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Remediation and Closure Report

Hawk 9 F Federal #7 Transfer line API #30-015-33182 * 2RP-4909

Prepared For:

Lime Rock Resources 1111 Bagby Street Suite 4600 Houston, TX 77002

Prepared By:

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

February 15, 2019

Received by OCD: 5/15/2020 8:45:38 AM

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

Subject:

Remediation and Closure Report

Hawk 9 F Federal #7 Transfer Line API #30-015-33182 * 2RP-4909

Dear Mr. Bratcher,

Lime Rock Resources (Lime Rock) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above-referenced location. The results of our soil assessment and remediation activities consisted of the following.

Site Information

The Hawk 9 F Federal #7 Transfer Line is located approximately fourteen (14) miles southeast of Artesia, New Mexico. The legal location for this release is Unit Letter F, Section 09, Township 18 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.7659732 North and -104.2865372 West.

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 Gypsum land and Gypsum land-Cottonwood complex with 0 to 3 percent slopes. The local surface and shallow geology are middle to lower Pleistocene in age and is comprised of alluvial deposits. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

The New Mexico Office of the State Engineer database indicates that the average depth to groundwater is 50-feet 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 groundwater 50-99'
Wellhead Protection Area >1000'
Distance to surface water body >1000'

Based upon the site ranking of 10, the New Mexico Oil and Conservation Division (NMOCD) Recommended Remedial Action Levels (RRAL) at the of this release were 50 mg/kg for BTEX, 10 mg/kg for Benzene, 1,000 mg/kg for TPH. The NMOCD recommended guidelines for total chlorides were 600 mg/kg.

Incident Description and Initial Remedial Actions

On July 23, 2018, the poly transfer line from the Hawk 9 battery ruptured resulting in the release of 35 barrels of produced water along the lease road pooling on the north and east sides of the Hawk 9 #7 location. The transfer line was isolated, repairs were made. No fluids were recovered. A site plan is presented in Appendix I.

On July 25, 2018, Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected utilizing a hand auger to depths of which hard rock refusal was encountered. The analytical results are presented in the following data table.

Laboratory Results

See Appendix III for a complete report of laboratory results.

July 25, 2018, Soil Sample Analysis

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) DRO	TPH (mg/kg) MRO	TPH (mg/kg) GRO	Total TPH
BG-1	0		ND				
R	0.5		36				
							为其是
BG-2	0		38				
R	0.5	-	57	-	-	-	=
BG-3	0		ND				
BG-4	0		78				
R	0.5		ND				
BG-5	0		ND				
R	0.5		ND				
S-1	0	ND	9800	5000	2200	ND	7200
	1		5100				
R	1.5		3700				
S-2	0	ND	10000	ND	ND	ND	ND
R	1		430				

Sample	Depth	BTEX	Chlorides	TPH	TPH	TPH	Total
ID	(feet)	(mg/kg)	(mg/kg)	(mg/kg) DRO	(mg/kg) MRO	(mg/kg) GRO	TPH
S-3	0	ND	34000	81	81	ND	162
R	0.5		11000				
S-4	0	ND	43000	19	ND	5.8	24.8
	1		330				
R	2		360				
S-5	0	ND	21000	ND	ND	ND	ND
	1		1300				
	2		260				
R	3		45				
S-6	0	ND	30000	ND	ND	ND	ND
	1		5600				
	2		360				
	3		480				
	7 300						
S-7	0	ND	37000	ND	ND	ND	ND
R	1		2200				

(--) Analyte Not Tested, (ND) Analyte Not Detected, (R) Refusal with Hand Auger, (BG) Background Samples

On August 23, 2018, Talon personnel returned to the location to conduct further vertical and horizontal delineation with the assistance of a backhoe. The analytical results are presented in the following data table.

August 23, 2018, Soil Sample Analysis

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) DRO	TPH (mg/kg) MRO	TPH (mg/kg) GRO	Total TPH
S-1	1	ND	11800	ND	ND	ND	ND
R	2	ND	2200	ND	ND	ND	ND
S-3	1		12800				
	2		496				
	4		144				
	6		464				
	8		272				
			HALF MA PAR				
S-7	1		2160				
	2		3480				

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Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) DRO	TPH (mg/kg) MRO	TPH (mg/kg) GRO	Total TPH
S-7	3		1090				
	4		1040				
R	5		720				
				A COLUMN			

(--) Analyte Not Tested, (ND) Analyte Not Detected, (R) Refusal with Backhoe

Based on the analytical results Talon proceeded with the excavation of the contaminated areas. Field titrations for total chlorides and analytical testing were continually utilized to guide the excavation activities. The analytical results are presented in the following data tables.

October 12, 2018, Soil Sample Analysis

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) DRO	TPH (mg/kg) MRO	TPH (mg/kg) GRO	Total TPH
S-3	Bottom Composite	ND	2400	ND	ND	ND	ND
S-6	N. Sidewall S. Sidewall	ND ND	6080 1220	ND ND	ND ND	ND ND	ND ND
S-7	N. Sidewall S. Sidewall W. Sidewall	ND ND ND	1040 1380 1500	ND ND ND	ND ND ND	ND ND ND	ND ND ND

(ND) Analyte Not Detected

October 17, 2018, Soil Sample Analysis

Sample ID	Depth (feet)	Chlorides (mg/kg)
S-3	Bottom	7200
	N. Sidewall	1230
	S. Sidewall	6080
	E. Sidewall	1260
	W. Sidewall	4400
S-6	Bottom	4480
	N. Sidewall	1410
	S. Sidewall	5120
S-6	E. Sidewall	3440
	W. Sidewall	1330
S-7	Bottom	3120

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Sample ID	Depth (feet)	Chlorides (mg/kg)
S-7	N. Sidewall	1570
	S. Sidewall	240
	E. Sidewall	176
	W. Sidewall	320

October 19, 2018, Soil Sample Analysis

Sample ID	Depth (feet)	Chlorides (mg/kg)
S-6	N. Sidewall	800
	S. Sidewall	384
S-7	W. Sidewall	320
	N. Sidewall	1640

October 30, 2018, Soil Sample Analysis

Sample ID	Depth (feet)	Chlorides (mg/kg)
S-6	N. Sidewall	320
S-7	N. Sidewall	208

Talon continued to delineate and excavate vertically and horizontally as best as possible due to the rocky terrain and presence of hard rock refusal.

October 31, 2018, Soil Sample Analysis

Sample ID	Depth (feet)	Chlorides (mg/kg)
S-3	1.5' Bottom	32
	N. Sidewall	96
	S. Sidewall	96
	E. Sidewall	128
	W. Sidewall	128
S-6	2' Bottom	96
	E. Sidewall	112
	W. Sidewall	32
S-7	4' Bottom	16

Remedial Actions Taken:

- The impacted area in the vicinity of S-1 and S-2 along the lease road was excavated to a depth of 2.0 feet deep.
- The impacted area in the vicinity of S-3 and S-4 pooling areas were excavated to a depth of 1.5 to 2.0-feet.
- The impacted area in the vicinity of S-5 to S-6 was excavated to a depth of 2.0 feet deep.
- The impacted area in the vicinity of S-7 was excavated to a depth of 4.0 feet deep until the excavation was met with hard rock refusal with a backhoe.
- Unfortunately, excavation depths were met with hard rock refusal throughout the remediation process. Therefore excavation was completed to maximum depths possible. Appendix IV provides photographic documentation of this process.
- All of the excavated material yards was transported to R360 and Lea Land, LLC, both NMOCD approved solid waste disposal facilities.
- The excavated areas were backfilled with locally obtained topsoil, machine compacted and contoured to match the surrounding terrain.
- The site was then seeded with BLM #1 seed mixture in accordance with the soil survey from the United States Department of Agriculture, Natural Resources Conservation Services (Appendix II).
- A Final C-141 Form is attached in (Appendix III).

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Closure

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

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

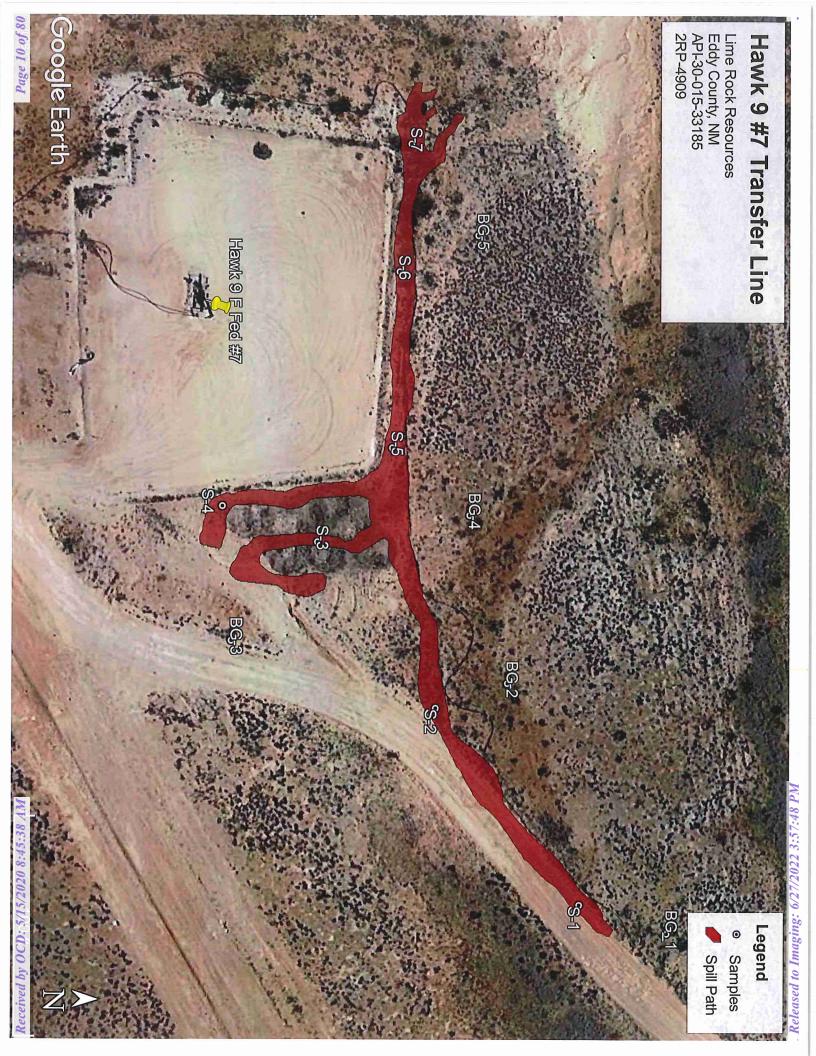
Appendix II Groundwater Data & Soil Survey

Appendix III Final C-141 Appendix IV Photographs

Appendix V Laboratory Results

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APPENDIX I SITE PLAN



APPENDIX II

GROUNDWATER DATA

SOIL SURVEY





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

POD suffix indicates the POD has been replaced & no longer serves a water right

(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

4 1 2 10 18S 27E

(NAD83 UTM in meters) largest)

(In feet)

POD

QQQ Sub-

RA

X

569019 3625660*

POD Number RA 03714

RA 03917

Code basin County 6416 4 Sec Tws Rng RA CH 4 4 2 08 18S 27E

566212 3625253*

DistanceDepthWellDepthWater Column 381

711 2125

130

50 80

Average Depth to Water:

50 feet

Minimum Depth:

50 feet

Maximum Depth:

50 feet

Record Count:2

UTMNAD83 Radius Search (in meters):

Easting (X): 566915

Northing (Y): 3625360

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

2/16/19 2:00 PM

WATER COLUMN/ AVERAGE DEPTH TO

Eddy Area, New Mexico

GA—Gypsum land

Map Unit Setting

National map unit symbol: 1w4f Elevation: 1,250 to 5,000 feet

Mean annual precipitation: 10 to 25 inches Mean annual air temperature: 57 to 66 degrees F

Frost-free period: 190 to 225 days

Farmland classification: Not prime farmland

Map Unit Composition

Gypsum land: 100 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Gypsum Land

Setting

Landform: Ridges, hills, plains

Landform position (two-dimensional): Toeslope, shoulder,

footslope, backslope

Landform position (three-dimensional): Side slope, crest, nose

slope, head slope Down-slope shape: Convex Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8s

Hydric soil rating: No

Minor Components

Reeves

Percent of map unit:

Ecological site: Salty Bottomland (R042XC033NM)

Hydric soil rating: No

Cottonwood

Percent of map unit:

Ecological site: Salty Bottomland (R042XC033NM)

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 13, Sep 9, 2017



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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

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

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Surface Ow	ner Privat	e		Mineral ()wner	State			API No	. 30-015-	29026	i	
				LOCA	OITA	N OF RE	LEASE						
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the		West Line	County			
F	09	18S	27E	1500	L	N	1650		W	Eddy			
			La	titude 32.76537	32 L	ongitude -10	04.2865372 NA	D83					
				NAT	URE	OF REL	EASE						
Type of Rele	ase Produc	ed Water				Volume of	0						
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Source of Re	lease Poly	Transfer Line	;			7-22-18 1	lour of Occurrence 4:30	e	7-23-18	Hour of Dis 14:30	covery		
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produced wat	er down the	road and on	the side of	f the Hawk 9 #7 le	ory tran	The line was	isolated and repair	ry spin irs were	made to the	e poly line.	No flu	rreis of ids were	
recovered. T	alon mobili	zed personne	l and equi	pment to the loca	ion and	l conducted re	medial work for the	he remo	val of the c	ontaminated	l areas		
Describe Are	a Affected a	nd Cleanup A	Action Tak	ten.* The spill to	avelled	down the road	d app 150'. It then was used to dig	n went	off the road	and travelle	d app	another 300'	
with refusal b	eing met ald	ong the excav	ation. Cor	nfirmation sample	s were	taken to help g	guide the cleanup	process	. The exca	vated soil w	sı as pı as tran	sported to a	
NMOCD app	roved dispos	sal facility.											
I hereby certi	fy that the ir	nformation give	ven above	is true and comp	lete to t	he best of my	knowledge and ur nd perform correct	nderstar	nd that purs	uant to NM	OCD r	ules and	
public health	or the envir	onment. The	acceptanc	te of a C-141 repo	rt by th	e NMOCD m	arked as "Final Re	nve acu eport" d	ons for rele	eases writen eve the oper	may er ator of	liability	
should their o	perations ha	eve failed to a	dequately	investigate and r	emediat	e contaminati	on that pose a thre	at to gr	ound water	, surface wa	ter, hu	man health	
or the enviror federal, state,	ment. In ad	ldition, NMO	CD accep	tance of a C-141	report c	loes not relieve	e the operator of r	esponsi	bility for co	ompliance w	ith any	other	
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Printed Name	: Mike Barı	rett				Approved by	Environmental Sp	ecialist	Jocely	/n Harim	on		
Title: Produc	ction Superi	ntendent				Approval Dat	e: 06/27/202	2 .	Expiration I	Onto:			
						Approvat Dat	. JOIZITZUZ	- 1	Expiration I	Jale.			
E-mail Addre	ss: mbarret	t@limerockr	esources.c	com		Conditions of	Approval:			Attached			
Date: 11-	5-18	I	Phone: 57	5-365-9724									

* Attach Additional Sheets If Necessary

APPENDIX IV

PHOTOGRAPHS

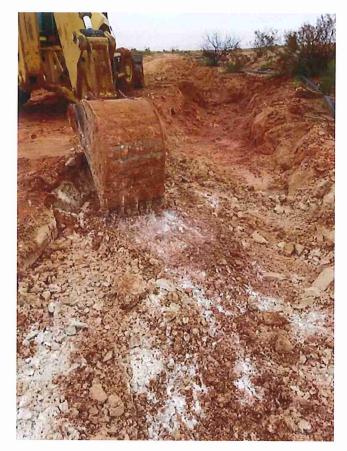
Refusal













APPENDIX V

LABORATORY RESULTS

Received by OCD: 5/15/2020 8:45:38 AM



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

February 13, 2019

Chris Jones

Talon Artesia 408 West Texas Ave Artesia, NM 88210

TEL: (806) 467-0607 FAX (806) 467-0622

RE: Hawk 9 #7 Transfer Line

OrderNo.: 1807E64

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 33 sample(s) on 7/26/2018 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued August 03, 2018.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 1807E64

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/13/2019

		<i>V</i>)	-
	Talon Artesia Hawk 9 #7 Transfer Line		Lab Order: 1807E64
Lab ID:	1807E64-001		Collection Date: 7/25/2018 7:00:00 AM
Client Sample ID:	BG-1 0'		Matrix: SOIL
Analyses		Result	RL Qual Units DF Date Analyzed Batch ID
EPA METHOD 300 Chloride	D.0: ANIONS	ND	Analyst: MRA 30 mg/Kg 20 8/1/2018 12:47:11 AM 39502
Lab ID:	1807E64-002		Collection Date: 7/25/2018 7:02:00 AM
Client Sample ID:	BG-1 0.5'		Matrix: SOIL
Analyses		Result	RL Qual Units DF Date Analyzed Batch ID
EPA METHOD 300 Chloride	D.O: ANIONS	36	Analyst: MRA 30 mg/Kg 20 8/1/2018 12:59:35 AM 39502
Lab ID:	1807E64-003	The second of the second of the second	Collection Date: 7/25/2018 7:04:00 AM
Client Sample ID:	BG-2 0'		Matrix: SOIL
Analyses		Result	RL Qual Units DF Date Analyzed Batch ID
EPA METHOD 300	0.0: ANIONS		Analyst: MRA
Chloride		38	30 mg/Kg 20 8/1/2018 1:12:00 AM 39502
Lab ID:	1807E64-004		Collection Date: 7/25/2018 7:06:00 AM
Client Sample ID:	BG-2 0.5'		Matrix: SOIL
Analyses		Result	RL Qual Units DF Date Analyzed Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	57	Analyst: MRA 30 mg/Kg 20 8/1/2018 1:24:25 AM 39502
Lab ID:	1807E64-005		Collection Date: 7/25/2018 7:08:00 AM
Client Sample ID:	BG-3 0'		Matrix: SOIL
Analyses		Result	RL Qual Units DF Date Analyzed Batch ID
EPA METHOD 30	0.0: ANIONS		Analyst: MRA
Chloride		ND	30 mg/Kg 20 8/1/2018 1:36:49 AM 39502

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 Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit

Analytical Report

Lab Order: 1807E64

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/13/2019

CLIENT: Talon Artesia Lab Order: 1807E64 Project: Hawk 9 #7 Transfer Line Collection Date: 7/25/2018 7:12:00 AM Lab ID: 1807E64-007 Matrix: SOIL Client Sample ID: BG-4 0' Analyses Result RL Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 78 30 8/1/2018 2:01:37 AM 39502 mg/Kg Lab ID: 1807E64-008 Collection Date: 7/25/2018 7:14:00 AM Matrix: SOIL Client Sample ID: BG-4 0.5' Result RL Qual Units DF Date Analyzed **Batch ID** Analyses **EPA METHOD 300.0: ANIONS** Analyst: MRA ND 30 8/1/2018 2:38:52 AM 39502 Chloride mg/Kg Lab ID: 1807E64-009 Collection Date: 7/25/2018 7:16:00 AM Client Sample ID: BG-5 0" Matrix: SOIL RL Qual Units DF Date Analyzed Analyses Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA ND 39502 Chloride 30 mg/Kg 8/1/2018 2:51:16 AM 20 Collection Date: 7/25/2018 7:18:00 AM 1807E64-010 Lab ID: Matrix: SOIL Client Sample ID: BG-5 0.5' Result RL Qual Units DF Date Analyzed **Batch ID** Analyses **EPA METHOD 300.0: ANIONS** Analyst: MRA

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

ND

30

Qualifiers:

Chloride

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

- В Analyte detected in the associated Method Blank
- E Value above quantitation range

mg/Kg

Analyte detected below quantitation limits Page 2 of 14

8/1/2018 3:03:40 AM

39502

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- P Sample pH Not In Range
- RLReporting Detection Limit

CLIENT:

Project:

Lab ID:

Analyses

Chloride

Surr: DNOP

Surr: BFB

Benzene

Toluene

Lab ID:

Analyses

Chloride

Lab ID:

Analyses

Chloride

Ethylbenzene

Xylenes, Total

Client Sample ID: S-1 0'

EPA METHOD 300.0: ANIONS

Diesel Range Organics (DRO)

Motor Oil Range Organics (MRO)

Gasoline Range Organics (GRO)

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

Client Sample ID: S-1 1'

EPA METHOD 300.0: ANIONS

Client Sample ID: S-1 1.5'R

EPA METHOD 300.0: ANIONS

EPA METHOD 8015D: GASOLINE RANGE

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information. Qualifiers: Value exceeds Maximum Contaminant Level. В E Value above quantitation range D Sample Diluted Due to Matrix Η Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P PQL Practical Quanitative Limit Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Result

9800

5000 2200

0

ND

ND

ND

ND

ND

101

Result

5100

Result

3700

91.4

Hawk 9 #7 Transfer Line

1807E64-013

EPA METHOD 8015M/D: DIESEL RANGE ORGANICS

1807E64-014

1807E64-015

Talon Artesia

	oodd-sadadalaansa Edwir	La	ıb O	rder: 18	307E64	
C	ollecti	on Date:	7/2	5/2018 7:24:0	0 AM	
		Matrix:	SO	IL		
RL	Qual	Units	DF	Date Analyze	ed B	atch ID
					Analys	t: JRR
300		mg/Kg	200	8/2/2018 1:33:	02 AM	39502
					Analys	t: Irm
100		mg/Kg	10	8/1/2018 3:01:	27 PM	39509
500		mg/Kg	10	8/1/2018 3:01:	27 PM	39509
50.6-138	S	%Rec	10	8/1/2018 3:01:	27 PM	39509
					Analys	t: NSB
4.6		mg/Kg	1	8/1/2018 11:08	3:18 AM	39506
15-316		%Rec	1	8/1/2018 11:08	3:18 AM	39506
					Analys	t: NSB
0.023		mg/Kg	1	8/1/2018 11:08	3:18 AM	39506
0.046		mg/Kg	1	8/1/2018 11:08	3:18 AM	39506
0.046		mg/Kg	1	8/1/2018 11:08	3:18 AM	39506
0.092		mg/Kg	1	8/1/2018 11:08	3:18 AM	39506
80-120		%Rec	1	8/1/2018 11:08	3:18 AM	39506
C	ollecti	on Date:	7/2	5/2018 7:26:0	0 AM	····-
		Matrix:	SO	IL		
RL	Qual	Units	DF	Date Analyze	ed B	atch ID
					Analys	t: JRR
300		mg/Kg	200	8/2/2018 1:45:	26 AM	39516
C	ollecti	on Date:	7/2	5/2018 7:28:0	0 AM	
		Matrix:	SO	IL		
RL	Qual	Units	DF	Date Analyze	ed B	atch ID

Analytical Report Lab Order: 1807E64

Date Reported: 2/13/2019

150

3 Analyte detected in the associated Metho	T DISHK	

Analyte detected below quantitation limits Page 3 of 14

100 8/2/2018 2:22:40 AM

Analyst: JRR

39516

Released to Imaging: 6/27/2022 3:57:48 PM

Sample pH Not In Range

mg/Kg

Analytical Report

Lab Order: 1807E64

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/13/2019

CLIENT: Talon Artesia Lab Order: 1807E64 Project: Hawk 9 #7 Transfer Line Collection Date: 7/25/2018 7:30:00 AM Lab ID: 1807E64-016 Matrix: SOIL Client Sample ID: S-2 0' RL Qual Units DF Date Analyzed **Analyses** Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: JRR Chloride 10000 750 500 8/2/2018 2:35:04 AM 39516 mg/Kg **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: Irm 39509 Diesel Range Organics (DRO) ND 9.8 mg/Kg 8/1/2018 4:52:25 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 8/1/2018 4:52:25 PM 39509 Surr: DNOP 76.2 50.6-138 %Rec 8/1/2018 4:52:25 PM 39509 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB ND 8/1/2018 12:42:03 PM 39506 Gasoline Range Organics (GRO) 4.7 mg/Kg 1 8/1/2018 12:42:03 PM Surr: BFB 96.6 15-316 %Rec 39506 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 0.023 8/1/2018 12:42:03 PM 39506 Benzene mg/Kg 0.047 8/1/2018 12:42:03 PM 39506 Toluene ND mg/Kg ND 0.047 8/1/2018 12:42:03 PM 39506 Ethylbenzene mg/Kg Xylenes, Total ND 0.094 mg/Kg 8/1/2018 12:42:03 PM 39506 Surr: 4-Bromofluorobenzene 103 80-120 %Rec 8/1/2018 12:42:03 PM 39506 Collection Date: 7/25/2018 7:32:00 AM Lab ID: 1807E64-017 Matrix: SOIL Client Sample ID: S-2 1' Analyses Result RL Qual Units DF Date Analyzed **Batch ID** Analyst: JRR **EPA METHOD 300.0: ANIONS**

430

30

mg/Kg

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

Qualifiers:

Chloride

- 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 Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 14

8/1/2018 9:25:11 AM

39516

- P Sample pH Not In Range
- RL Reporting Detection Limit

Analytical Report

Lab Order: 1807E64

Date Reported: 2/13/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Project:	Talon Artesia Hawk 9 #7 Transfer Line			L	ab C	Order: 1807E	64
Lab ID:	1807E64-018		C	ollection Date	: 7/2	25/2018 7:34:00 AI	M
Client Sampl	le ID: S-3 0'			Matrix	: SC	OIL.	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch ID
EPA METHO	DD 300.0: ANIONS					Ana	ılyst: JRR
Chloride		34000	3000	mg/Kg	2E	8/2/2018 2:47:28 A	M 39516
EPA METHO	DD 8015M/D: DIESEL RANGE	ORGANICS				Ana	lyst: Irm
Diesel Rang	e Organics (DRO)	81	9.7	mg/Kg	1	8/1/2018 5:36:34 P	M 39509
•	ange Organics (MRO)	81	49	mg/Kg	1	8/1/2018 5:36:34 P	M 39509
Surr: DNC	OP .	99.4	50.6-138	%Rec	1	8/1/2018 5:36:34 P	M 39509
EPA METHO	DD 8015D: GASOLINE RANGE					Ana	ilyst: NSB
Gasoline Ra	inge Organics (GRO)	ND	5.0	mg/Kg	1	8/1/2018 1:05:28 P	M 39506
Surr: BFB		97.7	15-316	%Rec	1	8/1/2018 1:05:28 P	M 39506
EPA METHO	DD 8021B: VOLATILES					Ana	lyst: NSB
Benzene		ND	0.025	mg/Kg	1	8/1/2018 1:05:28 P	M 39506
Toluene		ND	0.050	mg/Kg	1	8/1/2018 1:05:28 P	M 39506
Ethylbenzen	ne	ND	0.050	mg/Kg	1	8/1/2018 1:05:28 P	M 39506
Xylenes, Tol	tal	ND	0.10	mg/Kg	1	8/1/2018 1:05:28 P	M 39506
Surr: 4-Br	romofluorobenzene	104	80-120	%Rec	1	8/1/2018 1:05:28 P	M 39506
Lab ID:	1807E64-019		C	ollection Date	: 7/2	25/2018 7:36:00 Al	M
Client Sampl	le ID: S-3 0.5'R			Matrix	: SC	DIL	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch ID
EPA METHO	DD 300.0: ANIONS					Ana	alyst: JRR
Chloride		11000	750	mg/Kg	50	0 8/2/2018 2:59:52 A	M 39516

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 Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit

CLIENT:

Ethylbenzene

Xylenes, Total

Chloride

Surr: 4-Bromofluorobenzene

Project:

Q D Η ND

Analytical Report

Lab Order: 1807E64

Lab Order:

Date Reported: 2/13/2019

8/1/2018 1:28:57 PM 8/1/2018 1:28:57 PM

7/31/2018 10:02:49 PM 39516

1807E64

39506

39506

Released to Imaging: 6/27/2022 3:57:48 PM

Hall Environmental Analysis Laboratory, Inc.

Hawk 9 #7 Transfer Line

Talon Artesia

Collection Date: 7/25/2018 7:38:00 AM 1807E64-020 Lab ID: Matrix: SOIL Client Sample ID: S-4 0' RL Qual Units DF Date Analyzed **Batch ID** Result Analyses Analyst: JRR **EPA METHOD 300.0: ANIONS** 8/2/2018 3:12:17 AM 39516 43000 3000 mg/Kg Chloride 2E Analyst: Irm **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** 8/1/2018 6:21:05 PM 39509 Diesel Range Organics (DRO) 19 9.8 mg/Kg 39509 Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/1/2018 6:21:05 PM 39509 93.2 50.6-138 %Rec 1 8/1/2018 6:21:05 PM Surr: DNOP **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 8/1/2018 1:28:57 PM 39506 5.8 47 mg/Kg 1 Gasoline Range Organics (GRO) 8/1/2018 1:28:57 PM 39506 Surr: BFB 108 15-316 %Rec 1 **EPA METHOD 8021B: VOLATILES** Analyst: NSB 8/1/2018 1:28:57 PM 39506 0.024 ND mg/Kg Benzene 0.047 8/1/2018 1:28:57 PM 39506 ND mg/Kg Toluene 39506 8/1/2018 1:28:57 PM

Collection Date: 7/25/2018 7:40:00 AM 1807E64-021 Lab ID:

ND

ND

106

0.047

0.094

30

80-120

mg/Kg

mg/Kg

%Rec

mg/Kg

Matrix: SOIL Client Sample ID: S-4 1'

RL Qual Units DF Date Analyzed **Batch ID** Result Analyses Analyst: JRR **EPA METHOD 300.0: ANIONS**

330 Collection Date: 7/25/2018 7:42:00 AM Lab ID: 1807E64-022

Matrix: SOIL Client Sample ID: S-4 2'

RL Qual Units DF Date Analyzed Result **Batch ID** Analyses

Analyst: JRR **EPA METHOD 300.0: ANIONS** 7/31/2018 10:15:13 PM 39516 360 30 mg/Kg Chloride

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

Qualifiers:	*	Value exceeds	Maximum	Contaminant	Level.

- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- POL Practical Quanitative Limit

- Analyte detected in the associated Method Blank В
- Value above quantitation range Е
- Analyte detected below quantitation limits Page 6 of 14 J
- P Sample pH Not In Range
- RLReporting Detection Limit

CLIENT:

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information. Analyte detected in the associated Method Blank Value exceeds Maximum Contaminant Level. В Qualifiers: Value above quantitation range D Sample Diluted Due to Matrix Ε Analyte detected below quantitation limits Page 7 of 14 Holding times for preparation or analysis exceeded J Η P Sample pH Not In Range Not Detected at the Reporting Limit PQL Practical Quanitative Limit Reporting Detection Limit

Project: Ha	nwk 9 #7 Transfer Line		~~~					
Lab ID:	1807E64-023		C	ollecti	on Date	: 7/2	25/2018 7:44:00 AN	1
Client Sample ID:	S-5 0'				Matrix	: SO	DIL	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch I
EPA METHOD 300.0	0: ANIONS						Anal	yst: JRR
Chloride		21000	1500		mg/Kg	1E	8/2/2018 3:24:41 AM	Л 3951
EPA METHOD 8015	M/D: DIESEL RANGE OR	GANICS					Anal	lyst: Irm
Diesel Range Organi	cs (DRO)	ND	10		mg/Kg	1	8/1/2018 7:05:40 PM	л 3950
Motor Oil Range Org	anics (MRO)	ND	50		mg/Kg	1	8/1/2018 7:05:40 PM	A 3950
Surr: DNOP		101	50.6-138		%Rec	1	8/1/2018 7:05:40 PM	A 3950
EPA METHOD 8015	D: GASOLINE RANGE						Anal	lyst: NSE
Gasoline Range Orga	anics (GRO)	ND	4.8		mg/Kg	1	8/1/2018 2:15:59 PM	и 3950
Surr: BFB	, ,	97.0	15-316		%Rec	1	8/1/2018 2:15:59 PM	и 3950
EPA METHOD 8021	B: VOLATILES						Anal	lyst: NSE
Benzene		ND	0.024		mg/Kg	1	8/1/2018 2:15:59 PM	vi 3950
Toluene		ND	0.048		mg/Kg	1	8/1/2018 2:15:59 PM	vi 3950
Ethylbenzene		ND	0.048		mg/Kg	1	8/1/2018 2:15:59 PM	И 3950
Xylenes, Total		ND	0.096		mg/Kg	1	8/1/2018 2:15:59 PM	И 3950
Surr: 4-Bromofluor	robenzene	107	80-120		%Rec	1	8/1/2018 2:15:59 PM	√ 3950
Lab ID:	1807E64-024		C	ollecti	on Date	: 7/2	25/2018 7:46:00 AN	1
Client Sample ID:	S-5 1'				Matrix	: SC	DIL	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch I
EPA METHOD 300.	0: ANIONS						Ana	lyst: JR F
Chloride		1300	75		mg/Kg	50	8/2/2018 3:37:05 AM	VI 395
Lab ID:	1807E64-025		C	ollecti	on Date	: 7/2	25/2018 7:48:00 AN	Л
Client Sample ID:	S-5 2'				Matrix	: SC	DIL	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch l
EPA METHOD 300.	0: ANIONS						Ana	lyst: JRF
Chloride		260	30		mg/Kg	20	7/31/2018 10:52:28	PM 395

Hall Environmental Analysis Laboratory, Inc.

Talon Artesia

Analytical Report Lab Order: 1807E64

Lab Order:

Date Reported: 2/13/2019

1807E64

Released to Imaging: 6/27/2022 3:57:48 PM

Analytical Report

Lab Order: 1807E64

Date Reported: 2/13/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Lab Order: 1807E64 Project: Hawk 9 #7 Transfer Line Lab ID: 1807E64-026 Collection Date: 7/25/2018 7:50:00 AM Client Sample ID: S-5 3' Matrix: SOIL Analyses Result RL Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: JRR Chloride 45 30 mg/Kg 7/31/2018 11:04:53 PM 39516 Collection Date: 7/25/2018 7:54:00 AM Lab ID: 1807E64-027 Matrix: SOIL Client Sample ID: S-6 0' Result RL Qual Units DF Date Analyzed **Analyses Batch ID EPA METHOD 300.0: ANIONS** Analyst: JRR Chloride 30000 3000 8/2/2018 3:49:30 AM 39516 mg/Kg **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: Irm Diesel Range Organics (DRO) ND 9.8 mg/Kg 8/1/2018 7:49:52 PM 39509 Motor Oil Range Organics (MRO) ND 49 mg/Kg 8/1/2018 7:49:52 PM 39509 1 Surr: DNOP 50.6-138 103 %Rec 8/1/2018 7:49:52 PM 39509 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 8/1/2018 2:39:32 PM Gasoline Range Organics (GRO) ND 4.9 39506 mg/Kg Surr: BFB 93.4 15-316 8/1/2018 2:39:32 PM 39506 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.025 mg/Kg 8/1/2018 2:39:32 PM 39506 Toluene ND 0.049 mg/Kg 8/1/2018 2:39:32 PM 39506 1 Ethylbenzene 0.049 ND mg/Kg 8/1/2018 2:39:32 PM 39506 Xylenes, Total 0.098 mg/Kg ND 8/1/2018 2:39:32 PM 39506 Surr: 4-Bromofluorobenzene 104 80-120 %Rec 8/1/2018 2:39:32 PM 39506 Lab ID: 1807E64-028 Collection Date: 7/25/2018 7:56:00 AM Matrix: SOIL Client Sample ID: S-6 1' Analyses Result RL Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: JRR

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

300

5600

Qualifiers:

Chloride

- 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 Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range

mg/Kg

J Analyte detected below quantitation limits Page 8 of 14

200 8/2/2018 4:01:55 AM

39516

- P Sample pH Not In Range
- RL Reporting Detection Limit

Analytical Report

Lab Order:

Collection Date: 7/25/2018 7:58:00 AM

Lab Order: 1807E64

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/13/2019

1807E64

CLIENT: Talon Artesia Project: Hawk 9 #7 Transfer Line

Lab ID: 1807E64-029

Matrix: SOIL Client Sample ID: S-6 2'

RL Qual Units DF Date Analyzed **Batch ID** Result Analyses

Analyst: JRR **EPA METHOD 300.0: ANIONS** 30 8/1/2018 12:06:56 AM 39516 Chloride 360 mg/Kg

Collection Date: 7/25/2018 8:00:00 AM Lab ID: 1807E64-030

Matrix: SOIL Client Sample ID: S-6 3'

Result RL Qual Units DF Date Analyzed **Batch ID** Analyses Analyst: JRR **EPA METHOD 300.0: ANIONS** 8/1/2018 12:19:21 AM 39516 480 30 Chloride

Lab ID: 1807E64-031 Collection Date: 7/25/2018 8:02:00 AM

Client Sample ID: S-6 4' Matrix: SOIL

RL Qual Units DF Date Analyzed Result **Batch ID** Analyses

Analyst: JRR **EPA METHOD 300.0: ANIONS** 1200 75 mg/Kg 8/2/2018 4:14:19 AM 39516 Chloride

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

Holding times for preparation or analysis exceeded Η

Not Detected at the Reporting Limit ND

PQL Practical Quanitative Limit

Analyte detected in the associated Method Blank В

Е Value above quantitation range

Analyte detected below quantitation limits Page 9 of 14

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P Sample pH Not In Range

Reporting Detection Limit RL

Analytical Report

Lab Order: 1807E64

Date Reported: 2/13/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Lab Order: 1807E64 Project: Hawk 9 #7 Transfer Line Collection Date: 7/25/2018 8:04:00 AM Lab ID: 1807E64-032 Matrix: SOIL Client Sample ID: S-7 0' RL Qual Units DF Date Analyzed **Batch ID Analyses** Result Analyst: JRR **EPA METHOD 300.0: ANIONS** 37000 Chloride 3000 mg/Kg 2E 8/2/2018 4:51:32 AM 39516 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: Irm 8/1/2018 8:34:09 PM 39509 Diesel Range Organics (DRO) ND 9.9 mg/Kg Motor Oil Range Organics (MRO) ND 50 mg/Kg 8/1/2018 8:34:09 PM 39509 39509 Surr: DNOP 89.0 50.6-138 %Rec 1 8/1/2018 8:34:09 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB ND 4.7 mg/Kg 8/1/2018 3:26:39 PM 39506 Gasoline Range Organics (GRO) 1 8/1/2018 3:26:39 PM 39506 15-316 1 Surr: BFB 90.6 %Rec Analyst: NSB **EPA METHOD 8021B: VOLATILES** 8/1/2018 3:26:39 PM ND 0.023 39506 mg/Kg Benzene ND 0.047 mg/Kg 8/1/2018 3:26:39 PM 39506 Toluene 0.047 8/1/2018 3:26:39 PM 39506 ND mg/Kg Ethylbenzene 1 39506 Xylenes, Total ND 0.093 mg/Kg 8/1/2018 3:26:39 PM 80-120 8/1/2018 3:26:39 PM 39506 Surr: 4-Bromofluorobenzene 101 %Rec 1807E64-033 Collection Date: 7/25/2018 8:06:00 AM Lab ID: Matrix: SOIL Client Sample ID: S-7 1'R RL Qual Units DF Date Analyzed **Batch ID** Analyses Result Analyst: JRR **EPA METHOD 300.0: ANIONS**

2200

75

mg/Kg

50

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

Qualifiers:

Chloride

- 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 Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 10 of 14

8/2/2018 5:03:56 AM

39516

- P Sample pH Not In Range
- RL Reporting Detection Limit

Received by OCD: 5/15/2020 8:45:38 AM

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

13-Feb-19

1807E64

WO#:

Client:

Talon Artesia

Project:

Hawk 9 #7 Transfer Line

Sample ID MB-39502

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Prep Date:

Batch ID: 39502

PQL

RunNo: 53117

SeqNo: 1747523

Units: mg/Kg

RPDLimit

Qual

Analyte

7/31/2018

Result

ND

Analysis Date: 7/31/2018

1.5

%REC LowLimit

HighLimit

%RPD

%RPD

Chloride

SampType: Ics

TestCode: EPA Method 300.0: Anions

Sample ID LCS-39502 Client ID: LCSS

Batch ID: 39502

Analysis Date: 7/31/2018

RunNo: 53117 SeqNo: 1747524

Units: mg/Kg

Analyte

Prep Date:

Result 14 **PQL** 1.5

15.00

SPK value SPK Ref Val %REC

95.7

LowLimit HighLimit 90 110 **RPDLimit**

RPDLimit

Qual

Chloride

Sample ID LCS-39516

LCSS

7/31/2018

14

SampType: LCS Batch ID: 39516 TestCode: EPA Method 300.0: Anions

RunNo: 53118

Units: mg/Kg

Qual

Prep Date: Analyte

Client ID:

7/31/2018

Analysis Date: 7/31/2018

1.5

SPK value SPK Ref Val 0

%REC LowLimit

SeqNo: 1747608

90

HighLimit %RPD

Chloride

15.00

SPK value SPK Ref Val

94.8

110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- E Value above quantitation range
- Analyte detected below quantitation limits
- Page 11 of 14

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- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Client:

Talon Artesia

QC SUMMARY REPORT

Project:

Hawk 9 #7 Transfer Line

Hall Environmental Analysis Laboratory, Inc.

Sample ID MB-39509	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch	n ID: 39	509	F	RunNo: 5	3063				
Prep Date: 7/31/2018	Analysis D	ate: 8/	1/2018	S	SeqNo: 1	747957	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.6		10.00		75.9	50.6	138			

Sample ID LCS-39509	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	1D: 39	509	F	RunNo: 5	3063				
Prep Date: 7/31/2018	Analysis D	ate: 8/	1/2018	8	SeqNo: 1	747958	Units: mg/h	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.9	70	130			
Surr: DNOP	3.7		5.000		73.3	50.6	138			

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

QL Practical Quanitative 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

Page 12 of 14

Released to Imaging: 6/27/2022 3:57:48 PM

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Received by OCD: 5/15/2020 8:45:38 AM

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1807E64

13-Feb-19

Client:

Talon Artesia

Project:

Surr: BFB

Hawk 9 #7 Transfer Line

1000

Project: Hawk 9	#7 Transfer Line	
Sample ID MB-39506	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: 39506	RunNo: 53110
Prep Date: 7/31/2018	Analysis Date: 8/1/2018	SeqNo: 1748282 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	ND 5.0	
Surr: BFB	950 1000	94.5 15 316
Sample ID LCS-39506	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS	Batch ID: 39506	RunNo: 53110
Prep Date: 7/31/2018	Analysis Date: 8/1/2018	SeqNo: 1748283 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	27 5.0 25.00	0 109 75.9 131

1000

103

15

316

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
- QL Practical Quanitative 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

Page 13 of 14

- P Sample pH Not In Range
- RL Reporting Detection Limit
 - V Sample container temperature is out of limit as specified

Received by OCD: 5/15/2020 8:45:38 AM

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1807E64

13-Feb-19

Client:

Talon Artesia

Project:

Hawk 9 #7 Transfer Line

Sample ID MB-39506	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles				
Client ID: PBS	Batch	h ID: 39	506	F	RunNo: 5	3110						
Prep Date: 7/31/2018	Analysis D)ate: 8/	1/2018	S	SeqNo: 1	748305	Units: mg/K	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	0.025										
Toluene	ND	0.050										
Ethylbenzene	ND	0.050										
Xylenes, Total	ND	0.10										
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120					
Sample ID LCS-39506	SampT	Type: LC	s	Tes	tCode: El	EPA Method 8021B: Volatiles						
Client ID: LCSS	Batc	h ID: 39	506	F	tunNo: 5	3110						
Prep Date: 7/31/2018	Analysis D)ate: 8/	1/2018	S	SeqNo: 1	748306	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.91	0.025	1.000	0	91.4	77.3	128					
				•		70.0	405					
Toluene	0.95	0.050	1.000	0	94.7	79.2	125					
Toluene Ethylbenzene	0.95 0.93	0.050 0.050	1.000 1.000	0	94.7 93.1	79.2 80.7	125					
				-								
Ethylbenzene	0.93	0.050	1.000	0	93.1	80.7	127					
Ethylbenzene Xylenes, Total	0.93 2.9 1.1	0.050	1.000 3.000 1.000	0	93.1 95.0 106	80.7 81.6 80	127 129	iles				

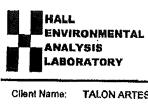
Sample ID 1807E64-013AMS	SampTy	/pe: MS	•	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: S-1 0'	Batch	ID: 39	506	F	RunNo: 5	3110				
Prep Date: 7/31/2018	Analysis Da	ate: 8/	1/2018	S	SeqNo: 1	748309	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.024	0.9488	0.01253	112	68.5	133			
Toluene	1.2	0.047	0.9488	0.02857	121	75	130			
Ethylbenzene	1.1	0.047	0.9488	0.01631	118	79.4	128			
Xylenes, Total	3.5	0.095	2.846	0.04525	120	77.3	131			
Surr: 4-Bromofluorobenzene	0.99		0.9488		105	80	120			

Sample ID 1807E64-013AM	SD SampT	ype: MS	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: S-1 0'	Batch	n ID: 39	506	F	RunNo: 5	3110				
Prep Date: 7/31/2018	Analysis D	ate: 8/	1/2018	8	SeqNo: 1	748310	Units: mg/K	ξg .		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9862	0.01253	106	68.5	133	1.63	20	
Toluene	1.1	0.049	0.9862	0.02857	113	75	130	2.75	20	
Ethylbenzene	1.1	0.049	0.9862	0.01631	111	79.4	128	2.11	20	
Xylenes, Total	3.3	0.099	2.959	0.04525	112	77.3	131	3.23	20	
Surr: 4-Bromofluorobenzene	1.0		0.9862		101	80	120	0	0	

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 Quanitative 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
- Page 14 of 14

- P Sample pH Not In Range
- RL Reporting Detection Limit
- 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

Sample Log-In Check List

Released to Imaging: 6/27/2022 3:57:48 PM

		Websife: wi	rw.hallenvironment	ıLcom				
Client Name: TALON ARTESIA		Work Order Nun	nber: 1807E64	RcptNo: 1				
Received By:	Isalah Ortiz	7/26/2018 11:00:0	O AM	Mirell Green				
Completed By:	Michelle Garcia	7/27/2018 9:14:25	AM	Mirute C	buus >			
Reviewed By:	ENM	7/27/18		, ,	,			
Chain of Cus	tody							
, is Chain of C	ustody complete?		Yes 🔽	No 🗌	Not Present			
2. How was the sample delivered?			Courier					
Log In								
3. Was an attempt made to cool the samples?		ss?	Yes 🗹	No 🗀	NA 🗌			
. Ware all samp	oles received at a temperatu	ure of >0° C to 6.0°C	Yes <table-cell></table-cell>	No 🗆	na 🗆			
5. Sample(s) in proper container(s)?			Yes 🔽	No 🗌				
Sufficient sample volume for indicated test(s)?		it(s)?	Yes 🗹	No 🗌				
Are samples (except VOA and ONG) properly preserved?			Yes 🗹	No 🗌				
. Was preservative added to bottles?			Yes 🗌	No 🗹	NA 🗆	, la		
VOA vials have	e zero headspace?		Yes 🗌	No 🗌	No VOA Vials 🗹	LB.		
). Were eny sample containers received broken?		ken?	Yes 🗆	No 🗹	# of preserved	• //		
. Does paperwork match bottle labels?			Yes 🗹	No 🗆	bottles checked for pH:			
(Note discrepancies on chain of custody)		as Criminal A	C2		(<2 or!	12 unless noted)		
Are matrices correctly identified on Chain of Custody? Is it clear what analyses were requested?		or Custody?	Yes 🗹 Yes 🗹	No 🛄	Adjusted			
. Were all holding times able to be met?			Yes 🗹	No 🗆	Checked by:			
	stomer for authorization.)		169 (£)	140 🗀	Onecked by:			
ecial Handli	ng (If applicable)							
. Was client not	ified of all discrepancies wit	h this order?	Yes 🗌	No 🗀	NA 🗹			
Person N	Notified:	Date:	-	HATCHER BURNEY				
By Whor	n:	Vla;	□ eMail □ P	hone 🔲 Fax	in Person			
Regardin	19:	THE CAME OF THE PARTY OF THE PA	######################################		CONTRACTOR AND			
Client Ins	structions:	ministrative programme in the state of the s	PMANANTA MINICIPA	AND THE PROPERTY OF THE PARTY O	NI MANOREST ESTABLISHED PER			
. Additional rem	ıarks:			***************************************				
. Cooler Inform	nation							
	Temp C. Condition	Seal Intact Seal No	Seal Date	Signed By				
1		es		more than the con-				
						r		

	(N 10 Y) seldduB 1iA	VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
FALL ENVIRONMERENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	(AOV-imes) 0728	eme ved Sample RG-6 3 par Chris Jones. may 31/19 and par Chris Jones. may 31/19 and par Chris Jones. my 31/19) E/C +
Tel.	BTEX + MTBE + TPH (Gas only) (OAM \ OAG \ OAB) A3N9H9T	y. Any sul	
	BTEX + MTBE + TMB's (8021)	Remarks:	
Rush Shey + 17 Triens Fee Line.	1.2 - 1.5(を) 0.7 ative HEAL NO.		
Turn-Around Time: \text{\mathbb{M}} Standard \square: Project Name: Hawk \mathbb{M} \text{\mathbb{H}} \text{\mathbb{M}} \text{\mathbb{H}} \text{\mathbb{M}} \m	Project Manager. Long Messervative Container Preservative Type and # Type	186-1 0.5 10.5	
Record 7	© ra lani pe. Com	Onmental may be subt	
Chain-of-Custody Record Tolon LPE 9 Address: 408 West 25 QVE, Qrts/a, AM 25 CVE, Qrts/a, AM 26 CVE, Qrts/a, AM 27 CVE, Qrts/a, AM 28 CVE, Qrts/a, AM 27 CVE, Qrts/a, AM 28 CVE, AM 2	ig day	126-1 126-2 126-3	
Client: Chaim-of-Cu. Client: Tellon L Mailing Address: 408 Texes Live, Cu. Phone #: \$75.7	☐ Other ☐ Matrix	1 - The second s	
Address & & S.	QA/QC Package: © Standard Accreditation © NELAP © EDD (Type) Date Time	6700 6704 6704 6706 0700 6714 6724 Time: Relin Time: Relin Time: Relin	
Client: Mailing Ad Rekes Phone #	email or Faxe QA/QC Packag Standard Accreditation NELAP EDD (Type	7-25-16 6700 6700 6700 1 672 Date: Time: 7-35-178 1310 If recessary	
		Elle Hill	

るので	- 3	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis	(Vln (O?	O4,5G) H (c	97 + \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(GF (GF)) or des	Original States (1988) September 1998 Septem	+ XE FO8 I EM) I EM) 8 B) e ^I I B A5	BTE TPH TPH TPH ROB BOB BSE BSE BSE BSE BSE BSE BSE BSE BSE BS	7	To transport		7				\ \			\rangle \tag{\tau}		Remarks:	·	٠		if necessary, samples somitted 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.
Turn-Around Time:	Standard 🗆 Rush	Project Name:	Howk 9 47 Trunsfer Ling	: 	701307.112.01	Project Manager:	John Comments		Sampler: C. Lehrall On los: O Yes O No	Sample Temperature: 33-1.06v) 2.2		Container Preservative HEAL No.	; }	Just 1 Mans 1 013	70) () () () () () () () () () (010	020	8.	0.22	(1) (223)	h20	Received Time	XXX 1 7/25/18 1310	Received by: Date Time	1.00 COUNIC 1/20/18 11:00	tracted to other accredited laboratories. This serves as notice of this
Chain-of-Custody Record			Mailing Address: 408 West	Corres 121 . 18 138	Phone #: 575-746-8769	und @ ralonipe, com			☐ Other	□ EDD (Type)		Date Time Matrix Sample Request ID		1251802x Soil S-1	5-1	1.5% 1.5%	10°30 5.3 0°	0732 5.2 1	0734 5.3 O'	0736 5:3 0.5'R	078 54 0	1 5-4 /	54 2'	5.50 0,	646 1 5-5 1'	Refinquished by:	Market Parcole	Time: Kelinquished by:	113/18 190 KM	If necessary, samples sucmitted to Hall Environmental may be subcor

SOFIZ HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hailenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107	(DHM (OMO (OMO) agrico hat (COMM) HT (Method &18.1) BB (Method 504.1) CARA B Metals BATTLE (BATTLE	2 8 8 8 8 8	× × ×		Remarks: Spossibility. Any sub-contracted data will be clearly notated on the analytical report.
Client felon LPE Turn-Around Time: Client felon LPE Affendard DRush Project Name: Walling Address: 4/08 West Howk 9 #7 Transfer Line Texas Ave. Crresia, AM Project #:	Phone #: ≤ 75 - 746 - 846 / 103.0 email or Fax#: [Level 4 (Full Validation)] Froject Manager: QA/QC Package: □ Standard □ Level 4 (Full Validation) C/ 100 /	725180048 20;1 S-5 2 Sert None 025 10750 S-5 3 Sert None 025		0808 S-7 1 1 1 1 1 1 1 1 1	Date: Time: Relinquished by: 136-18 130 1

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

CARDINAL Laboratories

August 30, 2018

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: HAWK 9 #7

Enclosed are the results of analyses for samples received by the laboratory on 08/27/18 11:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

Method EPA 552.2

Total Trihalomethanes (TTHM)

Regulated VOCs (V1, V2, V3)

Celey D. Keens



Analytical Results For:

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

Received:

08/27/2018

Reported:

08/30/2018

Project Name: Project Number: HAWK 9 #7 701307.112.01

Project Location:

LIMEROCK - EDDY CO NM

Sampling Date:

08/23/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: S - 1 1' (H802398-01)

Chlorida SM4500Cl-B

ma/ke

Analyzed By: AC

Chloride, SM4500CI-B	mg,	кg	Anaiyze	a By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11800	16.0	08/29/2018	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	08/28/2018	ND	206	103	200	1.84	
DRO >C10-C28*	<10.0	10.0	08/28/2018	ND	196	98.0	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	08/28/2018	ND					

Surrogate: 1-Chlorooctane

90.3 %

41-142 37.6-147

Surrogate: 1-Chlorooctadecane

87.4 %

Sample ID: S - 1 2' REFUSAL (H802398-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	08/29/2018	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	08/28/2018	ND	206	103	200	1.84	
DRO >C10-C28*	<10.0	10.0	08/28/2018	ND	196	98.0	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	08/28/2018	ND					
Surrogate: 1-Chlorooctane	110	% 41-142	?						
Surrogate: 1-Chlorooctadecane	106	% 37.6-14	7						

Cardinal Laboratories

Received by OCD: 5/15/2020 8:45:38 AM

*=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 valved 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



Analytical Results For:

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

Received: Reported: 08/27/2018

08/30/2018

Project Name: Project Number: HAWK 9 #7

Project Location:

701307.112.01

LIMEROCK - EDDY CO NM

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

Cool & Intact

Soil

08/23/2018

Tamara Oldaker

Sample ID: S - 3 1' (H802398-03)

Chloride, Si	M4500Cl-B
	Analyte
Chloride	

mg/kg

mg/kg

Result

12800

Result

496

Analyzed By: AC

Reporting Limit Analyzed

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Method Blank

ND

ND

BS % Recovery

432

432

108

RPD 0.00 Qualifier

Sample ID: S - 3 2' (H802398-04)

Chloride, SI	M4500Cl-B
	Analyte
Chloride	

08/29/2018

08/29/2018

Analyzed By: AC

Analyzed

Method Blank BS % Recovery 108

True Value QC 400

True Value QC

400

Qualifier RPD

0.00

Sample ID: S - 3 4' (H802398-05)

Chloride,	SM4500Cl-B

mg/kg

	Analyte	Result
Chloride		144

Analyzed By: AC

Analyzed

08/29/2018

Analyzed

Method Blank ND

BS % Recovery 432 108

True Value QC 400

RPD 0.00

Qualifier

Sample ID: S - 3 6' (H802398-06)

Chloride, SM45000	I-B
Analyt	e

mg/kg

Analyzed By: AC

Method Blank

ND

% Recovery

True Value QC

RPD

Chloride

Chloride

Result 464

16.0 08/29/2018

BS 432

BS

432

108 400 0.00

Qualifier

Sample ID: S - 3 8' (H802398-07)

Chloride,	SM4500CI-B

Analyzed By: AC

mg/kg Analyte Result Reporting Limit

272

Analyzed 08/29/2018 Method Blank ND

% Recovery 108

True Value QC 400

RPD

Qualifier 0.00

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liabitary and Damages. Cardinal's liabitary 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 cany 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 limited to the amount paid by client for analyses. All cany 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 limited to the amount paid by client for analyses. 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 to trune

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS QM-07

recovery.

Analyte NOT DETECTED at or above the reporting limit ND

Relative Percent Difference RPD

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

Received by OCD: 5/15/2020 8:45:38 AM

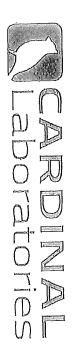
*=Accredited Analyte

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aleg to Keene

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 6



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 86240 (575) 393-2326 FAX (575) 393-2476

(010) 000 Edward (010)	ANALYSIS F	
Company Name: Talon/LPE		
Project Manager: Chr.'s Jones	P.O.费	
N. Texas	company: Talon/LPE	
state: NM	Zip: 88210 Attn: Chris Jones	
Phone #: 575-746-8768 Fax #: 575-746-8905	6-8905 Address:	
Project法: 701307 1/2,01 Project Owner: いっ Pack	The Pock City:	
#	Stafe: Zlp:	
m Eddy	Phone #:	
Coc. 100	Fax#;	
	MATRIX PRESERY, SAMPLING	1
Lab I.D. Sample I.D. (G)RAB OR (C)OME	# CONTAINERS GROUNDWATER WASTEWATER SOIL bil. SLUDGE OTHER: ACID/BASE: ICE/COOL bTHER:	
15-1 1'	. 823/2 /20	
25-1 2' RESEI	30:01	
3 5-3 /	10:15	
4 5.3 2'	(6:28)	
\$-3 Y	10:25	
6 5.3 6	/0'/30	
7 5-3 8	75:30	
8 5-3 10'	(4:0/	
		-
	W 7:	

PLEASE NOTE: Linking and Demograp, Operatives bibling and clearly accordance in the property of the property of the applicable property of the property of the

Delivered By: (Circle One) Sampler-UPS - Bes - Office: 4,4 497	Timer	Relinquished By:	Time: :500	Selinguished By: Relinguished By: Receive in the performance of tendess between the cardinal regard of the performance of the performance of tendess between the performance of the performa
Sample Containous Cincinness Cool Infact After Types No N	1	Received By:	TOMANO VIEW TO THE TOTAL TO THE	loss of whether such claim is based upon only of the scores abuse as early BY:

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

August 30, 2018

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: HAWK 9 #7

Enclosed are the results of analyses for samples received by the laboratory on 08/27/18 11:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

Cardinal Laboratories is 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. Keens

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

Released to Imaging: 6/27/2022 3:57:48 PM



Analytical Results For:

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

Received:

08/27/2018

Reported:

08/30/2018

Project Name:

HAWK 9 #7

Project Number: Project Location: 701307.112.01

LIMEROCK - EDDY CO NM

Sampling Date:

Sampling Type:

Sampling Condition:

Cool & Intact

08/23/2018

Soil

Sample Received By:

Tamara Oldaker

Sample ID: S - 7 1' (H802399-01)

Chloride

Chloride

Chloride

mg/kg

Analyzed By: AC

Analyte

Result

2160

3480

Result

1090

Reporting Limit 16.0

Analyzed 08/29/2018

Analyzed

08/29/2018

08/29/2018

Method Blank ND

BS 432 % Recovery 108

True Value QC 400

400

400

RPD Qualifier

Sample ID: S - 7 2' (H802399-02)

Chloride,	ride, SM4500CI-B Analyte					
	Analyte					

mg/kg Result Reporting Limit

16.0

16.0

16.0

Analyzed By: AC

BS % Recovery

108

RPD True Value QC

Qualifier

0.00

0.00

Sample ID: S - 7 3' (H802399-03)

Chloride,	SM4500CI-B

mg/kg

Analyzed By: AC

Analyte

Reporting Limit Analyzed Method Blank ND

Method Blank

ND

BS 432

432

True Value QC % Recovery 108

RPD 0.00 Qualifier

Sample ID: S - 7 4' (H802399-04)

Chloride,	SM4500CI-B
PHILIPPE	

mg/kg

Analyzed By: AC

	Analyte	Result
Chloride		1040

Reporting Limit Result

Analyzed

08/29/2018

Method Blank

ND

BS 432

% Recovery 108

True Value QC 400

RPD 0.00 Qualifier

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Celeg & Freene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:

08/27/2018

Sampling Date:

08/23/2018

Reported:

08/30/2018

Sampling Type:

Soil

Project Name:

HAWK 9 #7

Sampling Condition:

Cool & Intact

Project Number:

701307.112.01

Sample Received By:

Tamara Oldaker

Project Location:

LIMEROCK - EDDY CO NM

Sample ID: S - 7 5' (H802399-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	08/29/2018	ND	432	108	400	0.00	

Cardinal Laboratories *=Accredited Analyte

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Celleg & Keene

Received by OCD: 5/15/2020 8:45:38 AM





Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

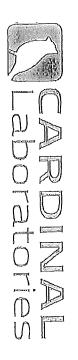
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Page 5 of 5



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Warland, Hobbs, NW 88240 (575) 393-2326 FAX (575) 393-2476

	Mich Killian)	me me miliso
•	REMARKS:	No.
☐ Yes ☐ No Add'! Phone #:	10 11	(K
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officiable .	In captract or tor, shall be limited to use smouth past by one make in one willing and received by Candinal Main and the special state of whiting and received by Candinal Main and the special state of the special state	PLEASE NOTE: Locality and Compages. Candinate licitify and cliently exclusive formedy for any claim exclusi wheater based in contract or not, shall be intricated by Ordinal Ministry to the arrest property of the applicable analysis. All claims for the applicable and the contract of the applicable and the applicable
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)	R (C)OM NERS
	Fas	Sampler Name: (all): Jeramillo
	Phone #:	ואינו
	State: Zip:	Project Name: House 9 #7
	City:	Project # 70/307,1/2.01 Project Owner Cine Kock
	Address:	Phone #: 575-746-8768 Fax #: 575-746-8905
	Attn: Chris Jores	
	company: Talon/LPE	Address: 408 W. Texas Ave.
	P,O. 排	Project Manager: Chris Jones
Algaricio Chagoro		Company Name: Talon/LPE
ANA! くのは のはつ! 古の古		(575) 393-2326 FAX (575) 393-2476

4.40

2分

Sample Condition Cool Infact Larges Tyes Date: Time:

Delivered By: (Circle One)
Sampier - UPS - Bus - Other:

Relinquished By:

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

Received by OCD: 5/15/2020 8:45:38 AM



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

October 15, 2018

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: HAWK 9 #7

Enclosed are the results of analyses for samples received by the laboratory on 10/12/18 15:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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/ga/lab_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.

With South

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager

Released to Imaging: 6/27/2022 3:57:48 PM





Analytical Results For:

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

Received:

10/12/2018

Reported:

10/15/2018

Project Name: Project Number: HAWK 9 #7

Project Location:

701307.112.01 LIMEROCK - EDDY CO NM Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

10/12/2018 Soil

Cool & Intact

Tamara Oldaker

Sample ID: S - 3 BOTTOM COMP (H802944-01)

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	10/15/2018	ND	2.22	111	2.00	2.25	
Toluene*	<0.050	0.050	10/15/2018	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	1.53	
Total Xylenes*	<0.150	0.150	10/15/2018	ND	6.39	107	6.00	2.01	
Total BTEX	<0.300	0.300	10/15/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 5	% 69.8-14	2						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	10/15/2018	ND	416	104	400	3.77	
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	10/13/2018	ND	210	105	200	1.34	
DRO >C10-C28*	<10.0	10.0	10/13/2018	ND	206	103	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	10/13/2018	ND					
Surrogate: 1-Chlorooctane	90.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	87.5	% 37.6-14	17						

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Analytical Results For:

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

Received:

10/12/2018

Reported:

10/15/2018 HAWK 9 #7

Project Name: Project Number:

701307.112.01

Project Location:

LIMEROCK - EDDY CO NM

Sampling Date:

10/12/2018 Sampling Type:

Sampling Condition: Sample Received By: Soil Cool & Intact

Tamara Oldaker

Sample ID: S- 6 N SIDEWALL (H802944-02)

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	10/15/2018	ND	2,22	111	2.00	2.25	
Toluene*	<0.050	0.050	10/15/2018	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	1.53	
Total Xylenes*	<0.150	0.150	10/15/2018	ND	6.39	107	6.00	2.01	
Total BTEX	<0.300	0.300	10/15/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	% 69.8-14	2						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6080	16.0	10/15/2018	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS				- 1.45 vi - 1.45 vi		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2018	ND	210	105	200	1.34	
DRO >C10-C28*	<10.0	10.0	10/13/2018	ND	206	103	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	10/13/2018	ND					
Surrogate: 1-Chlorooctane	86.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	85.7	% 37.6-14	7						

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Mr. Sugh



Analytical Results For:

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

Received:

10/12/2018

Reported:

10/15/2018

Project Name: Project Number: HAWK 9 #7 701307.112.01

Project Location:

LIMEROCK - EDDY CO NM

Sampling Date:

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

10/12/2018

Tamara Oldaker

Sample ID: S- 6 S SIDEWALL (H802944-03)

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	10/15/2018	ND	2.22	111	2.00	2.25	
Toluene*	<0.050	0.050	10/15/2018	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	1.53	
Total Xylenes*	<0.150	0.150	10/15/2018	ND	6.39	107	6.00	2.01	
Total BTEX	<0.300	0.300	10/15/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	% 69.8-14	2						
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	10/15/2018	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2018	ND	210	105	200	1.34	
DRO >C10-C28*	<10.0	10.0	10/13/2018	ND	206	103	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	10/13/2018	ND					
Surrogate: 1-Chlorooctane	90.8	% 41-142	,						
Surrogate: 1-Chlorooctadecane	87.3	% 37.6-14	7						

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Analytical Results For:

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

Received:

10/12/2018

Reported:

10/15/2018 HAWK 9 #7

Project Name:

Project Number: 701307.112.01

Project Location:

LIMEROCK - EDDY CO NM

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: 10/12/2018 Soil

Cool & Intact

Tamara Oldaker

Sample ID: S-7 N SIDEWALL (H802944-04)

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	10/15/2018	ND	2.22	111	2.00	2.25	
Toluene*	<0.050	0.050	10/15/2018	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	1,53	
Total Xylenes*	<0.150	0.150	10/15/2018	ND	6.39	107	6.00	2,01	
Total BTEX	<0.300	0.300	10/15/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 9	% 69.8-14	2						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	10/15/2018	ND	400	100	400	3.92	QM-07
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2018	ND	210	105	200	1.34	
DRO >C10-C28*	<10.0	10.0	10/13/2018	ND	206	103	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	10/13/2018	ND					
Surrogate: 1-Chlorooctane	95.6	% 41-142							
Surrogate: 1-Chlorooctadecane	92.5	% 37.6-14	7						

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Analytical Results For:

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

Received:

10/12/2018

Reported:

10/15/2018

Project Name: Project Number:

ect Number: 70130

Project Location:

HAWK 9 #7 701307.112.01

LIMEROCK - EDDY CO NM

Sampling Date:

Sampling Type:

Sampling Condition:

Sampling Condition: Sample Received By: 10/12/2018 Soil

Cool & Intact

Tamara Oldaker

Sample ID: S-7 W SIDEWALL (H802944-05)

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	10/15/2018	ND	2.22	111	2.00	2,25	
Toluene*	<0.050	0.050	10/15/2018	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	1.53	
Total Xylenes*	<0.150	0.150	10/15/2018	ND	6.39	107	6.00	2.01	
Total BTEX	<0.300	0.300	10/15/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 9	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	10/15/2018	ND	400	100	400	3.92	
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	10/13/2018	ND	210	105	200	1.34	
DRO >C10-C28*	<10.0	10.0	10/13/2018	ND	206	103	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	10/13/2018	ND					
Surrogate: 1-Chlorooctane	89.7	% 41-142							
Surrogate: 1-Chlorooctadecane	86.8	% 37.6-14	7						

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Released to Imaging: 6/27/2022 3:57:48 PM



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

Analytical Results For:

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

Received:

10/12/2018

Reported:

10/15/2018

Project Name: Project Number: HAWK 9 #7

Project Location:

701307.112.01

LIMEROCK - EDDY CO NM

Sampling Date:

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

10/12/2018

Tamara Oldaker

Sample ID: S-7 S SIDEWALL (H802944-06)

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	10/15/2018	ND	2,22	111	2.00	2,25	
Toluene*	<0.050	0.050	10/15/2018	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	2.22	111	2.00	1.53	
Total Xylenes*	<0.150	0.150	10/15/2018	ND	6.39	107	6.00	2.01	
Total BTEX	<0,300	0.300	10/15/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 9	% 69.8-14.	2						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	10/15/2018	ND	400	100	400	3.92	
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	10/13/2018	ND	210	105	200	1.34	
DRO >C10-C28*	<10.0	10.0	10/13/2018	ND	206	103	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	10/13/2018	ND					
Surrogate: 1-Chlorooctane	86.5	% 41-142							
Surrogate: 1-Chlorooctadecane	84.8	% 37.6-14	7						

Cardinal Laboratories

Received by OCD: 5/15/2020 8:45:38 AM

*=Accredited Analyte

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Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

Chloride by SM4500CI-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

*=Accredited Analyte

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whe Sigh

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Page 9 of 9



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Tolon ISF		סדידום	70	7411411	ANALYSIS RE	REQUEST	
Project Manager:	_ \		P.O. #:					
Address: 40	Address: 408 U. Texas		Company: 7	Tolon				
city: Artesia	The state of the s	State: NM Zip: 88010	Attn:					
O	71		Address:	The state of the s	1			
Project#: 7c	701	Project Owner: Live Rock	City:	***************************************			-	
Project Name: けっかと9	Howka		State: Zip:	p:	J			
Project Location:	" Eddy , N		Phone #:				-	
Sampler Name:	Cons		Fax #:					
FOR LAB USE ONLY		MATRIX	PRESERV.	SAMPLING	:5			
Lab I.D. H802944	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME	BTEX			
	5-3 Botton Comp	- 1		01200 7:40	2			
7	5-6 N Side Usil			1 2:45				
ll.				7780				
た	, iv		Market inner	755	TOTAL			
7	۔ (میں)	Add No.	37 November 1	- Ko				
<i>></i>	's s	WORKS ALCO		505.	Service of			
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PLEASE NOTE: Liability and Damages. Cardinats liability and client's excitisive remedy for any claim afcling whether based in contract of fort, shall be limited to the amount paid by the client for the analyses. All claims including those forthes jigenes and any other cause whatspever shall be deemed valved unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be finely for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by effect, its subdistriet,

affiliates of successors around out of of related to the pendimance bissevices harounder by caroning	ance of Services asseunder by	Catalinal, regulates of Miletrie static data is based upoit any of the above states a seasons of other research	Dhone Becuit: ☐ Yes ☐ No Add! Dhone#:
Keilliquistied by	12-12-12	Leccived by.	☐ Yes ☐ No
	Time:	Thinks Illians	REMARKS:
7	15:45	11011110110 Karrett A)
Relinquished By:	Date:	Received By:	
	Time:		 入 ₀ 5k
Delivered By: (Circle One)	. 0	Sample Condition CHECKED BY:	
Sampler - UPS - Bus - Other:	4.10	Har Fres Fres	

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



October 18, 2018

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: HAWK 9 #7

Enclosed are the results of analyses for samples received by the laboratory on 10/17/18 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

Cardinal Laboratories is 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. Keena

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: Reported: 10/17/2018

10/18/2018

HAWK 9 #7

Project Name: Project Number:

701307.112.01

Project Location:

LIMEROCK - EDDY CO NM

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

** (See Notes) Tamara Oldaker

10/17/2018

Soil

Sample ID: S-3 BOTTOM CONFIRMATION (H802980-01)

Chloride, SM4500Cl-B

Chloride

Chloride

Chloride

mg/kg

7200

Result

1230

6080

Result

1260

Analyzed By: AC

Analyte

Analyte

Result Reporting Limit

16.0

Reporting Limit

16.0

Analyzed 10/17/2018 Method Blank ND

BS 432 % Recovery 108

108

108

True Value QC 400

400

400

RPD 0.00 Qualifier

Sample ID: S-3 NORTH SIDEWALL CONF. (H802980-02)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyzed

Method Blank ND

BS 432

BS

432

% Recovery True Value QC RPD

0.00

Qualifier

Sample ID: S-3 SOUTH SIDEWALL CONF. (H802980-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyte Result

Reporting Limit

16.0

Analyzed 10/17/2018

10/17/2018

Method Blank ND

% Recovery

True Value QC

RPD

0.00

Qualifier

Sample ID: S- 3 EAST SIDEWALL CONF. (H802980-04)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte Chloride

Reporting Limit 16.0

Analyzed 10/17/2018 Method Blank ND

BS 432 % Recovery 108

True Value QC 400

RPD 0.00 Qualifier

Cardinal Laboratories

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PLEASE NOTE: Liability and Damages. Cardinal's flability 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

Celeg to treene

Celey D. Keene, Lab Director/Quality Manager





Analytical Results For:

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

Received:

10/17/2018

Reported:

10/18/2018 HAWK 9 #7

Project Name: Project Number:

Project Location:

701307.112.01

LIMEROCK - EDDY CO NM

Sampling Date:

Sampling Type:

BS

Sampling Condition:

Sample Received By:

** (See Notes) Tamara Oldaker

10/17/2018

Soil

True Value QC

400

Sample ID: S-3 WEST SIDEWALL CONF. (H802980-05)

Chloride, SM4500Cl-B

Chloride

Chloride

mg/kg

4400

Analyzed By: AC

Analyte

Reporting Limit Result

16.0

Analyzed 10/17/2018

Method Blank ND

% Recovery 432

108

RPD 0.00 Qualifier

Sample ID: S- 6 BOTTOM CONFIRMATION (H802980-06)

Chloride, SM4500CI-B

Analyte

Analyte

Analyte

Analyte

mg/kg

Analyzed By: AC

Analyzed

Method Blank

BS

% Recovery True Value QC

RPD

Qualifier

4480

Result

Result

1410

Reporting Limit 16.0

Reporting Limit

10/17/2018

ND

432

BS

108

400

0.00

Sample ID: S- 6 NORTH SIDEWALL CONF. (H802980-07)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyzed

Method Blank

ND

Method Blank

% Recovery

True Value QC

RPD

Qualifier

Chloride

16.0 10/17/2018

432

108

400

0.00

Sample ID: S- 6 SOUTH SIDEWALL CONF. (H802980-08)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

% Recovery

True Value QC

RPD

Qualifier

Qualifier

Chloride

Chloride

5120

Result

Reporting Limit 16.0

Reporting Limit

16.0

10/17/2018

Analyzed

Analyzed

10/17/2018

ND

BS 432

108

400

0.00

Sample ID: S- 6 EAST SIDEWALL CONF. (H802980-09)

Chloride, SM4500Cl-B

mg/kg Result

3440

Analyzed By: AC

Method Blank

ND

BS

432

% Recovery

108

True Value QC 400

RPD 0.00

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Celey D. Keene, Lab Director/Quality Manager





Analytical Results For:

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

Received:

10/17/2018

Reported:

10/18/2018 HAWK 9 #7

Project Name: Project Number:

701307.112.01

Project Location:

LIMEROCK - EDDY CO NM

Sampling Date:

BS

432

Sampling Type: Soil

Sampling Condition: Sample Received By:

** (See Notes) Tamara Oldaker

10/17/2018

Sample ID: S- 6 WEST SIDEWALL CONF. (H802980-10)

Chloride, SM4500Cl-B

Chloride

Chloride

Chloride

Chloride

mg/kg

1330

Analyzed By: AC

Analyte

Result Reporting Limit

16.0

Analyzed 10/17/2018 Method Blank ND

% Recovery 108

True Value QC 400

RPD 0.00 Qualifier

Sample ID: S-7 BOTTOM CONFIRMATION (H802980-11)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyte Result Reporting Limit

3120

16.0

Reporting Limit

16.0

Analyzed 10/17/2018

ND

Method Blank

BS 432 % Recovery 108

True Value QC 400

RPD 0.00 Qualifier

Sample ID: S-7 NORTH SIDEWALL CONF. (H802980-12)

Chloride, SM4500CI-B

Analyte

Result

1570

Analyzed By: AC

Analyzed

10/17/2018

Method Blank ND

BS % Recovery True Value QC

RPD 0.00

Qualifier

Sample ID: S-7 SOUTH SIDEWALL CONF. (H802980-13)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyte Result

Reporting Limit

16.0

Analyzed

10/17/2018

Method Blank ND

BS 432

432

% Recovery 108

108

True Value QC 400

400

RPD

0.00

Qualifier

Qualifier

Sample ID: S-7 EAST SIDEWALL CONF. (H802980-14)

Chloride, SM4500CI-B

mg/kg

176

240

Analyzed By: AC

Analyte Chloride

Result Reporting Limit

16.0

Analyzed 10/17/2018

Method Blank BS ND 432 % Recovery 108

True Value QC 400

RPD 0.00

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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. The property and believed to the performance of the services hereunder by Clarina, including under the uniquence of the services hereunder by Clarina, within thirty (30) days after completion of the applicable service. In no event 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 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 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 be deemed within the completion of the service hereunder by Cardinal, regardless of whether the completion of the services hereunder by Cardinal, regardless of whether the completion of the services hereunder by Cardinal, regardless of whether the completion of the services hereunder by Cardinal, regardless of whether the completion of the services hereunder by Cardinal with the completion of the services hereunder by Cardinal with the completion of the services hereunder by Cardinal with the completion of the services hereunder by Cardinal with the completion of the services hereunder by Cardinal with the completion of the services hereunder by Cardinal with the completion of the services hereunder by Cardinal with the completion of the services hereunder by Cardinal with the completion of the services hereunder by Cardinal with the completion of the services hereunder by Cardinal with the completion of the services hereunder by Cardinal with the completion of the services hereunder by Cardinal with the completion of the services hereunder by Cardinal with the completion of the completion of the services hereunder by Cardinal with the completion of the completion of the services hereunder by Cardinal with the completion of the completion of the services hereunder by Cardinal with the completion of the completion of the services hereu In no event shall Cardinal be flable for incidental or consequential damages, 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,

alex treene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received: Reported: 10/17/2018

10/18/2018

Project Name: Project Number:

HAWK 9 #7

Project Location:

701307.112.01

LIMEROCK - EDDY CO NM

Sampling Date:

Sampling Type:

pling Type:

Sampling Condition:

** (See Notes)
Tamara Oldaker

10/17/2018

Sample Received By:

rama

Soil

Sample ID: S-7 WEST SIDEWALL CONF. (H802980-15)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/17/2018	ND	432	108	400	0.00	

Cardinal Laboratories

Received by OCD: 5/15/2020 8:45:38 AM

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Celeg & Keens



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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Celeg to Kreene

Celey D. Keene, Lab Director/Quality Manager

Relinquished By:

Time: Date: //7 //8

Received By:

Phone Result:
Fax Result:
REMARKS:

☐ Yes ☐ No

Time: Date: Relinquished By:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	75/6n LPE			ANALYSIS REQUEST
Project Manager:		A Company of the Comp	P.O. #:	
Address: 4/	408 W. Texas		Company: Take LAE	
city: Artsic	State: ル州	zip: 88210		
Phone #: 631 -697	1-6977 Fax#:		Address:	
Project #: 70	112.01	Project Owner: Line Col	City:	
Project Name: Hawk 9			State: Zip:	
Project Location:	1:		Phone #:	
Sampler Name:	C)Ores		Fax #:	
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	
		ERS ATER		
Lab I.D.	Sample l.D.	G)RAB OR CONTAIN CONTAIN COUNDW VASTEWA COIL DIL CLUDGE	OTHER: CID/BASE CE/COOL OTHER: DATE CA/A	
/	5-3 Botton Confirmation		\	
	5-3 N Sidewall conc		1 1215	
(V)	5-3 5 Side well Cons		1212	
4	5-3 E Sidewall Case		1225	
4	5-3 W Sidewall Conf		וייסו	
•	5-6 Botton Coffrestian		125.21	
7	5-6 N Sidewall CONF		1240	
<i>α</i> 9	-		1245	
a	Sto To Sidewall Cont		1250	
. 10	St w Sidewell Cont.		1255	
PLEASE NOTE: Liability ar analyses. All claims including	PLEASE NOTE: Liability and Damages, Cardyral's fability and client's exclusive remody for any claim arising whother based in contract or tort, shall be limited to the ambunt paid by the client for the analyses. All claims including those storage facility of the client to the analyses. All claims including those storage facility of the client on whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the analyses. All claims including those storage facilities of the client of the contract of t	ny claim arising whather based in contract beened waived unless made in writing and	PLEASE NOTE: Liability and Damages, Cardyrd's flability and client's exclusive remety for any claim arising whether based in contract or tert, shall be limited to the arigumt paid by the client for the analyses. All claims including those droped and only other cause whatsoever shall be deemed waited in whiting and received by Cardinal within 30 days after competion of the applicable of the contract of the contract of the arigument of the applicable of the contract of the arigument of the applicable of the arigument of the applicable of the arigument of the arig	
affiliates or successors arisi	filiates or successor spiriting on or of restrict to the performance of services herounder by Cardinal, regardless of whether such claim is based upon any of the above stated registers or otherwise.	ardinal, regardless of whether such claim	is based upon any of the above stated reasons or otherwise.	

 $08\,fo\, {\tt S9}\, a{\tt SB}{\tt D}{\tt d}$ Cardinal cannot accent verbal channes. Dleace fav written channes to (575) 302-2326

50,00

Sample Condition
Cool Intact
Pyes Pyes
No No

(Initials) CHECKED BY:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Received by OCD: 5/15/2020 8:45:38 AM

Sampler - UPS - Bus - Other:

i

9



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

company manie. 1916 LVE	Transport of the second of the	BILLTO	ANALYSIS REQUEST	
Project Manager: CJOPOS	P.O. #:			
Address: 408 W. Texas	Company:"	ny: Taka LPE		
State: NM	Zip: 88210 Attn:			
Phone #: 631 - 6977 Fax #:		s:		
Project #: 701307, /12.0/ Project Owner: Line Col	Lipse Cook City:			
Project Name: How K G	State:	Zip:		
Project Location:	Phone #:	**		
Sampler Name: Cyores	Fax #:			and the same
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING		
Lab I.D. Sample I.D.	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE:	ICE / COOL OTHER: DATE	Chlorides	
11 5-7 Botton Confirmation		10/17/18 100		
12 5-7 N Sidwell Cont.		501		
135-7 5 Sidewall Conf.		5		
14 5-7 E Sidewell Cont.		135		
. 15 5-7 w Sidewell CoxC.		(2)		
PLEASE NOTE: Liability and Damagoes. Cardinat's liability and client's exclusive remedy for any claim artising whether based in contract or tent, shall be limited to the amount paid by the client for the	claim arising whether based in contract or tort, shall b	e limited to the amount paid by the client for th	ne e	

analyses. All claims including those for ne service. In no event shall Cardinal be just affiliates or successors arising out of ar relativistic or successors arising out of ar relativistic of the control of the contr Relinquished By Delivered By: (Circle One) Zi.Z Time: Date: 0000 Received By: Sample Condition Cool Intact Pres Pres No No CHECKED BY: (Initials) 1 ysu / ☐ Yes ☐ No Add'l Phone; Add'l Fax#:





October 24, 2018

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: HAWK 9 #7

Enclosed are the results of analyses for samples received by the laboratory on 10/23/18 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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.tceg.texas.gov/field/ga/lab 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 & 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

Received by OCD: 5/15/2020 8:45:38 AM

Lab Director/Quality Manager



Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To:

(575) 745-8905

Received:

10/23/2018

Sampling Date:

10/19/2018

Reported:

10/24/2018

Sampling Type:

Soil

Project Name:

HAWK 9 #7

Sampling Condition:

** (See Notes)

Project Number:

701307.012.01

384

16.0

Sample Received By:

Tamara Oldaker

Project Location:

LIMEROCK - EDDY CO NM

Sample ID: S-7 WESTSIDEWALL (H803041-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/24/2018	ND	400	100	400	3.92	
Sample ID: S- 7 N. SIDE	WALL (H8030	41-02)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1640	16.0	10/24/2018	ND	400	100	400	3.92	
Sample ID: S- 6 N. SIDE	WALL (H8030	41-03)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	10/24/2018	ND	400	100	400	3.92	
Sample ID: S- 6 S, SIDE\	WALL (H8030	41-04)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

10/24/2018

Cardinal Laboratories

Chloride

*=Accredited Analyte

3,92

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ND

400

100

400

Celeg Thema

Released to Imaging: 6/27/2022 3:57:48 PM



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

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories

*=Accredited Analyte

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: 75/64 CPE		BILL TO	ANALYSIS F	REQUEST
Project Manager: C Tower	P.O. #:			
Address: 408 W. Taxes	Company:	any: Talon		
City: Atesia State: NA	State: NA Zip: 8210 Attn:			
Phone #: 63/ - 6577 Fax #:	Address:	SS:		
101	Project Owner: Line Rock City:	Angelogian and Association and Association and Principles and Association and		
Project Name: Howk 9	State:	Zip:		
Project Location:	Phone #:	*		
Sampler Name: () Joves	Fax#:			
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	<u> </u>	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP F CONTAINERS GROUNDWATER WASTEWATER SOIL ÖIL SLUDGE OTHER: ACID/BASE;	ICE / COOL OTHER: DATE TIME	Chloride	
15-7 clast side coll		10/10/18/1000		
75-7 N. Silewell		1, 1887		,
3 5-6 N. Sidewall		1010		
5-65		1 1 1 1015		

PLEASE NOTE: Lability and Damagd2 Coardinate lability and client's exclusive remedy for any claim arising whether based in contract or tart, shall be limited to the amount paid by the elect for he analyses. All claims including thosy forfargigance and any other cause wholseever shall be detended whoted unless made in writing and received by Caedinat within 30 days after completion of the applicable service. In no event shall Cardinally liable for incidenal or consequental damages, including without inflication, business interruptions, loss of toe, or loss of profits incurred by Blank its autobalists, inflicitor or successors arising dut of or redaked to the performance of services hereunder by Caedinia, leastardiess of whether such claim is based upon any of the above stated trassors or otherwise.

Relinguished By: / /	Date:	Received By:	Phone Result: ☐ Yes ☐ No Add'! Phone #:
	10-25-18		Fax Result: ☐ Yes ☐ No Add'l Fax #:
	Tippe: , 26	Muara Silastell	REMARKS:
Relinquished By	Date:	Received By:)
	Time:		
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Sampler - UPS - Bus - Other:	10.4	C. T. System Start	

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



November 01, 2018

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: HAWK 9 #7

Enclosed are the results of analyses for samples received by the laboratory on 10/31/18 11:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

Cardinal Laboratories is 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

Received by OCD: 5/15/2020 8:45:38 AM

Lab Director/Quality Manager





Analytical Results For:

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

Received:

10/31/2018

Reported:

11/01/2018

Project Name: Project Number: HAWK 9 #7 701307.112.01

Project Location:

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

Cool & Intact Tamara Oldaker

RPD

3.77

Qualifier

10/30/2018

Soil

LIMEROCK - EDDY CO NM

Sample ID: S- 6 N. SIDEWALL (H803107-01)

Chloride, SM4500CI-B	mg/k

Analyzed By: AC

Analyte Reporting Limit Analyzed Method Blank BS % Recovery True Value QC Chloride 320 16.0 11/01/2018 ND 416 104 400

Sample ID: S-7 N. SIDEWALL (H803107-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/01/2018	ND	416	104	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

Released to Imaging: 6/27/2022 3:57:48 PM

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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

Cardinal Laboratories

Received by OCD: 5/15/2020 8:45:38 AM

*=Accredited Analyte

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Celeg & Keene

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Project Manager: CTS res Address: 408 W. 76xa S City: Arks res State: NM Zip: 889/0 Artm:
ess: 408 W. Texas Atts: State: Mr. Zip: 883/0 Attn:
Artesia state: MM zin: BB2/0 Attn:
Phone #: 67/ -697
307 112 01 Project Owner: Line Kak
Project Name: Howk 9 State: Zip:
n: Eddy NM Phone #:
" Cross
MATRIX PRESERV SAMPLING
ASE: OOL
CON GROU
(5-6 N. Sidewal) 10/30/18 10:30
23-1 N. Sidewe!! 1 10:35
PLEASE NOTE: Cability and Damages, Cardinal's lability and elient's exclusive ramedy for any claim arising whether based in contract or rort, shall be limited to the amount paid by the client for the

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 Sample Condition
Cool Intact
Pres Pres
No No

es es ès

CHECKED BY: (Initials)

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Time:

Relinquished By

tions, loss of use, or loss of profits incurred by ellent, its subsidiaries, claim is based upon any of the above stated reasons or otherwise.

☐ Yes ☐ No

Page 74 of 80





November 06, 2018

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: HAWK 9 #7

Enclosed are the results of analyses for samples received by the laboratory on 11/05/18 15:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

Cardinal Laboratories is 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. Keena

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager





Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received: Reported: 11/05/2018

11/06/2018

Project Name:

HAWK 9 #7

Project Number: Project Location: 701307.112.01

LIMEROCK - EDDY CO NM

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

** (See Notes)

Soil

Jodi Henson

10/31/2018

Sample ID: S-3 BOTTOM (H803168-01)

Chloride, SM4500Cl-B	hloride, 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	11/06/2018	ND	416	104	400	3.77	

Sample ID: S-3 N. SIDEWALL (H803168-02)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/06/2018	ND	416	104	400	3.77	

Sample ID: S-3 S. SIDEWALL (H803168-03)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC				·····		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/06/2018	ND	416	104	400	3.77	

Sample ID: S-3 W, SIDEWALL (H803168-04)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/06/2018	ND	416	104	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

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

Received:

11/05/2018

11/06/2018

Reported: Project Name:

Project Number: Project Location: HAWK 9 #7 701307.112.01

LIMEROCK - EDDY CO NM

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

10/31/2018 Soil ** (See Notes)

Jodi Henson

Sample ID: S-3 E. SIDEWALL (H803168-05)

Chloride, SM4500CI-B

Chloride

Chloride

Chloride

Chloride

mg/kg

Analyzed By: AC

Analyte Result 128

Reporting Limit 16.0

Reporting Limit

16.0

11/06/2018

Analyzed Method Blank ND

BS 416

% Recovery 104

True Value QC 400

RPD 3.77

Qualifier

Sample ID: S-6 BOTTOM (H803168-06)

Chloride, SM4500CI-B Analyte

mg/kg

Result

96.0

Analyzed By: AC

Method Blank

ND

BS % Recovery 416 104

True Value QC

400

RPD

Qualifier 3.77

Sample ID: S-6 E. SIDEWALL (H803168-07)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyte Result Reporting Limit 112 16.0

Analyzed 11/06/2018

Analyzed

11/06/2018

Method Blank ND

BS 416 % Recovery 104

True Value QC

400

RPD 3.77

Qualifier

Sample ID: S-6 W. SIDEWALL (H803168-08)

Chloride, SM4500CI-B

Analyte

mg/kg

Analyzed By: AC

Result 32.0

Reporting Limit 16.0 11/06/2018

Reporting Limit

16.0

Analyzed

Method Blank ND

BS 416

BS

416

% Recovery 104

True Value QC 400

RPD 3.77 Qualifier

Qualifier

Sample ID: S-7 BOTTOM (H803168-09)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte Chloride

Result

16.0

Analyzed

11/06/2018

Method Blank

ND

% Recovery 104

True Value QC 400

RPD 3.77

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories

Received by OCD: 5/15/2020 8:45:38 AM

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

		An and dark white the property of the contract	ANALYSIS DECLIEST
Company Name: Talon LOE	The state of the s	BIFFE	ANALIGIO PEROLO:
Project Manager: (2) Jones	P.;	P.O. #:	
Address: 408 U. Toxas		Company: Tc/on	
City: Artesia State: NM	Zip: 882十	Attn:	
Phone #: 631 - 6977 Fax #:	Ac	Address:	
Project #: 701 S07. 112.01 Project Owner:		City:	
Project Name: Hank 9	St	State: Zip:	
Project Location: としなり ハハ	[d]	Phone #:	
Sampler Name: Coores	71 00	1	
ı	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER: DATE	Chloria
15-3 KHm		10-31-18 1000	
1		7005	
57,		, 1010	
5-3		5101	
		1020	
2-6		1025	
21.		/030	
		1035	
-		1040	

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Sampler - UPS - Bus - Other: 221	To the Pres Pres	

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 399-2326

Page 5 of 5

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

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

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 8306

CONDITIONS

Operator:	OGRID:
LIME ROCK RESOURCES II-A, L.P.	277558
1111 Bagby Street	Action Number:
Houston, TX 77002	8306
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

C	Created By	Condition	Condition Date
	jharimon	Please note that, when the well or facility is plugged or abandoned, the final remediation and reclamation shall take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations.	6/27/2022