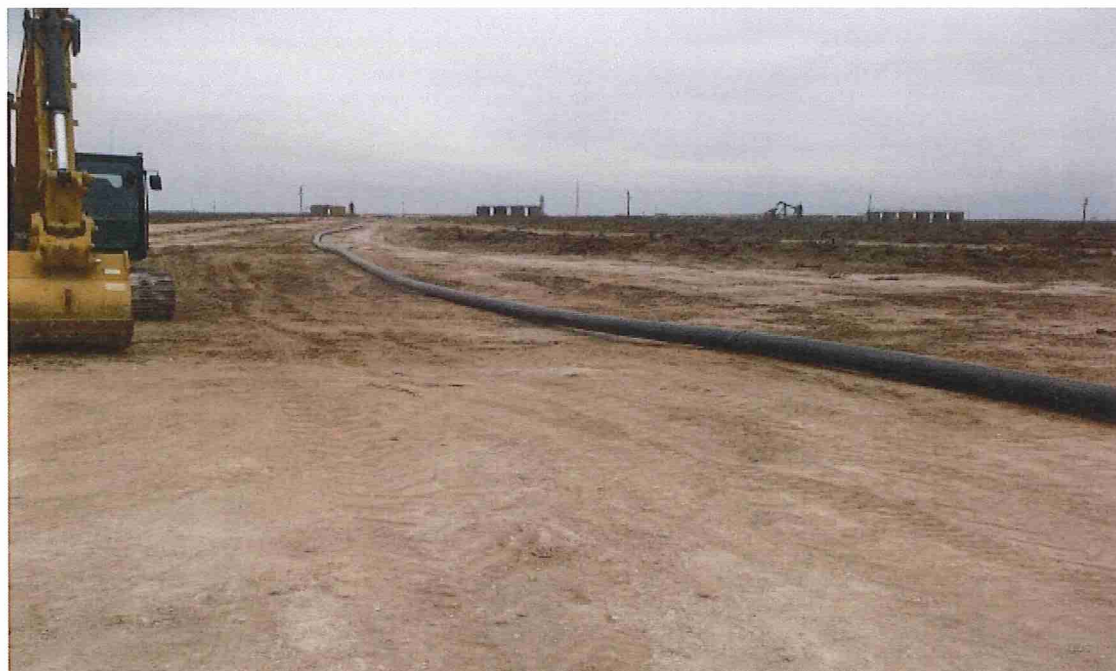
## PHOTOGRAPHS



## Initial Photos



Release Point facing southward



Flow path facing northward



Flow path westward view



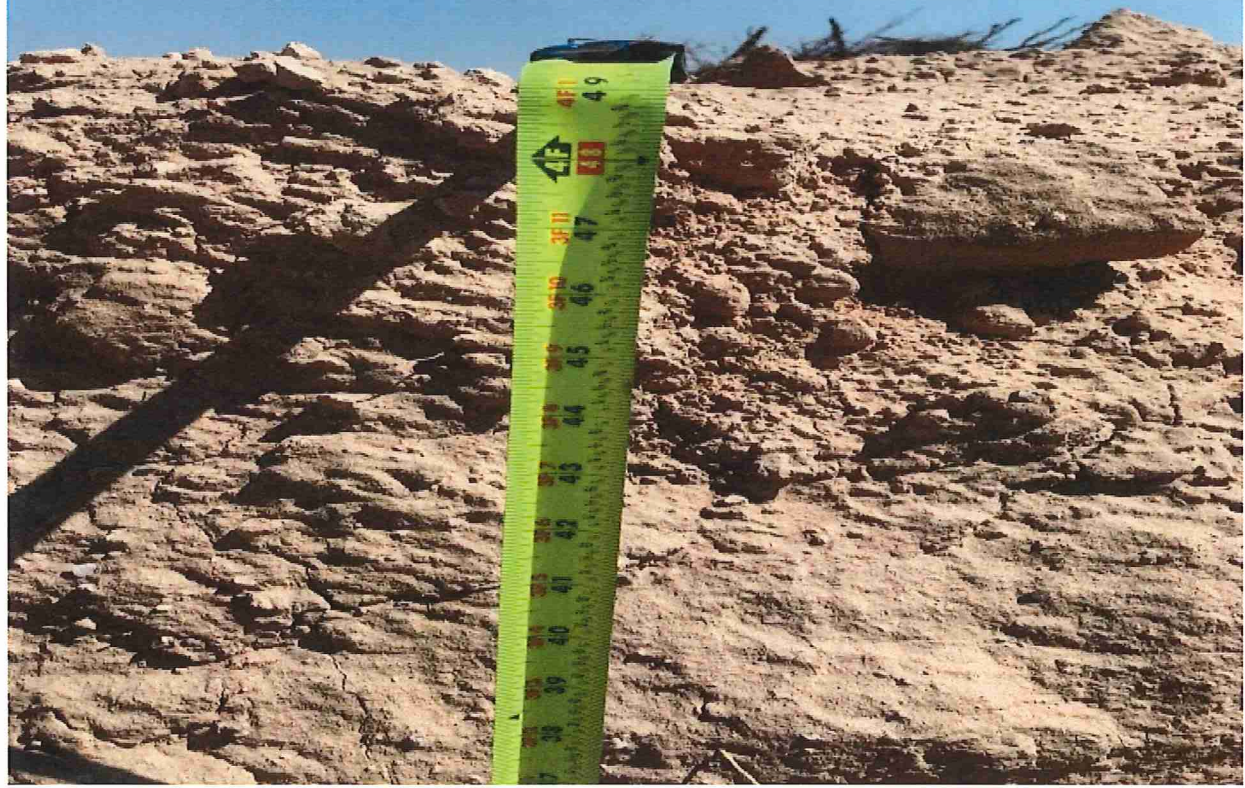
Flow path westward view



Excavation Photos





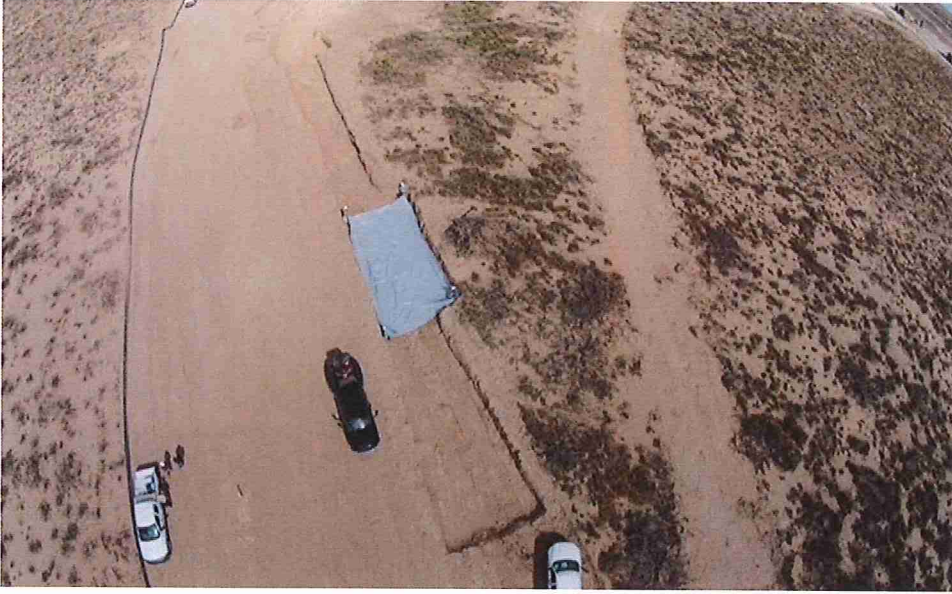
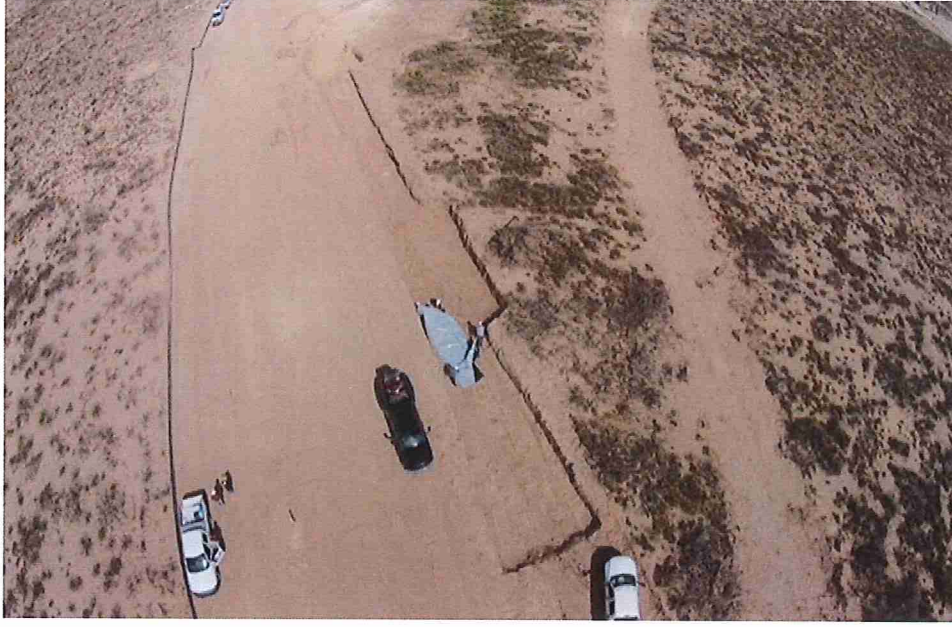




Liner Installation



## Drone Images







Backfilled Excavations



## APPENDIX III

### FINAL 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

Form C-141  
Revised April 3, 2017

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

## Release Notification and Corrective Action

### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	RKI Exploration/WPX Energy	Contact	James Raley
Address	5315 Buena Vista Dr., Carlsbad, NM 88220	Telephone No.	575-689-7597
Facility Name	Pecos Federal #001 Y	Facility Type	Production
Surface Owner	Federal	Mineral Owner	Federal
		API No.	30-015-24875

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	27	26S	29E	690'	FSL	660'	FEL	Eddy

Latitude 32.019996 N Longitude -103.967874 W NAD83

### NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	10 bbls	Volume Recovered	2 bbls
Source of Release	Pipeline Flange	Date and Hour of Occurrence	7/5/2018 @ 10:20AM	Date and Hour of Discovery	7/5/2018 @ 10:30 AM
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Artesia District I, NMOCD- Mike Bratcher/ Shelly Tucker		
By Whom?	Karolina Blaney	Date and Hour	7/5/2018 @ 3:05 PM		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	N/A		

If a Watercourse was Impacted, Describe Fully.\*

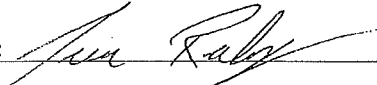

Describe Cause of Problem and Remedial Action Taken.\*

A flange on the pipeline header began to leak during a transfer of fluids. The line was isolated and the flange was tightened to stop the leak. A vac truck was dispatched and was able to recover 2 bbls of fluids.

Describe Area Affected and Cleanup Action Taken.\*

Spill occurred just off-site on pipeline ROW at app 32.019996, -103.967874. Fluids impacted area near header and flowed downhill onto private land. The landowner was contacted regarding the release. Talon/LPE carried out immediate response and excavation of the contaminated soil, samples were collected to confirm cleanup was complete and excavated area was backfilled with clean soil and was contoured to match the surrounding landscape. Excavation activities are completed and confirmation bottom and sidewall samples are in compliance with NMOCD RRAL's. A formal site characterization and closure report is attached. WPX Energy is respectfully requesting closure for this incident.

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>OIL CONSERVATION DIVISION</u>	
Printed Name: James Raley	Approved by Environmental Specialist: 	
Title: Environmental Specialist	Approval Date: 06/11/3021	Expiration Date:
E-mail Address: james.ralej@wpxenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 8/30/18	Phone: 575-689-7597	

\* Attach Additional Sheets If Necessary

## APPENDIX IV

### LABORATORY DATA TABLES

## WPX Energy East Pecos 22-6

Sample Date: 5/25/18			
Sample ID	Depth (feet)	Chlorides (mg/kg)	Notes
S-6	2.5	5100	
S-9	4	460	
S-9	4 East Sidewall	ND	
S-9	4 West Sidewall	ND	
S-26	4	ND	
S-24	2.5	ND	
(ND)-Not Detected; (-)-Analyte not sampled			
Sample Date: 5/30/18			
Sample ID	Depth (feet)	Chlorides (mg/kg)	
S-21	2	ND	
S-22	2.5	140	
S-23	4	4000	
S-23	5	340	
S-25	4	5600	
S-25	5	230	
(ND)-Not Detected; (-)-Analyte not sampled			
Sample Date: 5/31/18			
Sample ID	Depth (feet)	Chlorides (mg/kg)	
S-18A	14	310	S-18 further vertical delineation
S-18A	16	130	samples from work plan
S-18A	18	ND	
S-14A	14	300	S-14 further vertical delineation
S-14A	15	370	samples from work plan
C-1A	14	4400	C-1 further vertical delineation
C-1A	16	580	samples from work plan
C-1A	18	240	
S-17	2	ND	
S-17	2 South Sidewall	77	
S-17	2 North Sidewall	390	
S-18	2	750	
S-18	2 South Sidewall	300	
S-18	2 North Sidewall	190	

Sample ID	Depth (feet)	Chlorides (mg/kg)	
S-19	3.5	1000	
S-19	2 North Sidewall	1500	
S-19	2 South Sidewall	520	
S-20	3.5	46	
S-20	3.5 North Sidewall	ND	
S-20	3.5 South Sidewall	ND	
S-21	2 North Sidewall	190	
S-21	2 South Sidewall	620	
S-22	2.5 North Sidewall	250	
S-22	2.5 South Sidewall	ND	
S-23	4 North Sidewall	ND	
S-23	4 South Sidewall	2800	
S-24	2.5 North Sidewall	ND	
S-24	2.5 South Sidewall	ND	
S-25	4 North Sidewall	110	
S-25	4 South Sidewall	ND	
S-26	4 North Sidewall	81	
S-26	4South Sidewall	ND	
(ND)-Not Detected; (-)-Analyte not sampled			
Sample Date: 6/6/18			
Sample ID	Depth (feet)	Chlorides (mg/kg)	
S-1	4.5 North Sidewall	730	
S-1	4.5 East Sidewall	1000	
S-1	4.5 West Sidewall	420	
S-2	3.5 East Sidewall	560	
S-2	3.5 West Sidewall	960	
S-3	3.5 West Sidewall	350	
S-4	4.5	190	
S-4	4.5 East Sidewall	810	
S-5	3.5	320	
S-5	3.5 East Sidewall	650	
S-5	3.5 West Sidewall	820	



Sample ID	Depth (feet)	Chlorides (mg/kg)	
S-8	4 West Sidewall	450	
S-10	3.5	340	
S-10	3.5 East Sidewall	790	
S-10	3.5 West Sidewall	220	
S-11	4	590	
S-11	4 East Sidewall	290	
S-11	4 West Sidewall	300	
S-12	3.5	840	
S-12	3.5 East Sidewall	ND	
S-12	3.5 West Sidewall	ND	
S-13	4	1000	
S-13	4 East Sidewall	2100	
S-13	4 West Sidewall	710	
S-14	2	ND	
S-15	2	880	
S-16	2	940	
Sample Date: 6/29/18			
Sample ID	Depth (feet)	Chlorides (mg/kg)	
S-1	4.5 East Sidewall	560	
S-3	3.5 East Sidewall	512	
S-4	4.5 East Sidewall	592	
S-4	4.5 West Sidewall	480	
S-5	3.5	496	
S-5	3.5 West Sidewall	336	
S-6	6	368	
S-6	7	464	
S-6	4 West Sidewall	256	
S-7	4 West Sidewall	96	
S-8	4 East Sidewall	128	
S-8	4 West Sidewall	416	

Sample ID	Depth (feet)	Chlorides (mg/kg)	
S-10	3.5 East Sidewall	224	
S-14	2.5	32	
S-14	2.5 East Sidewall	96	
S-14	2.5 West Sidewall	32	
S-15	2.5	32	
S-15	2.5 East Sidewall	560	
S-15	2.5 West Sidewall	64	
S-16	2.5	32	
S-16	2.5 North Sidewall	80	
S-16	2.5 South Sidewall	1760	
S-18	5	1180	
S-18	7	1220	
S-18	10	32	
Sample ID **	Depth (feet)	Chlorides (mg/kg)	
1-1A-1	0.5	272	Lab identification error from COC
1-1A-2	0.5	144	Hand Auger sample locations
**Hand Auger samples HA-1 and HA-2.			
Sample Date: 7/11/18			
Sample ID	Depth (feet)	Chlorides (mg/kg)	
S-2	3.5 West Sidewall	208	
S-16	2.5 South Sidewall	96	
(ND)-Not Detected; (-)-Analyte not sampled			

## APPENDIX V

### LABORATORY REPORTS





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

June 11, 2018

David Adkins  
Talon Artesia  
408 West Texas Ave  
Artesia, NM 88210  
TEL: (806) 467-0607  
FAX (806) 467-0622

RE: East Pecos 22

OrderNo.: 1805F95

Dear David Adkins:

Hall Environmental Analysis Laboratory received 6 sample(s) on 5/31/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order: 1805F95

Date Reported: 6/11/2018

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Talon Artesia  
**Project:** East Pecos 22

**Lab Order:** 1805F95

**Lab ID:** 1805F95-001

**Collection Date:** 5/25/2018 11:05:00 AM

**Client Sample ID:** S-6 2.5'

**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							
Chloride	5100	300		mg/Kg	200	6/7/2018 3:04:37 PM	38484

Analyst: MRA

**Lab ID:** 1805F95-002

**Collection Date:** 5/25/2018 11:30:00 AM

**Client Sample ID:** S-9 4'

**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							
Chloride	460	30		mg/Kg	20	6/5/2018 5:06:14 PM	38484

Analyst: MRA

**Lab ID:** 1805F95-003

**Collection Date:** 5/25/2018 11:32:00 AM

**Client Sample ID:** S-9 East Sidewall

**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							
Chloride	ND	30		mg/Kg	20	6/5/2018 5:18:39 PM	38484

Analyst: MRA

**Lab ID:** 1805F95-004

**Collection Date:** 5/25/2018 11:34:00 AM

**Client Sample ID:** S-9 West Sidewall

**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							
Chloride	ND	30		mg/Kg	20	6/5/2018 5:31:04 PM	38484

Analyst: MRA

**Lab ID:** 1805F95-005

**Collection Date:** 5/25/2018 12:00:00 PM

**Client Sample ID:** S-26 4'

**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							
Chloride	ND	30		mg/Kg	20	6/5/2018 5:43:29 PM	38484

Analyst: MRA

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	Page 1 of 3
	D Sample Diluted Due to Matrix	E Value above quantitation range	
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
	PQL Practical Quantitative Limit	RL Reporting Detection Limit	

# Hall Environmental Analysis Laboratory, Inc.

**Analytical Report**  
 Lab Order: 1805F95  
 Date Reported: 6/11/2018

<b>CLIENT:</b>	Talon Artesia	<b>Lab Order:</b>	1805F95
<b>Project:</b>	East Pecos 22		
<b>Lab ID:</b>	1805F95-006	<b>Collection Date:</b>	5/25/2018 12:30:00 PM
<b>Client Sample ID:</b>	S-24 2.5'	<b>Matrix:</b>	SOIL
<b>Analyses</b>	<b>Result</b>	<b>PQL</b>	<b>Qual Units DF Date Analyzed Batch ID</b>
<b>EPA METHOD 300.0: ANIONS</b>			
Chloride	ND	30	mg/Kg 20 6/5/2018 6:20:42 PM 38484
			Analyst: MRA

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	
	D Sample Diluted Due to Matrix	E Value above quantitation range	
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
	PQL Practical Quantitative Limit	RL Reporting Detection Limit	



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1805F95

11-Jun-18

Client: Talon Artesia

Project: East Pecos 22

Sample ID	MB-38484	SampType:	mbk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	38484	RunNo:	51782					
Prep Date:	6/5/2018	Analysis Date:	6/5/2018	SeqNo:	1690475	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-38484	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	38484	RunNo:	51782					
Prep Date:	6/5/2018	Analysis Date:	6/5/2018	SeqNo:	1690476	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.8	90	110			

## Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank           |
| D Sample Diluted Due to Matrix                          | E Value above quantitation range                            |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits                |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                                    |
| PQL Practical Quantitative Limit                        | RL Reporting Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: Talon LPE

Work Order Number: 1805F95

RcptNo: 1

Received By: Jazzmine Burkhead 5/31/2018 9:50:00 AM

Completed By: Erin Melendrez 5/31/2018 11:11:14 AM

Reviewed By: LB: [Signature] 5/31/18

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

### Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☐ No ☒ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐ # of preserved bottles checked for pH: \_\_\_\_\_  
( $<2$  or  $>12$  unless noted)
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐ Adjusted? \_\_\_\_\_
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐ Checked by: \_\_\_\_\_

### Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
By Whom: \_\_\_\_\_ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
Regarding: \_\_\_\_\_  
Client Instructions: \_\_\_\_\_

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	9.6	Good	Yes			

## Chain-of-Custody Record

Client: Talon LPEMailing Address: 408 W. Texas Ave.Artesia, NMPhone #: 505-746-8468email or Fax#: dadkins@talonalpe.com  
(all Talon Rpts)QA/QC Package: ☐ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other☐ EDD (Type)

Date Time Matrix Sample Request ID

5-25-18	1105	soil	5-6 2.5'	
	1130		5-9 4'	
	1132		5-9 Gorse Sidewall	
	1134		5-9 West Sidewall	
	1200		5-26 4'	
	1230		5-24 2.5'	

Turn-Around Time: 5 day turn @ 10:00 AM  
☒ Standard ☒ RushProject Name: East Pecos 22Project #: 402331.001.01Project Manager: David DadkinsSampler: J. Byrd  
dadkins@talonalpe.comOn Ice: ☒ Yes ☐ NoSample Temperature: 10.1 - 5 (GF) = 9.6

Container Type and #

Preservative Type

HEAL No.

Soil 1	None	-001
		-002
		-003
		-004
		-005
		-006

## Analysis Request

BTEX + MTBE + TMBs (8021)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCBs	8260B (VOA)	8270 (Semi-VOA)	Chlorides EPA300	Air Hydrocarbons (V or M)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Date: <u>5/20/18</u>	Time: <u>1035</u>	Relinquished by: <u>[Signature]</u>	Date: <u>5/20/18</u>	Time: <u>1035</u>	Remarks: <u>delete organics</u>
Date: <u>5/20/18</u>	Time: <u>1900</u>	Relinquished by: <u>[Signature]</u>	Date: <u>5/20/18</u>	Time: <u>1900</u>	<u>No extra charge for 4 day turn</u>

If necessary, samples submitted to Hall Environmental may be subject to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

June 11, 2018

David Adkins

Talon LPE

408 West Texas Ave

Artesia, NM 88210

TEL: (806) 467-0607

FAX (806) 467-0622

RE: East Pecos 22

OrderNo.: 1806016

Dear David Adkins:

Hall Environmental Analysis Laboratory received 6 sample(s) on 6/1/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order: 1806016

Date Reported: 6/11/2018

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon LPE Lab Order: 1806016  
 Project: East Pecos 22

Lab ID: 1806016-001 Collection Date: 5/30/2018 1:00:00 PM

Client Sample ID: S-21 2' Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	ND	30		mg/Kg	20	6/6/2018 1:54:57 PM	38514
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Lab ID: 1806016-002 Collection Date: 5/30/2018 1:05:00 PM

Client Sample ID: S-22 2.5' Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	140	30		mg/Kg	20	6/6/2018 2:32:11 PM	38514
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Lab ID: 1806016-003 Collection Date: 5/30/2018 1:10:00 PM

Client Sample ID: S-23 4' Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	4000	150		mg/Kg	100	6/8/2018 9:07:21 AM	38514
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Lab ID: 1806016-004 Collection Date: 5/30/2018 1:12:00 PM

Client Sample ID: S-23 5' Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	340	30		mg/Kg	20	6/6/2018 3:21:48 PM	38514
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Lab ID: 1806016-005 Collection Date: 5/30/2018 1:20:00 PM

Client Sample ID: S-25 4' Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	5600	300		mg/Kg	200	6/8/2018 9:19:45 AM	38514
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Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	Page 1 of 3
	D Sample Diluted Due to Matrix	E Value above quantitation range	
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
	PQL Practical Quantitative Limit	RL Reporting Detection Limit	

Analytical Report

Lab Order: 1806016

Date Reported: 6/11/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon LPE Lab Order: 1806016  
Project: East Pecos 22

Lab ID: 1806016-006 Collection Date: 5/30/2018 1:24:00 PM  
Client Sample ID: S-25 5' Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	230	30		mg/Kg	20	6/6/2018 3:46:38 PM	38514

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	Page 2 of 3
	D Sample Diluted Due to Matrix	E Value above quantitation range	
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
	PQL Practical Quantitative Limit	RL Reporting Detection Limit	



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1806016

11-Jun-18

Client: Talon LPE  
Project: East Pecos 22

Sample ID	MB-38514	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	38514	RunNo:	51801					
Prep Date:	6/6/2018	Analysis Date:	6/6/2018	SeqNo:	1691640	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-38514	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	38514	RunNo:	51801					
Prep Date:	6/6/2018	Analysis Date:	6/6/2018	SeqNo:	1691641	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.2	90	110			

## Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank           |
| D Sample Diluted Due to Matrix                          | E Value above quantitation range                            |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits                |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                                    |
| PQL Practical Quantitative Limit                        | RL Reporting Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |



Hall Environmental Analysis Laboratory  
 3901 Hawkins NE  
 Albuquerque, NM 87109  
 TEL: 505-345-2975 FAX: 505-345-4107  
 Website: www.hallenvironmental.com

# Sample Log-In Check List

Client Name: TALON ARTESIA Work Order Number: 1806016 Root No: 1

Received By: Jazzmine Burkhead 6/1/2018 9:50:00 AM

Completed By: Erin Melendrez 6/1/2018 10:52:57 AM

Reviewed By: ENM 6/1/18

LB: JB

## Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

## Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐ # of preserved bottles checked for pH: 6/1/18 (2 or 12 unless noted)
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐ Adjusted? ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization) Yes ☒ No ☐ Checked by: ☐

## Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

16. Additional remarks:

## 17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.8	Good	Yes			

# Chain-of-Custody Record

Client: Taken LPE

### Turn-Around Time:

☐ Standard ☒ Rush

Project Name:

Mailing Address: 408 W. Texas Ave.

Artesia, NM 88210

Phone #: 575-746-8768

email or Fax#: cdadkins@tulaneboe.com

QAC Package:

☐ Standard

☐ Level 4 (Full Validation)

## Accreditation

☐ Other

EDD (Type)

Date	Time	Matrix	Sample Request ID
------	------	--------	-------------------

1300	671	71
------	-----	----

1	13	1	1105	501	561	2
1	13	1	1105	501	561	2

5.7	77.5	5031
-----	------	------

1310	S-25 4/1
------	----------

1312	5.23	5
------	------	---

1220	5-22	4/1
------	------	-----

76.3	1970
76.3	1971

1287	343	2
------	-----	---

Date: \_\_\_\_\_ Time: \_\_\_\_\_

28

20	27/10	Page:	Date:
----	-------	-------	-------

DATE \_\_\_\_\_ TIME \_\_\_\_\_

8/15/92

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report.



**HALL ENVIRONMENTAL  
ANALYSIS LABORATORY**

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque. NM 87109

Tel. 505-345-3975 Fax 505-345-4107

## Analysis Request

[illegible]





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

June 18, 2018

David Adkins  
Talon LPE  
408 West Texas Ave  
Artesia, NM 88210  
TEL:  
FAX

RE: East Pecos 22

OrderNo.: 1806162

Dear David Adkins:

Hall Environmental Analysis Laboratory received 32 sample(s) on 6/5/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order: 1806162

Date Reported: 6/18/2018

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Talon LPE **Lab Order:** 1806162  
**Project:** East Pecos 22

**Lab ID:** 1806162-001 **Collection Date:** 5/31/2018 9:40:00 AM

**Client Sample ID:** S-18A 14' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: smb

Chloride	310	30		mg/Kg	20	6/9/2018 10:40:20 AM	38584
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**Lab ID:** 1806162-002 **Collection Date:** 5/31/2018 9:50:00 AM

**Client Sample ID:** S-18A 16' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: smb

Chloride	130	30		mg/Kg	20	6/9/2018 11:17:35 AM	38584
----------	-----	----	--	-------	----	----------------------	-------

**Lab ID:** 1806162-003 **Collection Date:** 5/31/2018 10:00:00 AM

**Client Sample ID:** S-18A 18' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: smb

Chloride	ND	30		mg/Kg	20	6/9/2018 11:29:59 AM	38584
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**Lab ID:** 1806162-004 **Collection Date:** 5/31/2018 10:50:00 AM

**Client Sample ID:** S-14A 14' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: smb

Chloride	300	30		mg/Kg	20	6/9/2018 11:42:24 AM	38584
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**Lab ID:** 1806162-005 **Collection Date:** 5/31/2018 11:00:00 AM

**Client Sample ID:** S-14A 15' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: smb

Chloride	370	30		mg/Kg	20	6/9/2018 11:54:49 AM	38584
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Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	Page 1 of 8
	D Sample Diluted Due to Matrix	E Value above quantitation range	
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
	PQL Practical Quantitative Limit	RL Reporting Detection Limit	

## Analytical Report

Lab Order: 1806162

Date Reported: 6/18/2018

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Talon LPE **Lab Order:** 1806162  
**Project:** East Pecos 22

**Lab ID:** 1806162-006 **Collection Date:** 5/31/2018 11:50:00 AM

**Client Sample ID:** C-1A 14' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: JRR

Chloride	4400	150		mg/Kg	100	6/11/2018 5:24:03 PM	38584
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**Lab ID:** 1806162-007 **Collection Date:** 5/31/2018 12:00:00 PM

**Client Sample ID:** C-1A 16' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: smb

Chloride	580	30		mg/Kg	20	6/9/2018 1:09:15 PM	38584
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**Lab ID:** 1806162-008 **Collection Date:** 5/31/2018 12:15:00 PM

**Client Sample ID:** C-1A 18' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: smb

Chloride	240	30		mg/Kg	20	6/9/2018 1:21:40 PM	38584
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**Lab ID:** 1806162-009 **Collection Date:** 6/1/2018 8:00:00 AM

**Client Sample ID:** S-17 2.0' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: smb

Chloride	ND	30		mg/Kg	20	6/9/2018 1:34:04 PM	38584
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**Lab ID:** 1806162-010 **Collection Date:** 6/1/2018 8:02:00 AM

**Client Sample ID:** S-17 South Sidewall 2.0' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: smb

Chloride	77	30		mg/Kg	20	6/9/2018 1:46:29 PM	38584
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Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	
	D Sample Diluted Due to Matrix	E Value above quantitation range	
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	Page 2 of 8
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
	PQL Practical Quantitative Limit	RL Reporting Detection Limit	



## Analytical Report

Lab Order: 1806162

Date Reported: 6/18/2018

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon LPE Lab Order: 1806162  
 Project: East Pecos 22

Lab ID: 1806162-011 Collection Date: 6/1/2018 8:04:00 AM

Client Sample ID: S-17 North Sidewall 2.0' Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: smb							
Chloride	390	30		mg/Kg	20	6/9/2018 1:58:53 PM	38584

Lab ID: 1806162-012 Collection Date: 6/1/2018 8:06:00 AM

Client Sample ID: S-18 2.0' Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: smb							
Chloride	750	30		mg/Kg	20	6/9/2018 2:11:17 PM	38584

Lab ID: 1806162-013 Collection Date: 6/1/2018 8:08:00 AM

Client Sample ID: S-18 North Sidewall 2.0' Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: smb							
Chloride	190	30		mg/Kg	20	6/9/2018 2:23:41 PM	38584

Lab ID: 1806162-014 Collection Date: 6/1/2018 8:10:00 AM

Client Sample ID: S-18 South Sidewall 2.0' Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: smb							
Chloride	300	30		mg/Kg	20	6/9/2018 2:36:06 PM	38584

Lab ID: 1806162-015 Collection Date: 6/1/2018 8:12:00 AM

Client Sample ID: S-19 3.5' Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: smb							
Chloride	1000	30		mg/Kg	20	6/9/2018 3:13:18 PM	38584

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	Page 3 of 8
	D Sample Diluted Due to Matrix	E Value above quantitation range	
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
	PQL Practical Quantitative Limit	RL Reporting Detection Limit	

## Analytical Report

Lab Order: 1806162

Date Reported: 6/18/2018

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon LPE

Lab Order: 1806162

Project: East Pecos 22

Lab ID: 1806162-016

Collection Date: 6/1/2018 8:14:00 AM

Client Sample ID: S-19 North Sidewall 3.5'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	-----	------	-------	----	---------------	----------

## EPA METHOD 300.0: ANIONS

Analyst: JRR

Chloride

1500

75

mg/Kg

50

6/11/2018 5:36:28 PM

38584

Lab ID: 1806162-017

Collection Date: 6/1/2018 8:16:00 AM

Client Sample ID: S-19 South Sidewall 3.5'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	-----	------	-------	----	---------------	----------

## EPA METHOD 300.0: ANIONS

Analyst: smb

Chloride

520

30

mg/Kg

20

6/9/2018 3:38:08 PM

38584

Lab ID: 1806162-018

Collection Date: 6/1/2018 8:18:00 AM

Client Sample ID: S-20 3.5'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	-----	------	-------	----	---------------	----------

## EPA METHOD 300.0: ANIONS

Analyst: smb

Chloride

46

30

mg/Kg

20

6/9/2018 3:50:32 PM

38584

Lab ID: 1806162-019

Collection Date: 6/1/2018 8:20:00 AM

Client Sample ID: S-20 North Sidewall 3.5'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: smb

Chloride

ND

30

mg/Kg

20

6/9/2018 4:02:57 PM

38584

Lab ID: 1806162-020

Collection Date: 6/1/2018 8:22:00 AM

Client Sample ID: S-20 South Sidewall 3.5'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	-----	------	-------	----	---------------	----------

## EPA METHOD 300.0: ANIONS

Analyst: smb

Chloride

ND

30

mg/Kg

20

6/9/2018 4:15:22 PM

38584

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 4 of 8

## Analytical Report

Lab Order: 1806162

Date Reported: 6/18/2018

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Talon LPE **Lab Order:** 1806162  
**Project:** East Pecos 22

**Lab ID:** 1806162-021 **Collection Date:** 6/1/2018 8:24:00 AM

**Client Sample ID:** S-21 North Sidewall 2' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	-----	------	-------	----	---------------	----------

## EPA METHOD 300.0: ANIONS

Analyst: JRR

Chloride	190	30		mg/Kg	20	6/11/2018 9:44:57 AM	38593
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**Lab ID:** 1806162-022 **Collection Date:** 6/1/2018 8:26:00 AM

**Client Sample ID:** S-21 South Sidewall 2' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: JRR

Chloride	620	30		mg/Kg	20	6/11/2018 10:22:10 AM	38593
----------	-----	----	--	-------	----	-----------------------	-------

**Lab ID:** 1806162-023 **Collection Date:** 6/1/2018 8:28:00 AM

**Client Sample ID:** S-22 North Sidewall 2.5' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	-----	------	-------	----	---------------	----------

## EPA METHOD 300.0: ANIONS

Analyst: JRR

Chloride	250	30		mg/Kg	20	6/11/2018 10:34:35 AM	38593
----------	-----	----	--	-------	----	-----------------------	-------

**Lab ID:** 1806162-024 **Collection Date:** 6/1/2018 8:30:00 AM

**Client Sample ID:** S-22 South Sidewall 2.5' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	-----	------	-------	----	---------------	----------

## EPA METHOD 300.0: ANIONS

Analyst: JRR

Chloride	ND	30		mg/Kg	20	6/11/2018 10:46:59 AM	38593
----------	----	----	--	-------	----	-----------------------	-------

**Lab ID:** 1806162-025 **Collection Date:** 6/1/2018 8:32:00 AM

**Client Sample ID:** S-23 North Sidewall 4' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	-----	------	-------	----	---------------	----------

## EPA METHOD 300.0: ANIONS

Analyst: JRR

Chloride	ND	30		mg/Kg	20	6/11/2018 11:49:02 AM	38593
----------	----	----	--	-------	----	-----------------------	-------

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	Page 5 of 8
	D Sample Diluted Due to Matrix	E Value above quantitation range	
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
	PQL Practical Quantitative Limit	RL Reporting Detection Limit	



## Analytical Report

Lab Order: 1806162

Date Reported: 6/18/2018

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon LPE Lab Order: 1806162  
 Project: East Pecos 22

Lab ID: 1806162-026 Collection Date: 6/1/2018 8:34:00 AM  
 Client Sample ID: S-23 South Sidewall 4' Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS Analyst: MRA  
 Chloride 2800 150 mg/Kg 100 6/12/2018 1:44:35 PM 38593

Lab ID: 1806162-027 Collection Date: 6/1/2018 8:36:00 AM  
 Client Sample ID: S-24 North Sidewall 2.5' Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS Analyst: JRR  
 Chloride ND 30 mg/Kg 20 6/11/2018 12:13:52 PM 38593

Lab ID: 1806162-028 Collection Date: 6/1/2018 8:38:00 AM  
 Client Sample ID: S-24 South Sidewall 2.5' Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS Analyst: JRR  
 Chloride ND 30 mg/Kg 20 6/11/2018 12:26:17 PM 38593

Lab ID: 1806162-029 Collection Date: 6/1/2018 8:40:00 AM  
 Client Sample ID: S-25 North Sidewall 4' Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS Analyst: JRR  
 Chloride 110 30 mg/Kg 20 6/11/2018 12:38:41 PM 38593

Lab ID: 1806162-030 Collection Date: 6/1/2018 8:42:00 AM  
 Client Sample ID: S-25 South Sidewall 4' Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	-----	------	-------	----	---------------	----------

EPA METHOD 300.0: ANIONS Analyst: JRR  
 Chloride ND 30 mg/Kg 20 6/11/2018 12:51:06 PM 38593

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	Page 6 of 8
	D Sample Diluted Due to Matrix	E Value above quantitation range	
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
	PQL Practical Quantitative Limit	RL Reporting Detection Limit	

Analytical Report

Lab Order: 1806162

Date Reported: 6/18/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon LPE Lab Order: 1806162  
Project: East Pecos 22

Lab ID: 1806162-031 Collection Date: 6/1/2018 8:46:00 AM  
Client Sample ID: S-26 South Sidewall 4' Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: JRR							
Chloride	ND	30		mg/Kg	20	6/11/2018 1:03:30 PM	38593

Lab ID: 1806162-032 Collection Date: 6/1/2018 8:44:00 AM  
Client Sample ID: S-26 North Sidewall 4' Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: JRR							
Chloride	81	30		mg/Kg	20	6/11/2018 1:15:54 PM	38593

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	Page 7 of 8
	D Sample Diluted Due to Matrix	E Value above quantitation range	
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
	PQL Practical Quantitative Limit	RL Reporting Detection Limit	

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1806162

18-Jun-18

Client: Talon LPE  
Project: East Pecos 22

Sample ID	MB-38584	SampType:	mbk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	38584	RunNo:	51845					
Prep Date:	6/8/2018	Analysis Date:	6/9/2018	SeqNo:	1693288	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-38584	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	38584	RunNo:	51845					
Prep Date:	6/8/2018	Analysis Date:	6/9/2018	SeqNo:	1693289	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.0	90	110			

Sample ID	MB-38593	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	38593	RunNo:	51896					
Prep Date:	6/11/2018	Analysis Date:	6/11/2018	SeqNo:	1695754	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-38593	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	38593	RunNo:	51896					
Prep Date:	6/11/2018	Analysis Date:	6/11/2018	SeqNo:	1695755	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.6	90	110			

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified

Page 8 of 8



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: TALON ARTESIA

Work Order Number: 1806162

RcptNo: 1

Received By: Jazzmine Burkhead 6/5/2018 9:45:00 AM

Completed By: Erin Meléndrez 6/5/2018 11:47:01 AM

Reviewed By: *LB, mw 6/5/18*

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐  
2. How was the sample delivered? Courier

### Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
5. Sample(s) in proper container(s)? Yes ☒ No ☐  
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒  
10. Were any sample containers received broken? Yes ☐ No ☒  
11. Does paperwork match bottle labels? Yes ☒ No ☐  
(Note discrepancies on chain of custody)  
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
13. Is it clear what analyses were requested? Yes ☒ No ☐  
14. Were all holding times able to be met? Yes ☒ No ☐  
(If no, notify customer for authorization.)

# of preserved bottles checked for pH: mw 6/5/18  
( $<2$  or  $>12$  unless noted)

Adjusted? \_\_\_\_\_  
Checked by: \_\_\_\_\_

### Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.9	Good	Yes			



# Chain-of-Custody Record

Client: Talon LPE

Turn-Around Time:  
☐ Standard  
☒ Rush

Mailing Address: 408 W. Texas Ave.

Project Name: East Pecos Rd

Antesia, NM 88210

Project #:

Phone #: 575-746-8768

7023331.001.01

email or Fax#: dadkins@talence.com

Project Manager:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other

Sampler: J. Baird

On Ice: ☒ Yes ☐ No

☐ EDD (Type)

Sample Temperature: 5.9

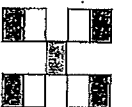
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chlorides EPA 300
5-31-18	0940	soil	5-18A 14'	Sar 1	none	1806102-001												
	0950		5-18A 16'			-002												
	1000		5-18A 18'			-003												
	1050		5-14A 14'			-004												
	1100		5-14A 15'			-005												
	1150		C-1A 14'			-006												
	1200		C-1A 16'			-007												
5-31-18	1215		5-1A 18'			-008												
6-1-18	0800		5-17 2.0'			-009												
	0802		5-17 south sidewalk 12.0'			-010												
	0804		5-17 North Sidewalk 11 2.0'			-011												
	0806		5-18 2.0'			-012												
	0808		5-18 south sidewalk 2.0'			-013												

Remarks:

Date: 6/4/18 Time: 1030 Relinquished by: [Signature]

Received by: [Signature] Date: 6/4/18 Time: 1030

Received by: [Signature] Date: 6/10/18 Time: 0945



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

If necessary, samples submitted to Hall Environmental may be subject to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

# Chain-of-Custody Record

Client: Talon LPE

Mailing Address: 408 W. Texas Ave.

Phone #: 575-746-8768

email or Fax#: dcdkins@talonlpe.com

QA/QC Package: ☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ NELAP ☐ Other

EDD (Type)

Turn-Around Time: 4 day rush @ no extra charge

☐ Standard ☒ Rush

Project Name: East Pecos 32

Project #:

Project Manager: D. Calkins

Sampler: J. Baird

On Ice: ☒ Yes ☐ No

Sample Temperature: 5.9

Container Type and #

Preservative Type

HEAL No.

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
6/11/18	0810	soil	518 South sidewalk 2.5'	Sar 1	None	-014
	0813		519 3.5'			-015
	0814		519 North sidewalk 3.5'			-016
	0815		519 South sidewalk 3.5'			-017
	0816		520 3.5'			-018
	0820		520 North sidewalk 3.5'			-019
	0822		520 South sidewalk 3.5'			-020
	0824		521 North sidewalk 2.5'			-021
	0826		521 South sidewalk 2.5'			-022
	0828		522 North sidewalk 2.5'			-023
	0830		522 South sidewalk 2.5'			-024
	0832		523 North sidewalk 4'			-025

Remarks:

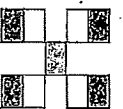
Date: 6/11/18 Time: 1030

Relinquished by: [Signature]

Received by: [Signature] Date: 6/11/18 Time: 1030

Received by: [Signature] Date: 6/10/18 Time: 0945

If necessary, sample is submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975

Fax 505-345-4107

Analysis Request

Chlorides EPA 300

# Chain-of-Custody Record

Client:

Talon LPE

Mailing Address: 408 W. Texas Ave.

Artesia, NM 88210

Phone #: 575-746-8768

email or Fax#: daddkins@talenpe.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time  
yday rush no extra charge  
☐ Standard ☒ Rush

Project Name:

East Peas 32

Project #:

102331.001.01

Project Manager:

D. Calkins

Sampler: J. Madrid

On Ice: ☒ Yes ☐ No

Sample Temperature: 5.9

Date Time Matrix Sample Request ID

Container Type and #

Preservative Type

HEAL No.

6-1-18 0631 Soil 523 South Sidewalk 4' Jar 1 None -026

0636 524 North Sidewalk 2.5' -027

0838 524 South Sidewalk 2.5' -028

0840 525 North Sidewalk 4' -029

0842 525 South Sidewalk 4' -030

0846 526 South Sidewalk 4' -031

0849 526 North Sidewalk 4' -032

Date: Time: Relinquished by: Received by: Date: Time

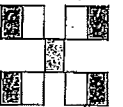
6/1/18 1030 Sarah Madrid 6/1/18 1230

Date: Time: Relinquished by: Received by: Date: Time

6/1/18 1100 Sarah Madrid 6/1/18 0945

Remarks:

BTEX + MTBE + TMB's (8021)  
BTEX + MTBE + TPH (Gas only)  
TPH 8015B (GRO / DRO / MRO)  
TPH (Method 418.1)  
EDB (Method 504.1)  
PAH's (8310 or 8270 SIMS)  
RCRA 8 Metals  
Anions (F, Cl, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>)  
8081 Pesticides / 8082 PCB's  
8260B (VOA)  
8270 (Semi-VOA)  
Chlorides EPA 300



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ANALYSIS LABORATORY

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Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

June 19, 2018

David Adkins  
Talon Artesia  
408 West Texas Ave  
Artesia, NM 88210  
TEL: (806) 467-0607  
FAX (806) 467-0622

RE: East Pecos 22

OrderNo.: 1806500

Dear David Adkins:

Hall Environmental Analysis Laboratory received 27 sample(s) on 6/7/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', with a stylized flourish at the end.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



Analytical Report

Lab Order: 1806500

Date Reported: 6/19/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Lab Order: 1806500

Project: East Pecos 22

Lab ID: 1806500-001

Collection Date: 6/6/2018 8:00:00 AM

Client Sample ID: S-1 North Sidewall 4.5'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: SRM
Chloride	730	30		mg/Kg	20	6/12/2018 6:39:55 PM	38630

Lab ID: 1806500-002

Collection Date: 6/6/2018 8:02:00 AM

Client Sample ID: S-1 East Sidewall 4.5'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	1000	30		mg/Kg	20	6/13/2018 12:06:16 PM	38630

Lab ID: 1806500-003

Collection Date: 6/6/2018 8:04:00 AM

Client Sample ID: S-1 West Sidewall 4.5'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	420	30		mg/Kg	20	6/13/2018 12:18:41 PM	38630

Lab ID: 1806500-004

Collection Date: 6/6/2018 8:06:00 AM

Client Sample ID: S-2 East Sidewall 3.5'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	560	30		mg/Kg	20	6/13/2018 12:31:06 PM	38630

Lab ID: 1806500-005

Collection Date: 6/6/2018 8:08:00 AM

Client Sample ID: S-2 West Sidewall 3.5'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	960	30		mg/Kg	20	6/13/2018 8:22:56 AM	38630

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	Page 1 of 7
	D Sample Diluted Due to Matrix	E Value above quantitation range	
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
	PQL Practical Quantitative Limit	RL Reporting Detection Limit	

## Analytical Report

Lab Order: 1806500

Date Reported: 6/19/2018

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Lab Order: 1806500

Project: East Pecos 22

Lab ID: 1806500-006

Collection Date: 6/6/2018 8:10:00 AM

Client Sample ID: S-3 West Sidewall 3.5'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							
Chloride	350	30		mg/Kg	20	6/13/2018 8:35:20 AM	38630

Analyst: JRR

Lab ID: 1806500-007

Collection Date: 6/6/2018 8:12:00 AM

Client Sample ID: S-4 East Sidewall 4.5'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							
Chloride	810	30		mg/Kg	20	6/13/2018 8:47:45 AM	38630

Analyst: JRR

Lab ID: 1806500-008

Collection Date: 6/6/2018 8:14:00 AM

Client Sample ID: S-4 4.5'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							
Chloride	190	30		mg/Kg	20	6/13/2018 9:00:09 AM	38630

Analyst: JRR

Lab ID: 1806500-009

Collection Date: 6/6/2018 8:16:00 AM

Client Sample ID: S-5 3.5'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							
Chloride	320	30		mg/Kg	20	6/13/2018 9:12:33 AM	38630

Analyst: JRR

Lab ID: 1806500-010

Collection Date: 6/6/2018 8:18:00 AM

Client Sample ID: S-5 East Sidewall 3.5'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							
Chloride	650	30		mg/Kg	20	6/13/2018 9:24:57 AM	38630

Analyst: JRR

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

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## Analytical Report

Lab Order: 1806500

Date Reported: 6/19/2018

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Lab Order: 1806500

Project: East Pecos 22

Lab ID: 1806500-011

Collection Date: 6/6/2018 8:20:00 AM

Client Sample ID: S-5 West Sidewall 3.5'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: JRR

Chloride	820	30		mg/Kg	20	6/13/2018 9:37:22 AM	38630
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Lab ID: 1806500-012

Collection Date: 6/6/2018 8:22:00 AM

Client Sample ID: S-8 West Sidewall 4'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: JRR

Chloride	450	30		mg/Kg	20	6/13/2018 9:49:47 AM	38630
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Lab ID: 1806500-013

Collection Date: 6/6/2018 8:24:00 AM

Client Sample ID: S-10 3.5'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: JRR

Chloride	340	30		mg/Kg	20	6/13/2018 10:02:11 AM	38630
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Lab ID: 1806500-014

Collection Date: 6/6/2018 8:26:00 AM

Client Sample ID: S-10 East Sidewall 3.5'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: JRR

Chloride	790	30		mg/Kg	20	6/13/2018 10:14:35 AM	38630
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Lab ID: 1806500-015

Collection Date: 6/6/2018 8:28:00 AM

Client Sample ID: S-10 West Sidewall 3.5'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: JRR

Chloride	220	30		mg/Kg	20	6/13/2018 10:51:49 AM	38630
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Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	Page 3 of 7
	D Sample Diluted Due to Matrix	E Value above quantitation range	
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
	PQL Practical Quantitative Limit	RL Reporting Detection Limit	

## Analytical Report

Lab Order: 1806500

Date Reported: 6/19/2018

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Lab Order: 1806500

Project: East Pecos 22

Lab ID: 1806500-016

Collection Date: 6/6/2018 8:30:00 AM

Client Sample ID: S-11 4'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: JRR

Chloride	590	30		mg/Kg	20	6/13/2018 11:04:14 AM	38630
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Lab ID: 1806500-017

Collection Date: 6/6/2018 8:32:00 AM

Client Sample ID: S-11 East Sidewall 4'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: JRR

Chloride	290	30		mg/Kg	20	6/13/2018 11:16:38 AM	38630
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Lab ID: 1806500-018

Collection Date: 6/6/2018 8:34:00 AM

Client Sample ID: S-11 West Sidewall 4'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: JRR

Chloride	300	30		mg/Kg	20	6/13/2018 11:29:03 AM	38630
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Lab ID: 1806500-019

Collection Date: 6/6/2018 8:36:00 AM

Client Sample ID: S-12 3.5'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: JRR

Chloride	840	30		mg/Kg	20	6/13/2018 11:41:27 AM	38630
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Lab ID: 1806500-020

Collection Date: 6/6/2018 8:38:00 AM

Client Sample ID: S-12 East Sidewall 3.5'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: JRR

Chloride	ND	30		mg/Kg	20	6/13/2018 11:53:52 AM	38630
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Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	Page 4 of 7
	D Sample Diluted Due to Matrix	E Value above quantitation range	
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
	PQL Practical Quantitative Limit	RL Reporting Detection Limit	



## Analytical Report

Lab Order: 1806500

Date Reported: 6/19/2018

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Lab Order: 1806500

Project: East Pecos 22

Lab ID: 1806500-021

Collection Date: 6/6/2018 8:40:00 AM

Client Sample ID: S-12 West Sidewall 3.5'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: JRR

Chloride	ND	30		mg/Kg	20	6/13/2018 1:45:35 PM	38660
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Lab ID: 1806500-022

Collection Date: 6/6/2018 8:42:00 AM

Client Sample ID: S-13 4'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: JRR

Chloride	1000	30		mg/Kg	20	6/13/2018 1:58:00 PM	38660
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Lab ID: 1806500-023

Collection Date: 6/6/2018 8:44:00 AM

Client Sample ID: S-13 East Sidewall 4'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: JRR

Chloride	830	30		mg/Kg	20	6/14/2018 1:30:01 PM	38660
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Lab ID: 1806500-024

Collection Date: 6/6/2018 8:46:00 AM

Client Sample ID: S-13 West Sidewall 4'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: JRR

Chloride	710	30		mg/Kg	20	6/13/2018 2:22:50 PM	38660
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Lab ID: 1806500-025

Collection Date: 6/6/2018 8:48:00 AM

Client Sample ID: S-14 2'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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## EPA METHOD 300.0: ANIONS

Analyst: JRR

Chloride	ND	30		mg/Kg	20	6/13/2018 2:35:15 PM	38660
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Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	Page 5 of 7
	D Sample Diluted Due to Matrix	E Value above quantitation range	
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
	PQL Practical Quantitative Limit	RL Reporting Detection Limit	

Analytical Report

Lab Order: 1806500

Date Reported: 6/19/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia  
Project: East Pecos 22

Lab Order: 1806500

Lab ID: 1806500-026

Collection Date: 6/6/2018 8:50:00 AM

Client Sample ID: S-15 2'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	880	30		mg/Kg	20	6/13/2018 2:47:39 PM	38660

Lab ID: 1806500-027

Collection Date: 6/6/2018 8:52:00 AM

Client Sample ID: S-16 2'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	940	30		mg/Kg	20	6/13/2018 3:00:03 PM	38660

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	Page 6 of 7
	D Sample Diluted Due to Matrix	E Value above quantitation range	
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
	PQL Practical Quantitative Limit	RL Reporting Detection Limit	

## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1806500

19-Jun-18

Client: Talon Artesia

Project: East Pecos 22

Sample ID	MB-38630	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	38630	RunNo:	51940					
Prep Date:	6/12/2018	Analysis Date:	6/12/2018	SeqNo:	1697660	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-38630	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	38630	RunNo:	51940					
Prep Date:	6/12/2018	Analysis Date:	6/12/2018	SeqNo:	1697661	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	5.000	0	278	90	110			S

Sample ID	MB-38660	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	38660	RunNo:	51967					
Prep Date:	6/13/2018	Analysis Date:	6/13/2018	SeqNo:	1698916	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-38660	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	38660	RunNo:	51967					
Prep Date:	6/13/2018	Analysis Date:	6/13/2018	SeqNo:	1698917	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.3	90	110			

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified

Page 7 of 7



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: Talon LPE

Work Order Number: 1806500

RcptNo: 1

Received By: Jazzmine Burkhead 6/7/2018 10:00:00 AM

Completed By: Ashley Gallegos 6/8/2018 11:46:16 AM

Reviewed By: ENM

6/8/18

Labeled by: MW 6/8/18

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

### Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

(+20 or +2 unless noted)

Adjusted?

Checked by:

### Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

### 17. Cooler Information

Cooler No.	Temp. °C	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	2.0	Good	Yes			











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

July 02, 2018

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: EAST PECOS 22 FED COM #6

Enclosed are the results of analyses for samples received by the laboratory on 06/29/18 14:42.

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](http://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





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

**Analytical Results For:**

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

Received: 06/29/2018  
 Reported: 07/02/2018  
 Project Name: EAST PECOS 22 FED COM #6  
 Project Number: 702331.001.01  
 Project Location: WPX -EDDY CO NM

Sampling Date: 06/28/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S- 1 EAST SIDEWALL 4.5' (H801788-01)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	07/01/2018	ND	416	104	400	0.00	

**Sample ID: S- 3 EAST SIDEWALL 3.5' (H801788-02)**

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	07/01/2018	ND	416	104	400	0.00	

**Sample ID: S- 4 EAST SIDEWALL 4.5' (H801788-03)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	07/01/2018	ND	416	104	400	0.00	

**Sample ID: S- 4 WEST SIDEWALL 4.5' (H801788-04)**

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	07/02/2018	ND	416	104	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	06/29/2018	Sampling Date:	06/28/2018
Reported:	07/02/2018	Sampling Type:	Soil
Project Name:	EAST PECOS 22 FED COM #6	Sampling Condition:	Cool & Intact
Project Number:	702331.001.01	Sample Received By:	Tamara Oldaker
Project Location:	WPX -EDDY CO NM		

**Sample ID: S- 5 3.5' (H801788-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	07/01/2018	ND	416	104	400	3.77	

**Sample ID: S- 5 WEST SIDEWALL 3.5' (H801788-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	07/01/2018	ND	416	104	400	3.77	

**Sample ID: S- 6 6' (H801788-07)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	07/01/2018	ND	416	104	400	3.77	

**Sample ID: S- 6 7' (H801788-08)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	07/01/2018	ND	416	104	400	3.77	

**Sample ID: S- 6 WEST SIDEWALL 4' (H801788-09)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	07/01/2018	ND	416	104	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 06/29/2018  
 Reported: 07/02/2018  
 Project Name: EAST PECOS 22 FED COM #6  
 Project Number: 702331.001.01  
 Project Location: WPX -EDDY CO NM

Sampling Date: 06/28/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S- 7 WEST SIDEWALL 4' (H801788-10)**

Chloride, SM4500Cl-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	07/01/2018	ND	416	104	400	3.77	

**Sample ID: S- 8 EAST SIDEWALL 4' (H801788-11)**

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	07/01/2018	ND	416	104	400	3.77	

**Sample ID: S- 8 WEST SIDEWALL 4' (H801788-12)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	07/01/2018	ND	416	104	400	3.77	

**Sample ID: S- 10 EAST SIDEWALL 3.5' (H801788-13)**

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	07/01/2018	ND	416	104	400	3.77	

**Sample ID: S- 14 2.5' (H801788-14)**

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	07/01/2018	ND	416	104	400	3.77	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/29/2018  
Reported: 07/02/2018  
Project Name: EAST PECOS 22 FED COM #6  
Project Number: 702331.001.01  
Project Location: WPX -EDDY CO NM

Sampling Date: 06/28/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S- 14 EAST SIDEWALL 2.5' (H801788-15)**

Chloride, SM4500Cl-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	07/01/2018	ND	416	104	400	3.77	

**Sample ID: S- 14 WEST SIDEWALL 2.5' (H801788-16)**

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	07/01/2018	ND	416	104	400	3.77	

**Sample ID: S- 15 2.5' (H801788-17)**

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	07/01/2018	ND	416	104	400	3.77	

**Sample ID: S- 15 EAST SIDEWALL 2.5' (H801788-18)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	07/01/2018	ND	416	104	400	3.77	

**Sample ID: S- 15 WEST SIDEWALL 2.5' (H801788-19)**

Chloride, SM4500Cl-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	07/01/2018	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	06/29/2018	Sampling Date:	06/28/2018
Reported:	07/02/2018	Sampling Type:	Soil
Project Name:	EAST PECOS 22 FED COM #6	Sampling Condition:	Cool & Intact
Project Number:	702331.001.01	Sample Received By:	Tamara Oldaker
Project Location:	WPX -EDDY CO NM		

**Sample ID: S- 16 2.5' (H801788-20)**

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	07/01/2018	ND	416	104	400	3.77	

**Sample ID: S- 16 NORTH SIDEWALL 2.5' (H801788-21)**

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	07/02/2018	ND	416	104	400	3.77	

**Sample ID: S- 16 SOUTH SIDEWALL 2.5' (H801788-22)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	07/02/2018	ND	416	104	400	3.77	

**Sample ID: S- 18 5' (H801788-23)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	07/02/2018	ND	416	104	400	3.77	

**Sample ID: S- 18 7' (H801788-24)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	07/02/2018	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 06/29/2018  
 Reported: 07/02/2018  
 Project Name: EAST PECOS 22 FED COM #6  
 Project Number: 702331.001.01  
 Project Location: WPX -EDDY CO NM

Sampling Date: 06/28/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S- 18 10' (H801788-25)**

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	07/02/2018	ND	416	104	400	0.00			

**Sample ID: 1-1A-1 0.5' (H801788-26)**

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	272	16.0	07/02/2018	ND	416	104	400	0.00			

**Sample ID: 1-1A-2 0.5' (H801788-27)**

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	144	16.0	07/02/2018	ND	416	104	400	0.00			

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Caley D. Keene, Lab Director/Quality Manager



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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

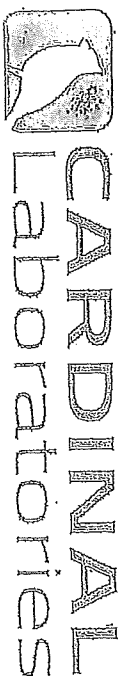
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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Wof 1

101 East Highland, Hobbs, NM 88240

(575) 393-2325 FAX (575) 393-2476

<b>Company Name:</b> Talon/LPE							<b>P.O. #:</b>		<b>ANALYSIS REQUEST</b>			
<b>Project Manager:</b> D. Addicks							<b>Company:</b> Talon/LPE					
<b>Address:</b> 408 W. Texas Ave.							<b>City:</b> Artesia					
<b>State:</b> NM <b>Zip:</b> 88210							<b>Address:</b>					
<b>Phone #:</b> 575-746-8768 <b>Fax #:</b> 575-746-8905							<b>City:</b>					
<b>Project #:</b> 102331.001.01 <b>Project Owner:</b> WPA							<b>State:</b>					
<b>Project Name:</b> East Pecos Rd							<b>Zip:</b>					
<b>Project Location:</b> Eddy County							<b>Phone #:</b>					
<b>Sample Name:</b> S. Howell							<b>Fair #:</b>					
<b>FOR LAB USE ONLY</b>							<b>MATRIX</b>		<b>SAMPLING</b>			
<b>Lab ID:</b>  H801788  Sample ID:  							<b>(C)RAB OR (C)OMP.</b>		<b>DATE</b>		<b>TIME</b>	
							# CONTAINERS					
1 S-1 East Sidewalk 4.5' 6 1 6/25/18 0800 1 2 S-3 East Sidewalk 3.5' 1 1 0803 1 3 S-4 East Sidewalk 4.5' 1 1 0809 1 4 S-4 West Sidewalk 4.5' 1 1 0806 1 5 S-5 3.5' 1 1 0808 1 6 S-5 West Sidewalk 3.5' 1 1 0810 1 7 S-6 6' 1 1 0812 1 8 S-6 "Y" 1 1 0814 1 9 S-6 West Sidewalk 4' 1 1 0816 1 10 S-7 West Sidewalk 4' 1 1 0818 1							GROUNDWATER					
							WASTEWATER					
							SOIL					
							OIL					
							SLUDGE					
							OTHER:					
							ACID/BASE:					
							ICE / COOL					
							OTHER:					

**Chlorides**

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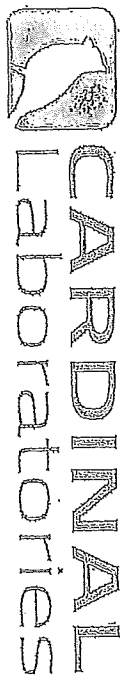
**Relinquished By:** \_\_\_\_\_ **Date:** 6/27/18 **Received By:** \_\_\_\_\_ **Date:** 6/27/18

**Delivered By:** (Circle One) **SVC** **Sample Condition:** ☒ Yes ☐ No **CHECKED BY:** \_\_\_\_\_ **(Initials)**

**Sampler - UPS - Bus - Other:** **Consent:** 5.55E ☐ Yes ☒ No **RE. #15**

**REMARKS:**  
RUSH

**Phone Result:** ☐ Yes ☒ No **Add'l Phone #:** \_\_\_\_\_  
**Fax Result:** ☐ Yes ☒ No **Add'l Fax #:** \_\_\_\_\_



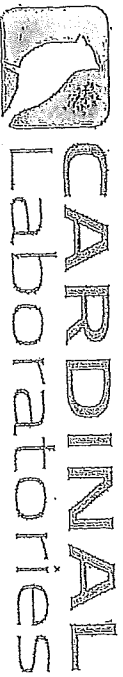
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

N  
Z  
W

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

[illegible]





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/PE		P.O. #:		ANALYSIS REQUEST	
Project Manager: D. Adkins		Company: Talon/PE			
Address: 408 W. Texas Ave.		Attch:			
City: Artesia		Address:			
Phone #: 575-746-8768		City:			
Project #: 100331.001.01		State:			
Project Name: East Pecos 22		Zip:			
Project Location: Eddy County		Fax #:			
Sampler Name: J. Howell		PRESERV.		SAMPLING	
FOR LAB USE ONLY		MATRIX			
Lab I.D.	Sample I.D.	(C)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER
1801788				SOIL	OIL
21	5.16 North Side Wall - 2.5	6	1	SLUDGE	OTHER:
22	5.16 South Side Wall - 2.5			ACID/BASE:	ICE/COOL
23	5.16			OTHER:	
24	5.16			DATE	TIME
25	5.16 10'			6/28/18	0830
26	14A-1 0.5'			0842	
27	14A-2 0.5'			0844	
				0846	
				0848	
				0850	
				0852	
Prepared By: J. Howell		Received By: J. Howell		Chlorides	
Date: 6/29/18		Time: 7:47			
Relinquished By:		Timer:			
Delivered By: (Circle One) S. be		Sample Condition: Copied, Intact		CHECKED BY: (Initials)	
Sampler: UPS, Bus, Other: Assisted S.S.E		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		V.O. #8	
Remarks: Rush		Phone Results: Yes <input type="checkbox"/> No <input type="checkbox"/>		Add'l Phone #:	
		Fax Results: Yes <input type="checkbox"/> No <input type="checkbox"/>		Add'l Fax #:	



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

July 11, 2018

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: EAST PECOS 22 FED COM #6

Enclosed are the results of analyses for samples received by the laboratory on 07/11/18 12:00.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	07/11/2018	Sampling Date:	07/10/2018
Reported:	07/11/2018	Sampling Type:	Soil
Project Name:	EAST PECOS 22 FED COM #6	Sampling Condition:	Cool & Intact
Project Number:	702331.001.01	Sample Received By:	Tamara Oldaker
Project Location:	WPX -EDDY CO NM		

**Sample ID: S- 2 WEST SIDEWALL 3.5' (H801886-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/11/2018	ND	416	104	400	0.00	

**Sample ID: S- 16 SOUTH SIDEWALL 2.5' (H801886-02)**

Chloride, SM4500Cl-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	07/11/2018	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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





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**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 2171

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 2171
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	None	6/11/2021