



## Soil Assessment and Remediation Work Plan:

Pinochle BNP State Com #2H API # 30-015-38316 - 2RP-4372

## **Prepared For:**

Zane Kurtz EOG Resources, Inc. 5509 Champions Drive Midland, Texas 79706

## Prepared By:

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

October 27, 2017

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

Subject:

Soil Assessment and Remediation Work Plan

Pinochel BNP State Com #2H API # 30-015-38318 – 2RP-4372

Dear Mr. Bratcher,

EOG Resources, Inc. (EOG) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

## Site Information

The Pinochel BNP State Com #2H is located approximately twenty-five (25) miles southeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter D, Section 22, Township 25 South and Range 28 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.12088 North and -104.08259 West. Site plans are presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Karro fine sandy loam with 0 to 3 percent slopes. The local geology consists of the Rustler Formation, Paleozoic Age sedimentary deposits, comprised of siltstone, gypsum, sandstone, dolomite and hard caliches. Drainage courses in this area are normally dry.

## **Ground Water and Site Ranking**

The New Mexico State Engineer web site indicates the nearest ground water is 96' below ground surface (BGS). See Appendix II for the referenced groundwater data.

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 (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 1,000 mg/kg for TPH and 600 mg/kg for total chlorides.

## **Incident Description and Initial Remedial Actions**

On August 29, 2017, a 4-inch poly transition line ruptured inside of a tinhorn causing a release of 135 barrels of produced water on location. All fluids were contained on the well pad. A vac truck was called to the location and recovered 130 barrels of fluid. An emergency OneCall was placed and Talon mobilized personnel and equipment to remove the impacted material in order to prevent the deeper migration into the soil. Site plans are presented in Appendix I which illustrate the impacted areas.

On September 6, 2017 Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. On October 2, 2017 Talon personnel returned to the site to perform further horizontal delineation sampling utilizing a hand auger for the completion of the work plan. The analytical results are presented below.

## **Laboratory Results**

See Appendix III for complete report of laboratory results.

Flow path

Sample ID	Depth	BTEX	Chlorides	TPH (mg/kg)	TPH
	(feet)	(mg/kg)	(mg/kg)	GRO	(mg/kg) DRO
S-1	0.0	< 0.300	23200	<10	<10
	1.0		7860		
	2.0		9330		
	3.0		368		
	4.0		64		
S-2	0.0	< 0.300	5600	<10	<10
	1.0		3280		
	2.0		1760		
	3.0		560		
	4.0		224		
S-3	0.0	< 0.300	24000	<10	<10
	1.0		192		
S-4	0.0		16		
S-5	0.0		32		
S-6	0.0		64		
S-7	0.0		48		
S-8	0.0		32		
S-9	0.0		16		

<sup>--</sup> Analyte Not Tested

Bell hole

Sample ID	Depth	BTEX	Chlorides	TPH (mg/kg)	TPH
	(feet)	(mg/kg)	(mg/kg)	GRO	(mg/kg) DRO
Bottom	4.0	< 0.300	16000	<10	<10
North sidewall	2.0	< 0.300	4080	<10	<10
East sidewall	2.0	< 0.300	10400	<10	<10
South sidewall	2.0	< 0.300	12400	<10	<10
West sidewall	2.0	< 0.300	5730	<10	<10
HA-1	0.0		176		
	1.0		96		
	2.0		160		
	3.0		1070		***
	4.0		800		
HA-2	0.0		32		
	1.0	:	16		
	2.0		32		
	3.0		48		
	4.0		80		
HA-3	0.0		48		
	1.0		<16		
	2.0		16		
	3.0		<16		
	4.0		32		

<sup>--</sup> Analyte Not Tested

## **Proposed Remedial Actions**

- The impacted soil on location in the vicinity of S-1 and S-2 will be excavated to a depth of 2.5-feet deep and a confirmation sample from the bottom of the excavation will be obtained.
- The impacted soil on location in the vicinity of S-3 will be excavated to a depth of 0.5-feet deep and a confirmation sample from the bottom of the excavation will be obtained.
- Field titrations for total chlorides will be used to guide the bell hole excavation. As this impacted area is directly in the pipeline ROW, further vertical delineation samples were not able to be safely obtained during the site assessment. Confirmation samples will be obtained from the west side wall and bottom of excavation during remediation activities. The analytical results will be presented to NMOCD for review prior to backfilling.

- All contaminated soil will be transported to Lea Land, LLC, a NMOCD approved disposal facility.
- The excavated area will be backfilled with new caliche and machine compacted. Once the backfilling activities are complete the work area will be contoured to match the surrounding location.
- A final closure report documenting all remedial actions will be provided to the NMOCD Artesia Office along with a Final C-141 Form.

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

Respectfully submitted,

TALON/LPE

Kimberly M. Wilson
Project Manager

David J. Adkins District Manager

Attachments:

Appendix I Site Plan

Appendix II Groundwater Data & Initial C-141

Appendix III Laboratory Results

## APPENDIX I SITE MAP

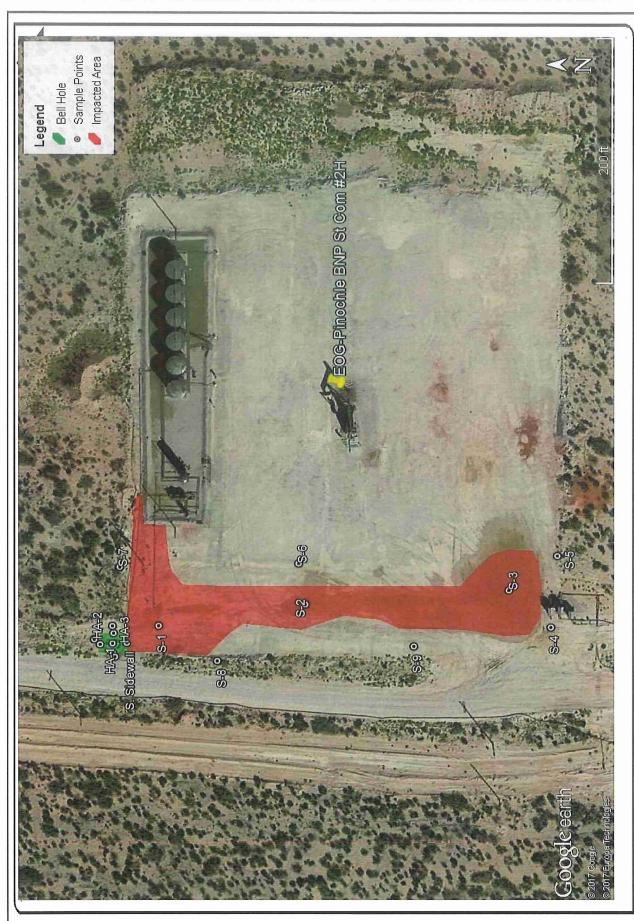


Figure 1 Site Map EOG Pinochle BNP State Com #2H Eddy County, New Mexico

Date: 10/30/2017 Scale: Not to Scale

Drawn By: RPD





## APPENDIX II GROUNDWATER DATA INITIAL C-141



## New Mexico Office of the State Engineer Water Column/Average Depth to Water

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

(R=POD has been replaced, O=orphaned,

C=the file is closed)

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

(quarters are smallest to

largest)

(NAD83 UTM in meters)

(In feet)

POD

Sub-

QQQ

Χ

DistanceDepthWellDepthWater Column

**POD Number** C 01522

Code basin County 6416 4 Sec Tws Rng C ED

1 22 25S 28E

586843 3554004\*

423 150

96

80

C 01573 POD1

C ED 3 1 4 20 25S 28E

584144 3553361 2575

176

Average Depth to Water:

96 feet

Minimum Depth:

96 feet

Maximum Depth:

96 feet

**Record Count:2** 

UTMNAD83 Radius Search (in meters):

Easting (X): 586542

Northing (Y): 3554302

Radius: 3000

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

9/19/17 2:12 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

## NM OIL CONSERVATION ARTESIA DISTRICT

District 1 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

Energy Minerals and Natural Resources AUG 29 2017 State of New Mexico

Form C-141 Revised April 3, 2017

Oil Conservation Division

RECEIVED Copy to appropriate District Office in

District IV 1220 S. St. Fran	cis Dr., Santa	a Fe, NM 87505				St. France, NM 875		162 Acts	A case. SC	cordance w	un 19.1	13.29 NMAC.
			Rele	ase Notific	cation	and Co	rrective A	ction				
NAB1	12502	9111				OPERA:	ГOR		⊠ Initia	ıl Report	П	Final Report
Name of Co	mpany E	OG Resource		25575		Contact Za						
		pions Drive,					No. 432-425-2					
		nle BNP Stat	e Com #.	2H		racility Typ	e Oil Well and	Battery				
Surface Ow	ner EOG			Mineral C	wner E	EOG			API No	. 30-015-3	8316	
						OFRE		· · · · · · · · · · · · · · · · · · ·	www.			
Unit Letter D	Section 22	Township 25S	Range 28E	Feet from the 660	North/S FNL	South Line	Feet from the 330	East/W	est Line	County Eddy		
		La	atitude_	32.209				NA	D83			
Type of Relea	ase Produc	ed Water		NAT	UKE	OF REL	EASE Release 135 bbl:		Volume E	Recovered 1	30 hhl	
		oly transition	ruptured i	nside tinhorn			lour of Occurrence			Hour of Dis		·
137 - T - 17						8/29/2017	3771 0		0900			
Was Immedia	ne Notice (		Yes [	No 🗌 Not Re	equired		whom? ther and Crystal Voves, NM State La			, BLM		
By Whom?							lour 08/29/2017					
Was a Watero	course Read	thed?	Yes 🛚	No		II YES, Vo	lume Impacting t	he Wate	rcourse.			
If a Watercou	rse was Im	pacted, Descri	be Fully.*	N/A		1						
Lease op disc were released deeper into th	covered a 4' I and 130 blue ground. Il be produc	ols were recov The impacted	n inside o ered. An material v	n Taken.* If a tinhorn leakin emergency one co vill be disposed o alytical and submi	all is beinf at a NN	ng placed too A approved la	lay so that we can andfill. An assess	remove sment wi	the impac Il follow w	ted (wet) are with soil sam	a befoi ples co	re it goes Ilected and a
**Surface is	apparently	State Lands	and the l	oottom hole is BI	LM.							
Describe Are	a Affected	and Cleanup A	ction Tak	en.*								
regulations al public health should their cor the environ	I operators or the environment operations hament. In a	are required to ronment. The ave failed to a	report ar acceptance dequately CD accep	is true and comp ad/or file certain r te of a C-141 repo investigate and r tance of a C-141	elease no ort by the emediate	otifications a NMOCD m contaminati	nd perform correct arked as "Final R on that pose a three the operator of	ctive acti eport" d eat to gr responsi	ons for rele oes not rele ound water bility for c	eases which eve the ope surface water ompliance v	may er rator of iter, hui vith any	ndanger Fliability man health
	1	1	7		ĺ		OIL CON	<u>SERV</u>	ATION	DIVISIO	<u>N</u>	
Signature:	)an	· /) my				Approved by	Envir <b>GiguediB</b>	necialist	1/2 B	CARTINI SA	,	
Printed Name	: Zane Ku	rtz C	<u></u>				777					
Title: Sr. En	vironmenta	l Rep.	<del></del>			Approval Da	ie:4140/17	/ <u> </u>	Expiration	Date:///	4	
E-mail Addre	ss: zane l	curtz@eogresc	urces.cor	<u> </u>	(	Conditions of	f Approval:	201	. A	Attachad	<b>\</b> □ı.	212
Date: 8/2	9/2017	Phone	432-425	i-2023			Oll Ultu	WILL	W	IOKI	1-4:	21//

\* Attach Additional Sheets If Necessary

## APPENDIX III LABORATORY RESULTS



September 13, 2017

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: PINOCHLE BMP ST COM 24

Enclosed are the results of analyses for samples received by the laboratory on 09/06/17 15:35.

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celes D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



TALON LPE SHELDON HITCHCOCK 408 W, TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received: Reported: 09/06/2017

09/13/2017

PINOCHLE BMP ST COM 24

Project Name: Project Number:

700438.199.01 - EOG -Y

Project Location:

D-22-25S-28E

Sampling Date:

09/06/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

## Sample ID: BOTTOM 4' (H702367-01)

BTEX 8021B	mg/l	kg	Analyze	d By: MS		- Composition -		***************************************	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2017	ND	1.63	81.4	2.00	0.180	
Toluene*	<0.050	0.050	09/12/2017	ND	1.71	85.7	2.00	2.03	
Ethylbenzene*	<0.050	0.050	09/12/2017	ND	1.89	94.3	2.00	1.28	
Total Xylenes*	<0.150	0.150	09/12/2017	ND	5.70	94.9	6.00	1.09	
Total BTEX	<0.300	0.300	09/12/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 %	6 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC			N. Carlotte Control Co		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16000	16.0	09/07/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/07/2017	ND	198	98.9	200	7.70	
DRO >C10-C28	<10,0	10.0	09/07/2017	ND	205	103	200	8.35	
Surrogate: 1-Chlorooctane	86.5 %	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	93.5 9	% 34.7-15	7						

## Cardinal Laboratories

\*=Accredited Analyte

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Celeg to Kreene



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

09/06/2017

09/13/2017

Reported: Project Name:

PINOCHLE BMP ST COM 24 700438.199.01 - EOG -Y

Project Number: Project Location:

D-22-25S-28E

Sampling Date:

09/06/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: NORTH SIDE WALL (H702367-02)

BTEX 8021B	mg,	'kg	Analyze	d By: MS				MATTER STATE OF THE STATE OF TH	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	09/12/2017	ND	1.63	81.4	2.00	0.180	
Toluene*	<0.050	0.050	09/12/2017	ND	1.71	85.7	2.00	2.03	
Ethylbenzene*	<0.050	0,050	09/12/2017	ND	1.89	94.3	2.00	1.28	
Total Xylenes*	<0.150	0.150	09/12/2017	ND	5.70	94.9	6.00	1.09	
Total BTEX	<0.300	0.300	09/12/2017	ND					

Surrogate: 4-Bromofluorobenzene (P.	IL 99.4 %	72-148
-------------------------------------	-----------	--------

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC		· · · · · · · · · · · · · · · · · · ·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	09/07/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10,0	09/07/2017	ND	198	98.9	200	7.70	
DRO >C10-C28	<10.0	10.0	09/07/2017	ND	205	103	200	8.35	

Surrogate: 1-Chlorooctane 83.6 % 28.3-164
Surrogate: 1-Chlorooctadecane 86.1 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

09/06/2017

Reported:

09/13/2017

Project Name: Project Number: PINOCHLE BMP ST COM 24 700438.199.01 - EOG -Y

Project Location:

D-22-25S-28E

Sampling Date:

09/06/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

## Sample ID: EAST SIDE WALL (H702367-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS	******************************				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2017	ND	1.63	81.4	2.00	0.180	
Toluene*	< 0.050	0.050	09/12/2017	ND	1.71	85.7	2.00	2.03	
Ethylbenzene*	<0.050	0.050	09/12/2017	ND	1.89	94.3	2.00	1.28	
Total Xylenes*	<0.150	0.150	09/12/2017	ND	5.70	94.9	6.00	1.09	
Total BTEX	<0.300	0.300	09/12/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	09/07/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/07/2017	ND	198	98.9	200	7,70	
DRO >C10-C28	<10.0	10.0	09/07/2017	ND	205	103	200	8.35	
Surrogate: 1-Chlorooctane	93.8	% 28.3-16	1						
Surrogate: 1-Chlorooctadecane	94.6	% 34.7-15	7						

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\*=Accredited Analyte

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Celeg & Keene



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

09/06/2017

Sampling Date:

09/06/2017

Reported:

Sampling Type:

Soil

09/13/2017

Sampling Condition:

Cool & Intact

Project Name: Project Number: PINOCHLE BMP ST COM 24 700438.199.01 - EOG -Y

Project Location:

D-22-25S-28E

Sample Received By:

Jodi Henson

## Sample ID: SOUTH SIDE WALL (H702367-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS			***************************************		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2017	ND	1.63	81.4	2.00	0.180	
Toluene*	<0.050	0.050	09/12/2017	ND	1.71	85.7	2.00	2.03	
Ethylbenzene*	<0.050	0.050	09/12/2017	ND	1.89	94.3	2.00	1.28	
Total Xylenes*	<0.150	0.150	09/12/2017	ND	5.70	94,9	6.00	1.09	
Total BTEX	<0.300	0.300	09/12/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.8	% 72-148							111111
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12400	16.0	09/07/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/07/2017	ND	198	98.9	200	7.70	
DRO >C10-C28	<10.0	10.0	09/07/2017	ND	205	103	200	8.35	
Surrogate: 1-Chlorooctane	99.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	103 9	% 34.7-15	7						

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\*=Accredited Analyte

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Celeg Streen



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

09/06/2017

Reported:

09/13/2017

Project Name: Project Number: PINOCHLE BMP ST COM 24 700438.199.01 - EOG -Y

Project Location:

D-22-25S-28E

91.1%

97.5 %

28.3-164

34.7-157

Sampling Date:

09/06/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: WEST SIDE WALL (H702367-05)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					*******************************
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2017	ND	1.63	81.4	2.00	0.180	
Toluene*	<0.050	0.050	09/12/2017	ND	1.71	85.7	2.00	2.03	
Ethylbenzene*	<0.050	0.050	09/12/2017	ND	1.89	94.3	2.00	1.28	
Total Xylenes*	<0.150	0.150	09/12/2017	ND	5.70	94.9	6.00	1.09	
Total BTEX	<0.300	0.300	09/12/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 72-148	)						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5730	16.0	09/07/2017	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/07/2017	ND	198	98.9	200	7.70	
DRO >C10-C28	<10.0	10.0	09/07/2017	ND	205	103	200	8.35	

Cardinal Laboratories

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Celey & Keine



## **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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Celeg D. Kiene



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

Company water 10/0/ Lpt.	The state of the s	ANALYSIS REQUEST
Project Manager: Shelden Witchcock	P.O. #:	
Address: 408 W. Topas	Company: E ○ 6 - Y	
State: N/	Zip: Attn: Zana Kurtz	
Phone #: 525-746-8768 Fax #:		
Project #: 700438. 149.0 Project Owner: EOG	TOG City: Artesia	
Project Name: Pin ochle 3 MP ST Com 74		
Project Location: 0-22-255-285	Phone #:	
Sampler Name:	Fax#:	3
TOTAL LAST USE ONLY	MATRIX PRESERV SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	TPM BTEX Chloric
1 Scotton affect		
2 North Side wall	8-1 00	88///
3 East side wall	1 / / 00	70
4 500th 5id 10011	700	
5 West side wall	図/ / / 07	4///
PLEASE NOTE: Liability and Damages, Cardinal's flability and client's exclusive remedy for an analyses. All claims limituding those for negligence and any other cause whatcover shall be de-	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or ton, shall be limited to the amount paid by the client for the annional state of the panionalists. All claims including those for negligence and any other cause whatsperer shall be deemed valved unless made in valued or teceived by Cardinal within 30 days after camplehon of the applicable.	SM for the a of the somilesmin

Relinquished By: Relinquished By: Sampler - UPS - Bus - Other: Delivered By: (Circle One) 10.4h いが、 Time: Received By: Sample Condition
Cool Intact
Yes 13 Yes
No No CHECKED BY: Phone Result: Fax Result: REMARKS: ☐ Yes

N O N

Add'l Fax #:

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

120

Page 8 of 8



September 11, 2017

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: PINOCHLE BMP ST COM 24

Enclosed are the results of analyses for samples received by the laboratory on 09/06/17 15:35.

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

09/06/2017

Reported:

09/11/2017

102 %

34.7-157

Project Name: Project Number: PINOCHLE BMP ST COM 24

Project Location: D

700438.199.01 D-22-25S-28E Sampling Date:

09/06/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-1 0' (H702366-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2017	ND	1.78	88.9	2.00	0.593	
Toluene*	<0.050	0.050	09/09/2017	ND	1.83	91.7	2.00	1.19	
Ethylbenzene*	< 0.050	0.050	09/09/2017	ND	1.98	98.8	2.00	1.15	
Total Xylenes*	<0.150	0.150	09/09/2017	ND	5.95	99.1	6.00	0.811	
Total BTEX	<0.300	0.300	09/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 5	% 72-148	,						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	23200	16.0	09/07/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/07/2017	ND	198	98.9	200	7.70	
DRO >C10-C28	<10.0	10.0	09/07/2017	ND	205	103	200	8.35	
Surrogate: 1-Chlorooctane	96.4	% 28.3-16	4						

Sample ID: S-1 1' (H702366-02)

Surrogate: 1-Chlorooctadecane

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC				-2-70-000000-1000-110-00-1	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7860	16.0	09/07/2017	ND	432	108	400	0.00	

## Cardinal Laboratories

\*=Accredited Analyte

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Celey & Keene



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

09/06/2017

Reported:

09/11/2017

Project Name: Project Number: PINOCHLE BMP ST COM 24

Project Location:

700438.199.01 D-22-25S-28E

Sampling Date:

09/06/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-1 2' (H702366-03)

Chloride, SM4500CI-B

Chloride

Chloride

mg/kg

Analyzed By: AC

Analyte

Result

9330

368

16.0

Reporting Limit

Analyzed 09/07/2017 Method Blank ND

BS 432 % Recovery 108

True Value QC 400

RPD Qualifier

0.00

Sample ID: S-1 3' (H702366-04)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte

Result Reporting Limit

16.0

Reporting Limit

Analyzed

09/07/2017

Method Blank ND

BS 432 % Recovery 108

True Value QC 400

RPD

0.00

Qualifier

Sample ID: S-1 4' (H702366-05)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte Result Chloride 64.0

16.0

Analyzed 09/07/2017 Method Blank ND

BS 432 % Recovery 108

True Value QC 400

RPD 0.00

Qualifier

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

Received:

09/06/2017

Reported:

09/11/2017

Project Name: Project Number: PINOCHLE BMP ST COM 24

Project Location:

700438.199.01 D-22-25S-28E Sampling Date:

09/06/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Jodi Henson

Sample ID: S-2 0' (H702366-06)

BTEX 8021B	mg/	/kg	Analyze	d By: MS	·····				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2017	ND	1.78	88.9	2.00	0.593	
Toluene*	<0.050	0.050	09/09/2017	ND	1.83	91.7	2.00	1.19	
Ethylbenzene*	<0.050	0.050	09/09/2017	ND	1.98	98.8	2.00	1.15	
Total Xylenes*	<0.150	0.150	09/09/2017	ND	5.95	99.1	6.00	0.811	
Total BTEX	<0.300	0.300	09/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 72-148							
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC			, v.		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	09/07/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS		···			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/07/2017	ND	198	98.9	200	7.70	
DRO >C10-C28	<10.0	10.0	09/07/2017	ND	205	103	200	8.35	

Surrogate: 1-Chlorooctadecane

Surrogate: 1-Chlorooctane

94.0 % 96.5 % 28.3-164 34.7-157

Sample ID: S-2 1' (H702366-07)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	09/07/2017	ND	432	108	400	0.00	

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Fax To:

(575) 745-8905

Received:

09/06/2017

Reported:

09/11/2017

Project Name: Project Number: PINOCHLE BMP ST COM 24

Project Location:

700438.199.01

Sampling Date:

09/06/2017

Sampling Type:

Sampling Condition:

Soil Cool & Intact

Sample Received By:

Jodi Henson

D-22-25S-28E

Sample ID: S-2 2' (H702366-08)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte

Analyte

Result

1760

Reporting Limit

Analyzed

09/07/2017

Method Blank ND

BS 432 % Recovery

108

True Value QC 400

RPD Qualifier

0.00

Sample ID: S-2 3' (H702366-09)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Method Blank

% Recovery 108

True Value QC

400

Qualifier

Chloride

Chloride

Result 560

16.0

16.0

Reporting Limit

Analyzed 09/07/2017

ND

BS 432

RPD 0.00

Sample ID: S-2 4' (H702366-10)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/07/2017	ND	432	108	400	0.00	

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Fax To:

: (575) 745-8905

Received:

09/06/2017

Reported:

09/11/2017

Project Name: Project Number: PINOCHLE BMP ST COM 24

Project Location:

700438.199.01

D-22-25S-28E

Sampling Date:

09/06/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-3 0' (H702366-12)

BTEX 8021B	mg/	kg	Analyze	d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2017	ND	1.78	88.9	2.00	0.593		
Toluene*	<0.050	0.050	09/09/2017	ND	1.83	91.7	2.00	1.19		
Ethylbenzene*	<0.050	0.050	09/09/2017	ND	1.98	98.8	2.00	1.15		
Total Xylenes*	<0.150	0.150	09/09/2017	ND	5.95	99.1	6.00	0.811		
Total BTEX	<0.300	0.300	09/09/2017	ND						
Surrogate: 4-Bromofluorobenzene (PIL	101 % 72-148									
Chloride, SM4500CI-B	mg/			Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	24000	16.0	09/07/2017	ND	432	108	400	0.00		
TPH 8015M	ma/	ka	Analyze	d Rv: MS						

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24000	16.0	09/07/2017	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/07/2017	ND	198	98.9	200	7.70	
DRO >C10-C28	<10.0	10.0	09/07/2017	ND	205	103	200	8.35	

Surrogate: 1-Chlorooctane 82.8 % 28.3-164
Surrogate: 1-Chlorooctadecane 91.2 % 34.7-157

## Sample ID: S-3 1' (H702366-13)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC		Laure .			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/07/2017	ND	432	108	400	0.00	

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Celeg & Keene



## **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

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Celey D. Keens



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

Relinquished By:  Times: 7 Received by:	service. In nevertable landrabe table for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidianes services, in never shall cardinabe table for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidianes are limited to the performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated reasons or otherwise.	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be finished to the amount paid by the client for the applicable.	10 6-2-9	9 5.2 3	8522	1 ( )	6 52 0	5 51 11	4 5.7 3, 10/1	C3 - 5-1 21	2 5-1 21.	5-10	# CC GRC WAS SOIL OIL SLU	RAB ODNTA DUND DOBE	OR (C)CS	OMP.		Hirebrock	1. O-22-255-28E	ime: Pinochle BMP ST Com 21	Project #: 7004/38, /99, (Project Owner: EOO	75-746-8768 Fax#:	State: N/M Zip:		Project Manager: 6. 11.70600CK	Company Name: 74/on LAC
Fax Result:    Yes    No Add Fax #:		ct or ton, shall be limited to the amount paid by the client for the 10 client for t		X \	( )/00	1655	1020 -1 1	0	(o) (d)	1010	) 1005 8	1 96171000 V XX	ACILICE OTH DATE TIME	D/BAS / COO HER:	-	X mile	PRESERV! SAMPLING	Fax#:	Phone #:	State: Zip:	City:	Address:	Attn: Lenc Kuvtz	Company: $EOO$	P.O.#:	ANALYSIS REQUEST

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

Sampler - UPS - Bus - Other:

Sample Condition
Cool Intact
Yes Yes
No No

5000 C1 - 150 my/kg

Ct. X 250 wat feet

Delivered By: (Circle One)

Relinquished by:

7.50mm Date: Time:

Received By:

Page 8 of 10



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

0121 -000 (010) VV 1 0707 (010)	contract and anticological contract and the second con	ANALYSIS BEOLIEST
Company Name: 70(011 LPE	Section of the Control of the Contro	
Project Manager: S. Hitchcock	P.O. #:	
Address: 408 W. Texus	company: E OO	
2	attn: 2an Kurtz	
89,8.944-547#0	Address:	
700 438.1	o6 city:	
me: Dinochlo 15000 5	(DMZ) State: Zip:	
784.55r	Phone #:	
& Mithococ	Fax #:	
	MATRIX PRESERV SAMPLING	
Lab I.D.  Sample I.D.	R: BASE: COOL	PH STEX blori
H 10736	GROU	
52 5	11 7 4 48-1711/S	<u> </u>
72 5-3		1 2 X
3 S-3	311 1	
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17 5.3 5,	1 X X,	3
6 5-3 6	1 1 1215	
Transfer of the second	1777	
18 5.5 8°	1) 1 1 1 1 1 1 1 1 1 2 2 5	
PLEASE NOTE: Liability and Damages. Cordinate liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed valved unless made in writing and received the Cardinate within 30 days after complete and any other cause whatsoever shall be deemed valved unless made in writing and received the contract movement of the client of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed valved unless made in writing and received the including those for negligence and any other cause whatsoever shall be deemed valved unless made in writing and received to the client of the applicable analyses.	and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or for, shall be limited to the amount paid by the client for the amount paid by the client for the clie	the applicable
SEYICE, IN TO EXPRIS MANUSAN AND AND AN AND AN AND AN AND AN AND AND	al regardless of whether such claim is based upon any of the above stated reasons or otherwise.	se.

 $\dagger$  Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326  $\chi$ 

Sample Condition
Cool Intact
Yes G Yes
No No

Sampler - UPS - Bus - Other:# 75

Delivered By: (Circle One)

Relinquished By:

Time

Received By:

Phone Result:
Fax Result:
REMARKS:

☐ Yes ☐ No

Add'l Phone #: Add'l Fax #:

STOP CI = 250 mg/kg

Time:

Relinquished By:

Page 9 of 10



101 East Marland, Hobbs, NM 88240

(575) 303-2326 FAX (575) 393-24/6			
Company Name: (////////////////////////////////////	The state of the s	management protections of the control of the contro	ANALYSIS REQUEST
Project Manager: S. Lite Gools	P.O. #:	.#:	
A40	Con	Company: EOC	
city: Chresic , State: MM Zip:		Attn: Leine Kurtz	
Phone #: 575-746-8768 Fax #:	Add	Address:	
~>	COO city:		
Project Name: Hinochile RMP St	Con 34 State:	te: Zip:	
Project Location: 0-12-255-28 E	Pho	Phone #:	<u> </u>
Sampler Name: S. Hitchcock	Fax		
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	<i>'</i>
Lab I.D. Sample I.D.	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	and the same of th	TPH BTEX Chlori
20 <-> /0		J 9.6-11/230	4
2 28 <-> (7)	And the state of t	1235	4
n 23 5-3 (4)	6	( " 124/0	*
•		AND THE PROPERTY OF THE PROPER	
			•
	to to to the same of the same	d shall be limited to the amount gaid by the client for the	the

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2526 + 25 c

Sampler - UPS - Bus - Other: #15

Delivered By: (Circle One)

Time:

Received By:

Phone Result: Fax Result: REMARKS:

☐ Yes ☐ No Add'I Phone #:

Stop Cl = 250 mg/Kg

Relinquished By:

Relinquished By:

Page 10 of 10



October 09, 2017

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: PINOCHLE BNP ST COM 2 H

Enclosed are the results of analyses for samples received by the laboratory on 10/04/17 12:25.

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

10/04/2017

Reported:

10/09/2017

Project Name:

PINOCHLE BNP ST COM 2 H

Project Number:

700438.199.01

Project Location:

D-22-25S-28E

1070

16.0

Sampling Date:

Sampling Type:

ing Type: Soil

ndition.

Sampling Condition: Sample Received By: Cool & Intact

10/02/2017

Tamara Oldaker

## Sample ID: HA -1 0' (H702690-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					w//***********************************
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/05/2017	ND	416	104	400	3.77	
Sample ID: HA -1 1' (H70	)2690-02)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC			·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/05/2017	ND	416	104	400	3.77	
Sample ID: HA -1 2' (H70	02690-03)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/05/2017	ND	416	104	400	3.77	
Sample ID: HA -1 3' (H70	)2690-04)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

10/05/2017

## Cardinal Laboratories

Chloride

\*=Accredited Analyte

3.77

PLEASE NOTE: Liability and Damages. Cardinal's fability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the appticable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

ND

416

104

400

Celey & Kenne



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

Received: Reported: 10/04/2017

10/09/2017

Project Name:

PINOCHLE BNP ST COM 2 H

Project Number:

700438.199.01 Project Location:

Sampling Date:

10/02/2017 Soil

Sampling Type:

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

D-22-25S-28E

Sample ID: HA -1 4' (H702690-05)

mq	/kg

## Analyzed By: AC

Analyte
---------

Result 800

Result

32.0

Reporting Limit 16.0

Analyzed 10/05/2017

Method Blank ND

416

BS

104

% Recovery

104

104

True Value QC 400

RPD 3.77 Qualifier

Sample ID: HA -2 0' (H702690-06)

Chloride.	SM4500CI-B

Analyte

## Analyzed By: AC

Analyzed Method Blank BS % Recovery True Value QC

Chloride

Chloride

Chloride

Chloride

16.0

Reporting Limit

16.0

16.0

Reporting Limit

16.0

10/05/2017

ND

416

BS

416

400

RPD Qualifier

Sample ID: HA -2 1' (H702690-07)

## Chloride, SM4500Cl-B

## mg/kg

mg/kg

## Analyzed By: AC

Result Reporting Limit Analyte

16.0

Result

32.0

Result

48.0

Analyzed 10/05/2017

10/05/2017

10/05/2017

Method Blank ND

% Recovery

True Value OC

400

RPD 3.77

3.77

Qualifier

Sample ID: HA -2 2' (H702690-08)

## Chloride, SM4500CI-B

## mg/kg

## Analyzed By: AC

Reporting Limit Analyzed Method Blank

ND

ND

BS

416

% Recovery 104

True Value QC 400

RPD 3.77

Qualifier

Sample ID: HA -2 3' (H702690-09)

## Chloride, SM4500Cl-B

## mg/kg

## Analyzed By: AC

	Analyte	
Chloride		

Analyte

Analyzed Method Blank

BS % Recovery 416 104

True Value QC 400

RPD 3.77

Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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Celeg & treens-



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

Received:

10/04/2017

Reported:

10/09/2017

Project Name:

PINOCHLE BNP ST COM 2 H

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Project Number:

700438,199,01

Project Location:

Analyte

Analyte

Analyte

D-22-25S-28E

Sampling Date:

BS

416

BS

416

BS

416

BS

416

10/02/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: HA -2 4' (H702690-10)

Chloride, SM4500CI-B

Chloride

Chloride

Chloride

mg/kg

Result

80.0

Result

48.0

Result

<16.0

Analyzed By: AC

Analyzed

10/05/2017

Analyzed

10/05/2017

Analyzed

10/05/2017

Method Blank ND

Method Blank

ND

% Recovery

True Value QC

RPD

3.77

Sample ID: HA -3 0' (H702690-11)

Chloride, SM4500CI-B

Analyzed By: AC

% Recovery

104

104

104

True Value QC

400

400

RPD

3.77

Qualifier

Qualifier

Sample ID: HA -3 1' (H702690-12)

Chloride, SM4500Cl-B

mg/kg

mg/kg

Analyzed By: AC

Method Blank

% Recovery

True Value QC

400

400

RPD

3.77

Qualifier

Sample ID: HA -3 2' (H702690-13)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyte Chloride

Result 16.0

Reporting Limit Analyzed 16.0 10/05/2017 Method Blank ND

ND

% Recovery

104

104

True Value QC

RPD

3.77

Qualifier

Chloride

Sample ID: HA -3 3' (H702690-14)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte

Result

<16.0

Analyzed 10/05/2017 Method Blank ND

BS 416 % Recovery True Value QC 400

RPD 3.77 Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Keene -



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

10/04/2017

Sampling Date:

10/02/2017

Reported:

10/09/2017

Sampling Type:

Soil

Project Name:

PINOCHLE BNP ST COM 2 H

Sampling Condition:

Cool & Intact

Project Number:

700438.199.01

Project Location:

D-22-25S-28E

Sample Received By:

Tamara Oldaker

## Sample ID: HA -3 4' (H702690-15)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/05/2017	ND	416	104	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

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alleg to Kenne



ND

## **Notes and Definitions**

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  $6^{\circ}$ C Samples reported on an as received basis (wet) unless otherwise noted on report

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Keens



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

Project Manager: DAU O ADIZIOS PO#: Zene /Zurtz Address: 408 W. Texas Ave. City: Artesia state: NM zid: 88210 Attn: メント	
W. Texas Ave. Company State: NM Zip: 88210 Attn:	
State: NM Zip: 88210	
The same of the sa	
Campey	
S	
TY Zip: 79706	
Phone #:	
Fax #:	
MATRIX PRESERV. SAMPLING	
AB OR (C)OMP NTAINERS UNDWATER TEWATER  OGE ER: //BASE: COOL ER:	
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4 / <del>4</del> / 3 ·	
	made (Antidot) and the destinate of the Co.
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Relinquished By:

Kolinguished By:

Sampler - UPS - Bus - Other:

がで

Sample Condition
Cool Intact
Yes 4 Yes

3

\* Cordinal connect accept to the later Dieses

Delivered By: (Circle One) +175

Date:

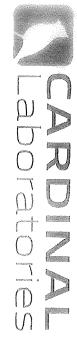
E.

Phone Result: Fax Result: REMARKS:

□ Yes □ No

Add'l Phone #: Add'l Fax #:

0:19.2



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

**************************************		B/LL 70	ANALYSIS REQUEST	
Project Manager: フんしつ ADILWS		P.O.非 Bane Kurts		
Address: 408 W. Texas Ave.	Cc	Company: Talen/LPE		
ांप: Artesia state: NM	State: NM Zip: 88210 At	Attn: EDG		CHARACTER STATE OF THE STATE OF
Phone #: 575-746-8768	Fax #: 575-746-8905 Ac	Address: 5509 Champian		
Project #: 700 438, 199. 01 Project Owner:	808	city: Mr deland		
Project Name: Proochle BN7 S	COM 2#	State: TX Zip: 79706		
Project Location: Exchy to No		#		
ampier Name: マーみつにいか		Tax #:		
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING		
HID266	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER: DATE	Ch lori	
11 FA-V 0		11/2/42		
12 44-8	1			
16A- 32 2	1			
14 14-33		# 111111111 - 11111 1 1 1 1 1 1 1 1 1 1		
5 14 3		Annual of the same		
ANNESS NOT IC. Liability and Damages. Cardina's liability and client's exclusive remady for any claim arising whether based in contract or tort, shall be limited to the amount paid by the cleint for the	any daim ansing whether based in contract or tort	t, shall be irreled to the amount paid by the client	ior the	

Relinquished By:

Delivered By: (Circle One 475

N.356.8.1

Sample Condition
Cool Intact
Ches Gres
No No

) [ Date:

Received By:

anquished By:

the parformance of services hereunder by Oatte:

| Date: 4-7 |
| Time: 25

rainal, regardless of whether such claim is based upon any Received By:

Phone Result:
Fax Result:
REMARKS:

☐ Yes ☐ No Add'I Phone☐ Yes ☐ No Add'I Fax#:

P. 2002



October 09, 2017

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: PINOCHLE BNP ST COM 2 H

Enclosed are the results of analyses for samples received by the laboratory on 10/04/17 12:05.

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

10/04/2017

Reported:

10/09/2017

Project Name: Project Number: PINOCHLE BNP ST COM 2 H

Project Location:

700438.199.01 D-22-25S-28E

Sampling Date:

10/02/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: S-4 0' (H702691-01)

Chloride, SM4500CI-B

Chloride

Chloride

mg/kg

Analyzed By: AC

Analyte

Result

16.0

Result

32.0

Reporting Limit 16.0

Reporting Limit

16.0

Analyzed 10/05/2017

Analyzed

10/05/2017

Method Blank ND

BS 416

BS

416

% Recovery 104

True Value QC 400

RPD

3.77

Qualifier

Sample ID: S-5 0' (H702691-02)

Analyte

Analyte

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Method Blank

ND

% Recovery

104

True Value QC 400

RPD

Qualifier

Sample ID: S-6 0' (H702691-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyzed

Method Blank

BS % Recovery True Value QC

RPD

3,77

Qualifier

Chloride

Chloride

64.0

Result

48.0

Result

16.0

Reporting Limit

16.0

Reporting Limit

10/05/2017

ΝD

Method Blank

ND

416

400

3.77

RPD

3.77

Sample ID: S-7 0' (H702691-04)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyzed

10/05/2017

BS

416

% Recovery 104

104

True Value QC 400

Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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ally thema-



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

Received:

10/04/2017

Reported:

10/09/2017

Project Name: Project Number: PINOCHLE BNP ST COM 2 H

Project Location:

700438.199.01 D-22-25S-28E Sampling Date:

Sampling Type:

10/02/2017

ng Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: S-8 0' (H702691-05)

Chloride, SM4500CI-B

Chloride

Chloride

mg/kg

Analyzed By: AC

Analyte

Result

32.0

Reporting Limit

16.0

Analyzed 10/05/2017

Method Blank ND

416

BS

% Recovery 104

True Value QC 400 RPD 3.77

Qualifier

Sample ID: S-9 0' (H702691-06)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte Result Reporting Limit

16.0 16.0

Analyzed 10/05/2017 Method Blank ND BS 416 % Recovery 104 True Value QC 400 RPD 3.77 Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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Celey & Keene



ND

## **Notes and Definitions**

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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Keene



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

laiviller T	BILL 70
1	
Address: 408 W. Texas Ave.	Company: Talon/I DF
State: NM zip: 88210	Attn: Pare // 17th
768 Fax #: 575-	ろ T
00438. 199.01 Project Owner: 606	City: W. D. C.
BNP St Com 24	State: TY Zip: 7970 C
n: Eddy Co, NM	#:
e: J FOKWS	Fax#:
MATRIX	PRESERV SAMPLING
RS TER	Orus
****************	ASE: OOL
# CON GROU WAST SOIL DIL BLUDC	DTHEF CID/B CE/C DTHEF DATI
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NAMES NOTE: LIBITA INC. DESCRIPTION OF THE PROPERTY OF THE PRO	
analyses. All claims including those for registence and any other cause wherever variety or any claim arising whether based in contract or lost, shall be britted to the amount paid by the client for the service unless that be deemed welved unless made in writing and received by Cardinal within 30 days after completion of the applicable.	ort, shall be limited to the amount paid by the client for the relevant of the Coordinal within 30 days after completion of the applicable
Cardinal, regardless of standard to the performance of sendings thereunder by Cardinal, regardless of whether such claim is based upon any of the above stated.  Date: / / Received By:	
4767	ult:    Yes    No
Times	Yes □ No Add'l Fax #:
Date: Received By:	
Sampler - UPS - Bus - Other: 12 7 7 0 1 Coul Intact	CHECKED BY:
No No No	7

Corrillad rounds occount variation channes Diases for uffitten, and one to the total occupant In