

**Raybaw Operating, LLC.
2626 Cole Ave., Suite 300
Dallas, TX 75204
214-800-2301**

July 12, 2023

NMOCD District 1
1625 N French Dr.
Hobbs, NM, 88240

**RE: Site Assessment, Remediation, and Variance Request
Chimayo 16 State #003
API No. 30-015-38105
GPS: Latitude 32.1329002 Longitude -103.9933624
UL "F", Section 16, Township 25S, Range 29E,
Eddy County, NM
NMOCD Reference No. NAB1532742191**

Raybaw Operating, LLC (Raybaw) has contracted Pima Environmental Services, LLC (Pima) to perform a site assessment, remediation, and prepare this variance request for a produced water release that happened at the Chimayo 16 State #003 (Chimayo). An initial C-141 was submitted on November 20, 2015, and can be found in Appendix C. This incident was assigned Incident ID NAB1532742191, by the New Mexico Oil Conservation Division (NMOCD).

Site Information and Site Characterization

The Chimayo is located approximately eight (8) miles southeast of Malaga, NM. This spill site is in Unit F, Section 16, Township 25S, Range 29E, Latitude 32.1329002 Longitude -103.9933624, Eddy County, NM. A Location Map can be found in Figure 1.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology in this area is made up of older alluvial deposits of upland plains, piedmont areas, calcic soils, eolian cover sediments of High Plains region. Includes scattered lacustrine, playa, and alluvial deposits of the Tahoka, Double Tanks, Tule, Blanco, Blackwater Draw, and Gatuna Formations, the latter of which may be Pliocene at base; outcrops, however, are basically of Quaternary deposits. The soil in this area is made up of Pajarito-Dune land complex, 0 to 3 percent slopes according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well drained. There is a medium potential for karst geology to be present around the Chimayo (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 60 feet below grade surface (BGS). According to the United States Geological Survey well water data, depth to the nearest groundwater in this area is 140 feet BGS. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29

Depth to Groundwater (Appendix A)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
<50'	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg
51-100'	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
>100'	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg

Reference Figure 2 for a Topographic Map.

Release Information

NAB1532742191: On November 18, 2015, Sump tank overfilled bad check valve, bad check valve allowed produced water from the charge pump to flow back into the sump tank. Isolated the tank by closing the valves upstream and downstream of sump tank. 7 BBL of produced water released on a 30 x 50 area all on pad, 7 BBL of produced water recovered. A vacuum truck was already on location. An environmental agency will be called out for remediation.

Site Assessment and Liner Inspection

On July 23, 2020, Talon/LPE mobilized personnel to perform a site assessment and collect soil samples. Grab soil samples were collected within and around the impacted area utilizing a hand auger. Further sampling took place in September in conjunction with remediation, utilizing first a backhoe and then an excavator due to the hard rock refusal experienced at approximately 2' BGS. Sampling continued into October both to guide further excavation and to delineate the site. The laboratory results from these sampling events can be found in the data tables on pages 4 - 6 of this report. A Corrected Site Map can be found in Figure 4.

Remediation Activities

On November 17, 2020, Talon/LPE personnel mobilized an air rotary drilling unit to the site to install a borehole to prove the absence of ground water at this location. The hole was drilled at sample point S-2 and advanced to approximately 51' BGS. This was left for over 72 hours. A water level indicator was then utilized to verify the absence of ground water. The Drilling Log for this event can be found in Figure 5.

In November of 2020, Talon/LPE mobilized personnel and equipment to begin remediation activities. The impacted areas in the vicinity of sample locations S-8 and S-11 were excavated to a depth of 4-feet BGS where hard rock refusal was encountered. After the borehole was installed, and the absence of ground water was verified, the remaining impacted areas on the well pad were excavated to a depth of 2-feet BGS. Confirmation samples were obtained from the sidewalls and bottoms of the excavated areas to verify that all contaminants above closure criteria had been removed. All the excavated material was hauled to Lea Land, LLC., an NMOCD-approved solid waste disposal facility. The excavated area was backfilled with new caliche, machine compacted and contoured to match the surrounding location. Photographic Documentation can be found in Appendix D.

Countermeasures due to previously rejected Closure Request

Correct laboratory reports have been collected and included in this report. The site map and data tables were corrected and clarified. The GPS coordinates for the soil boring at the S-2 location has been corrected on the drilling log. To correct the absence of confirmation samples, Raybaw would like to submit the following reclaim proposal and variance request.

Reclaim Proposal and Variance Request

This SWD well has been plugged and the reclamation process has recently begun. Raybaw proposes to address the spill areas by:

1. Begin excavating the top 2' of soil from the previously backfilled spill area.
2. Pima personnel will field screen for contaminants as the soil is excavated. If any contaminated soil is encountered, it will be loaded up and transported to an NMOCD-approved, lined disposal facility.
3. Stockpile clean soil on site for future use.
4. Begin excavating the next 1' of soil from the spill area.
5. Field screen for contaminants as the soil is excavated. If any contaminated soil is encountered, it will be disposed of.
6. Stockpile clean soil on site for future use.
7. Begin field screening other areas on the pad. (i.e. where secondary containment was, where equipment was, etc.) If any contaminated soil is encountered, it will be disposed of.
8. Begin excavating the next 1' of soil from the spill area.
9. Field screen for contaminants as the soil is excavated. If any contaminated soil is encountered, it will be disposed of.
10. Stockpile clean soil on site for future use.
11. Field screen the base and sidewalls of the excavation, which is now at a depth of 4' bgs, for contaminants to verify the soil will meet the reclamation standards in 19.15.29.13 NMAC.
12. Send a 48-hour notification for confirmation sampling via email to OCD Online.
13. Officially collect confirmation samples from the base and sidewalls of the excavation and deliver to an NMOCD-approved laboratory.
14. Upon receipt of official lab results verifying samples have met the reclamation standards, the entire pad reclamation will be completed.
15. The stockpiled, clean material on site will be used to backfill the 1' – 4' bgs area.
16. Fresh, natural, clean topsoil will be brought in from a nearby pit to backfill the top 1' area.

17. The entire pad area will be machine-compacted and contoured to match the surrounding terrain.
18. During the appropriate season, the entire area will be reseeded with an approved seed mixture.

Based on the large area associated with the Chimayo releases, nAB1532742191 & nAB1728637411, Raybaw would like to request a variance regarding the number of 5-point composite confirmation samples required for closure. The current release area is approximately 23,200 feet squared, requiring 116 confirmation base samples and 9 confirmation sidewall samples, following the 200 square foot rule. We believe we can obtain an accurate representation of the remediated area by collecting 5-point composite confirmation samples every 500 square feet. If further contamination is encountered, the number of required samples will be adjusted to maintain representation of every 500 square feet. Maps and data will be adjusted to accurately reflect the field information. A Variance Request Map is included as Figure 6. A Written Demonstration of Equal Protection can be found in Figure 7.

Upon completion of this scope of work and confirmation sampling event, a full revised closure report and closure request will be submitted, documenting remediation/reclamation activities and results of confirmation soil samples.

For questions or additional information, please feel free to contact:

Raybaw Operating – Nancy Winn – 281-793-5452 or nwinn@sbcglobal.net.

Pima Environmental – Tom Bynum – 580-748-1613 or tom@pimaoil.com.

Attachments

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Corrected Site Map
- 5- Drilling Log
- 6- Variance Request Map
- 7- Written Demonstration of Equal Protection

Appendices:

- Appendix A – Referenced Water Surveys
- Appendix B – Soil Survey and Geological Data
- Appendix C – C-141 Form
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Reports

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')								
Raybaw Operating - Chimayo 16 State #3								
Date: 7-23-20		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S-1 0'R	Surface	ND	ND	ND	ND	ND	0	300
S-2 0'R	Surface	ND	ND	ND	61	320	381	22000
S-3 0'R	Surface	ND	ND	ND	10	66	76	24000
S-4 0'R	Surface	ND	ND	ND	30	190	220	9900
S-5 0'R	Surface	ND	ND	ND	84	280	364	25000
S-6 0'R	Surface	ND	ND	ND	17	91	108	510
S-7 0'R	Surface	ND	ND	ND	34	47	81	2700
S-8 0'R	Surface	ND	ND	ND	36	130	166	42000
S-9 0'R	Surface	ND	ND	ND	68	470	538	1300
BG-1 0'	Surface	ND	ND	ND	ND	ND	0	3300
BG-2 0'	Surface	ND	ND	ND	ND	ND	0	390
BG-3 0'	Surface	ND	ND	ND	ND	ND	0	1400
BG-4 0'	Surface	ND	ND	ND	ND	ND	0	29000

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')								
Raybaw Operating - Chimayo 16 State #3								
Date: 9-1-20		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S-8 2'	2'	NT	NT	ND	ND	ND	0	3200
S-8 4'	4'	NT	NT	ND	ND	ND	0	1600
S-8 6'	6'	NT	NT	ND	ND	ND	0	460
S-8 8'	8'	NT	NT	ND	ND	ND	0	320
S-5 2'	2'	NT	NT	ND	49	ND	49	1200
S-5 Trench 2'	2'	NT	NT	ND	49	ND	49	90
BG-3 1'	1'	NT	NT	ND	12	ND	12	980

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')								
Raybaw Operating - Chimayo 16 State #3								
Date: 9-16-20		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg
BG-5 0'	Surface	NT	NT	ND	ND	90	90	7600
BG-6 0'	Surface	NT	NT	ND	ND	ND	0	490
BG-7 0'	Surface	NT	NT	ND	ND	ND	0	ND
S-4A 2'R	2'	NT	NT	ND	ND	ND	0	210
S-6A 1.5'R	1.5'	NT	NT	ND	23	140	163	1500
S-10 1.5-2'R	2'	NT	NT	ND	62	350	412	2400
S-11 4'R	4'	NT	NT	ND	ND	ND	0	5300
S-12 2'R	2'	NT	NT	ND	12	ND	12	910
S-16 1.5-2'R	2'	NT	NT	ND	ND	ND	0	7100
S-17 1.5-2'R	2'	NT	NT	ND	20	140	160	3000
S-18 1.5'R	1.5'	NT	NT	ND	11	69	80	1000

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')								
Raybaw Operating - Chimayo 16 State #3								
Date: 10-7-20		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg
NE SW 2'	2'	ND	ND	ND	ND	ND	0	350
SE SW 2'	2'	ND	ND	ND	ND	ND	0	1500
S-20 N SW 2'	2'	ND	ND	ND	ND	ND	0	960
S-20 2'	2'	ND	ND	ND	ND	ND	0	940
BG-8 0'	2'	ND	ND	ND	ND	ND	0	1400
BG-9 0'	2'	ND	ND	ND	ND	ND	0	1200

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')								
Raybaw Operating - Chimayo 16 State #3								
Date: 10-20-20		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
3 SW	2'	ND	ND	ND	ND	61	61	5400
WSW	2'	ND	ND	ND	ND	ND	0	410
18SW	2'	ND	ND	ND	ND	60	60	8200
S3	2'	ND	ND	ND	ND	ND	0	1200
S2	2'	ND	ND	ND	ND	ND	0	9400
S15	2'	ND	ND	ND	ND	ND	0	710
EBG	Surface	ND	ND	ND	ND	99	99	140
NSW	2'	ND	ND	ND	ND	ND	0	700
S7	2'	ND	ND	ND	ND	ND	0	750
S9	2'	ND	ND	ND	ND	ND	0	1700
S14	2'	ND	ND	ND	ND	ND	0	3900
S19	2'	ND	ND	ND	ND	ND	0	5100
S13	2'	ND	ND	ND	26	110	136	5500
17SW	2'	ND	ND	ND	ND	ND	0	400

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')								
Raybaw Operating - Chimayo 16 State #3								
Date: 11-17-20		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S-2 3'	3'	NT	NT	NT	NT	NT	0	270
S-2 5'	5'	NT	NT	NT	NT	NT	0	130
S-2 10'	10'	NT	NT	NT	NT	NT	0	110
S-2 15'	15'	NT	NT	NT	NT	NT	0	150
S-2 20'	20'	NT	NT	NT	NT	NT	0	180



Pima Environmental Services

Figures:

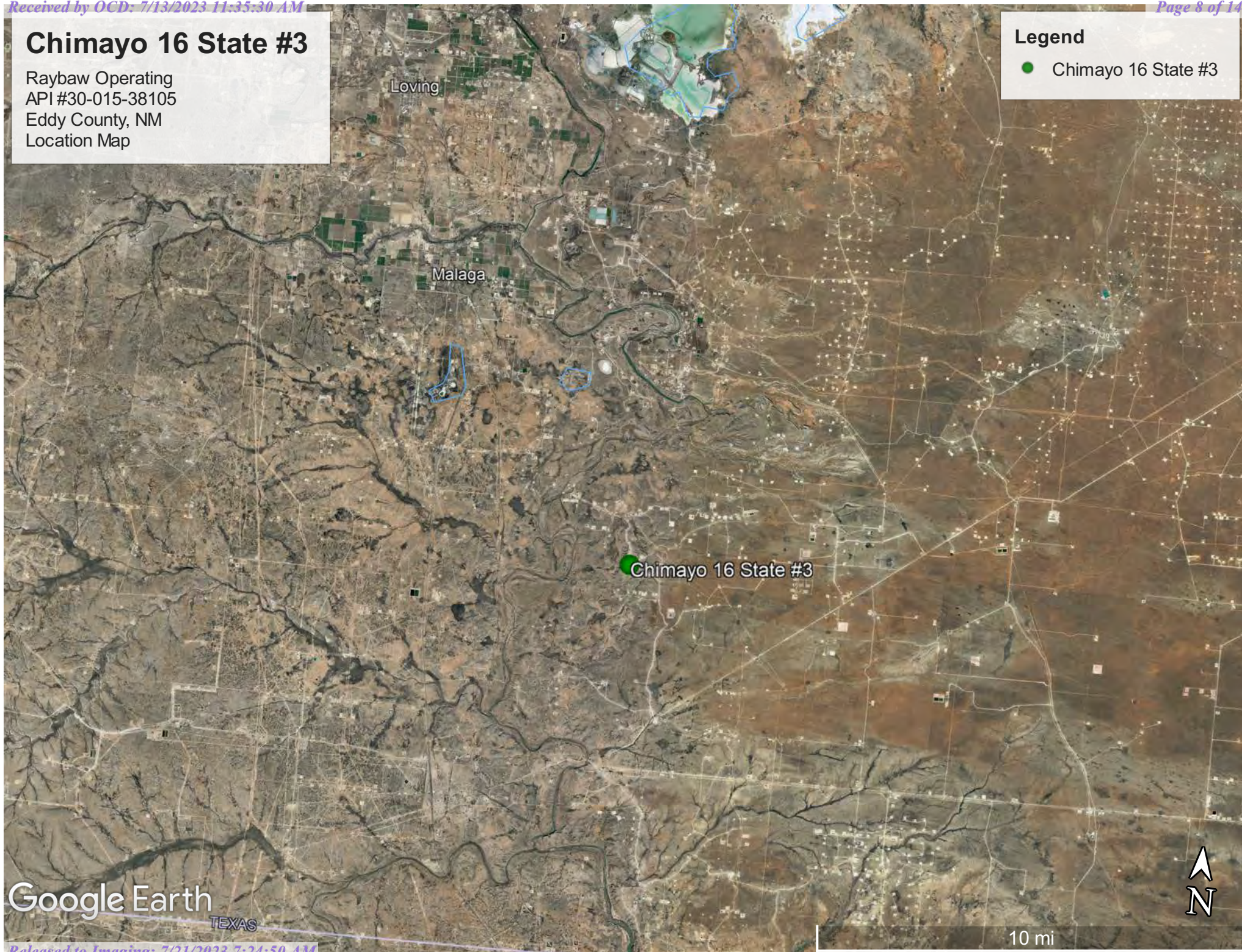
- 1 - Location Map
- 2 - Topographic Map
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Chimayo 16 State #3

Raybaw Operating
API #30-015-38105
Eddy County, NM
Location Map

Legend

● Chimayo 16 State #3



Google Earth

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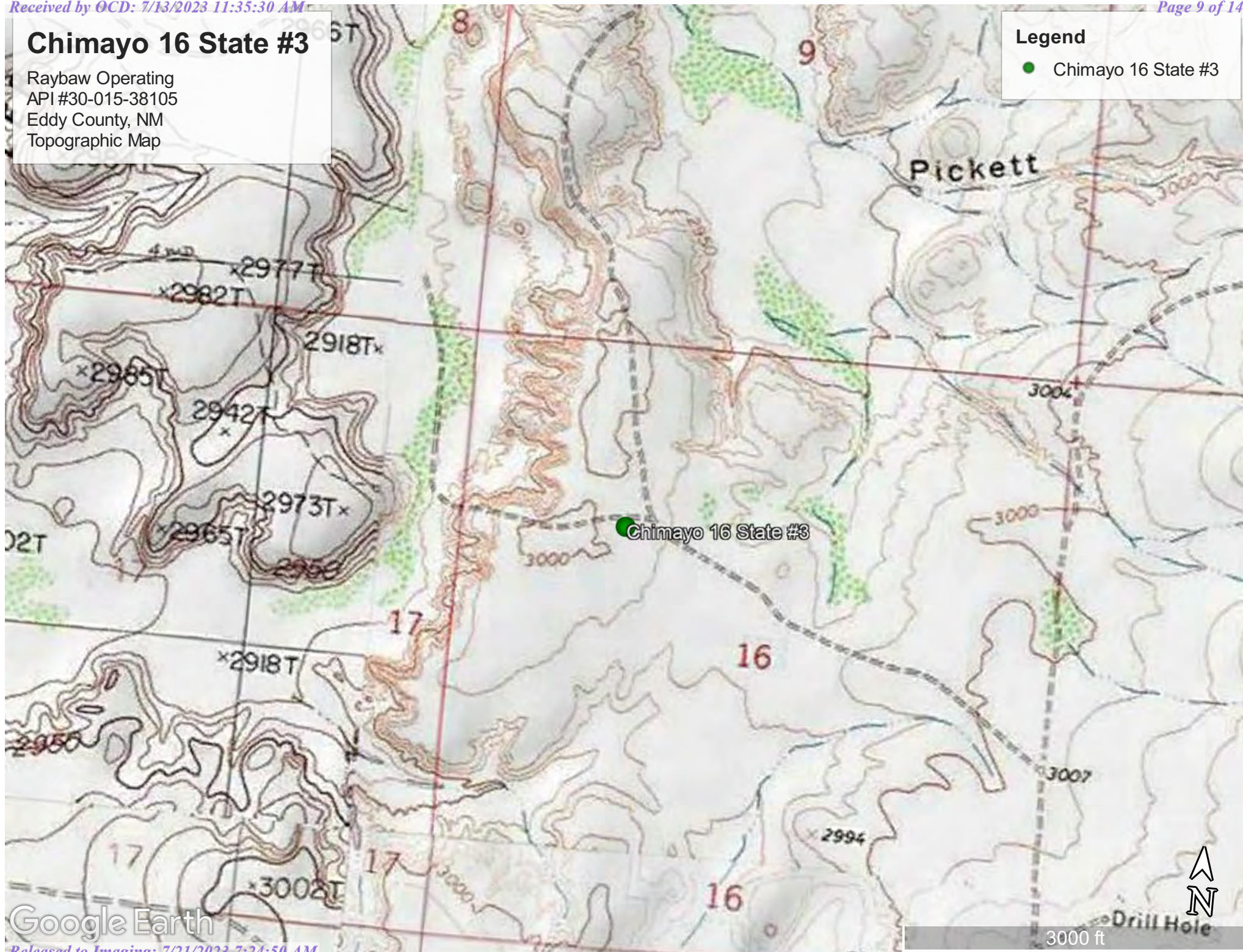
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Chimayo 16 State #3

Raybaw Operating
API #30-015-38105
Eddy County, NM
Topographic Map

Legend

● Chimayo 16 State #3



Google Earth

Chimayo 16 State #3

Raybaw Operating
API #30-015-38105
Eddy County, NM
Karst Map

- Legend**
- High Karst
 - Low Karst
 - Medium Karst

Pecos River

Chimayo 16 State #3

Google Earth



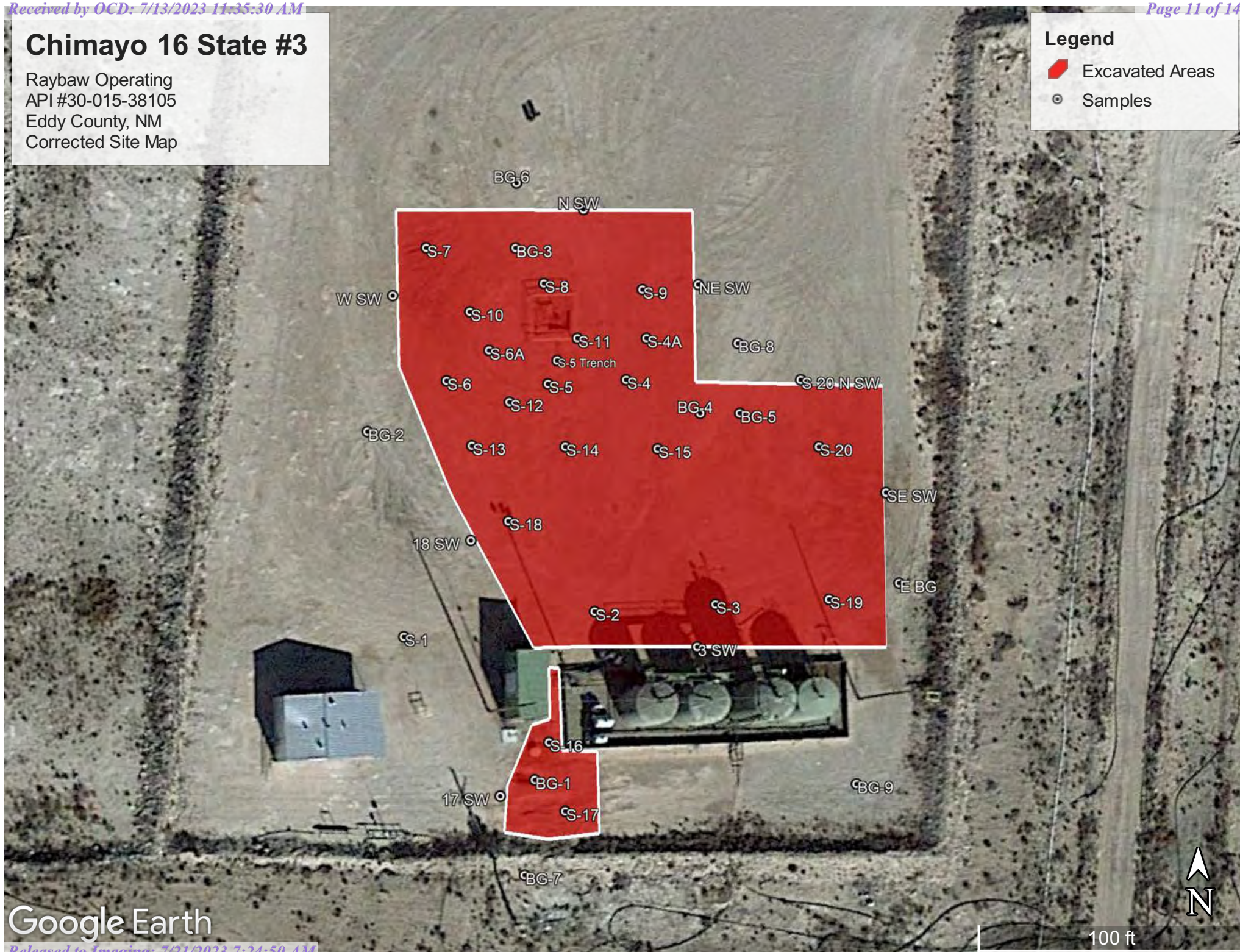
1 mi

Chimayo 16 State #3

Raybaw Operating
API #30-015-38105
Eddy County, NM
Corrected Site Map

Legend

- Excavated Areas
- Samples

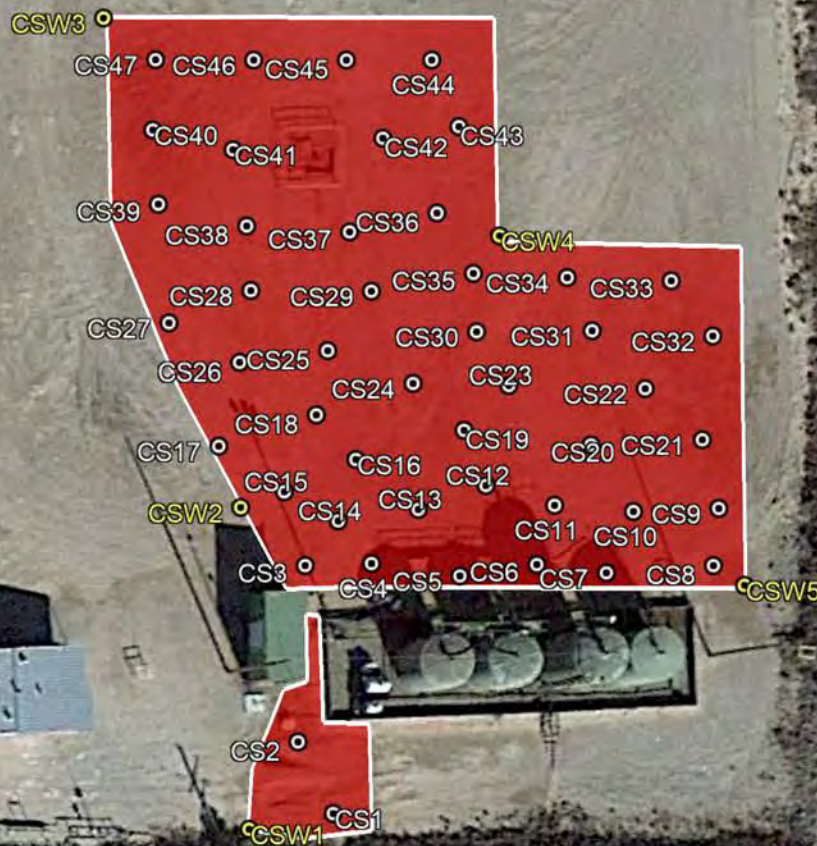


Chimayo 16 State #3

Raybaw Operating
API #30-015-38105
Eddy County, NM
Variance Request Map

Legend

- 5-point Composite base samples
- 5-point Composite sidewall samples
- Excavated Areas - 23,200sqft





BORING LOG

Project No.: 700794.349.01

Weather: Sunny Temp.: 71 °F

Driller: Marcus Doyle

Site Name: Chimayo 16 State #003

Logger: Brandon Sinclair

Rig Type: Geoprobe 7822DT

Location: Eddy County, NM

Field Instrument: CL Titration

Bit Size: 3 1/2"

Date: 11/17/2020

Latitude: 32°, 07', 57.40" N

Drilling Method: Air Rotary

Boring Number: S-2

Corrected <

Longitude: 103°, 59', 35.9" W

Sample Retrieval Method: Split Spoon

Time	Lab Sample Collected	Sample Interval (ft)	Sample Recovery (ft)	USCS	Composition (%)	Sample Material/Comments Include composition, color, grain size, moisture, hardness, plasticity, density	Hydrocarbon Odor	PID (ppm)
		3-5'				Pinkish-white slightly silty fine sand (SP-SM)	None	
		5-10'				White fine sand (SP) with caliche	None	
		10-15'				Pinkish-white calcareous caliche	None	
		15-35'				Light tan-brown to brown fine sands (SP)	None	
		35-51'				Brown fine sands (SP)	None	
							None	
							Slight	
							Mod.	
							Strong	
							None	
							Slight	
							Mod.	
							Strong	
							None	
							Slight	
							Mod.	
							Strong	
							None	
							Slight	
							Mod.	
							Strong	
							None	
							Slight	
							Mod.	
							Strong	

Surface Elevation: _____

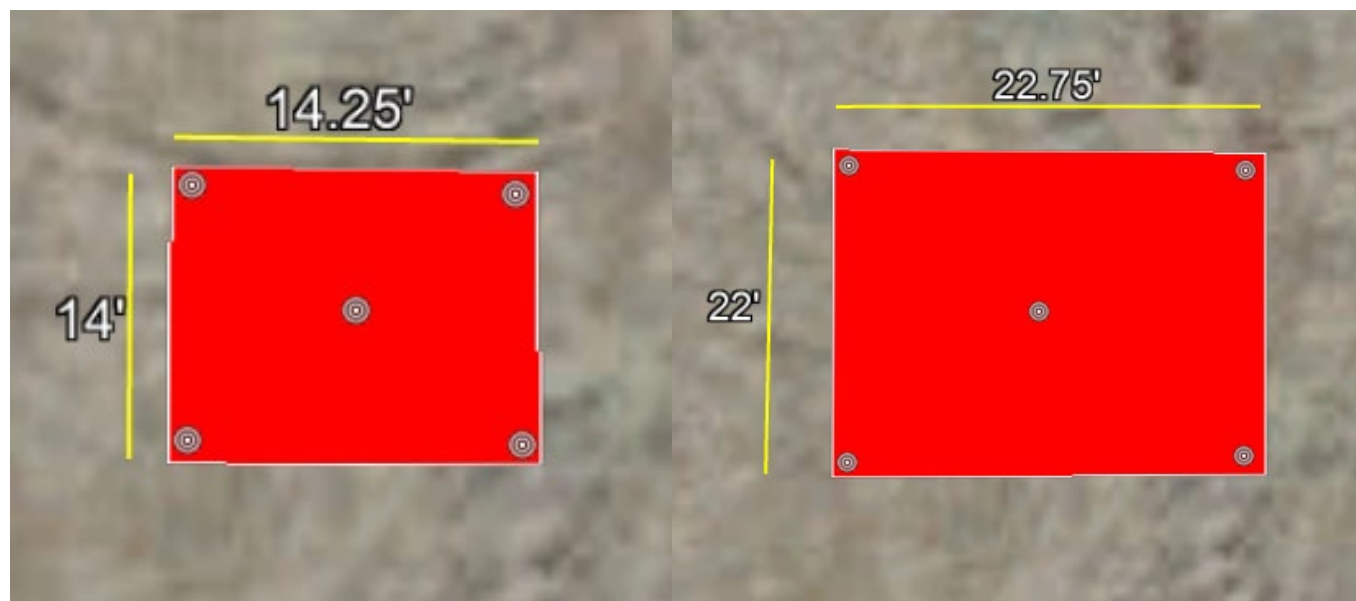
Notes: TD @ 51', Groundwater not encountered

Logger Initials: BS

Written Demonstration of Equal Protection

The purpose of this demonstration is to provide sufficient evidence that samples taken from every 500 square feet versus samples taken from every 200 square feet would provide equal or better protection of fresh water, public health, and the environment.

1. This site lies in a medium karst zone. A low karst zone is approximately 4,100 feet to the east. While a high karst zone is approximately 2.05 miles to the west (Figure 3).
2. The nearest surface water feature to this site is the Pecos River and is approximately 1.33 miles to the west (Appendix A).
3. According to FEMA, this site is in a minimal flood hazard area (Appendix B).
4. According to the U.S. Fish and Wildlife Service - National Wetlands Inventory, this site is approximately 2,062 feet east of a freshwater emergent wetland (Appendix B).
5. A previously mentioned borehole was drilled on site to prove the absence of ground water. It was drilled to 51' bgs and no ground water was encountered (Figure 5).
6. According to the United States Geological Survey, there are 2 other water wells within 1.08 miles from this site. The first one is approximately 4,612 feet from this site, is 192' deep, and has a water level of 141' bgs. The second is approximately 1.08 miles from this site, is 200' deep, and has a water level of 165' bgs (Appendix A)
7. According to the Office of the State Engineer, there are 2 other water wells within 3,938 feet from this site. The first one was drilled to 110' bgs, no ground water was encountered, and it is approximately 1,642 feet from this site. The second is approximately 3,938 feet from this site, was drilled to 460' bgs, and no ground water was encountered (Appendix A).
8. The impacted difference in collecting 5-point composite samples from every 500 square feet versus every 200 square feet can be seen in the following illustrations.



200 Square Foot

500 Square Foot

For Sidewall Samples



Top Line = 200 Square Foot

Bottom Line = 500 Square Foot



Pima Environmental Services

Appendix A

Water Surveys:

OSE

USGS

Surface Water Map



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_04503 POD1		CUB	ED	4	3	3	09	25S	29E	594884	3556142	536			
C_02518		C	ED		3	4	08	25S	29E	593895	3556300*	1261	462		
C_02371		C	ED		2	3	15	25S	29E	596741	3555106*	1859	200	60	140
C_02680		CUB	ED		2	3	15	25S	29E	596741	3555106*	1859	200		
C_04324 POD10		CUB	ED	1	1	1	09	25S	29E	594563	3557603	2030	65	60	5
C_04324 POD11		CUB	ED	1	1	1	09	25S	29E	594576	3557619	2043	61	61	0
C_04324 POD12		CUB	ED	2	2	2	08	25S	29E	594476	3557627	2071	65	60	5
C_04324 POD6		CUB	ED	1	1	1	09	25S	29E	594538	3557657	2088	62	61	1
C_04324 POD9		CUB	ED	1	1	1	09	25S	29E	594590	3557676	2097	72	62	10
C_04324 POD8		CUB	ED	4	4	4	05	25S	29E	594442	3557807	2254	69	65	4
C_04525 POD1		CUB	ED	3	1	2	10	25S	29E	596976	3557505	2773			

Average Depth to Water: **61 feet**

Minimum Depth: **60 feet**

Maximum Depth: **65 feet**

Record Count: 11

UTMNAD83 Radius Search (in meters):

Easting (X): 594950.96

Northing (Y): 3555610.61

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.

2/1/23 10:43 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

site_no list =

- 320739103584201

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 320739103584201 25S.29E.15.31134

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°07'39", Longitude 103°58'42" NAD27

Land-surface elevation 3,017 feet above NAVD88

The depth of the well is 192 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

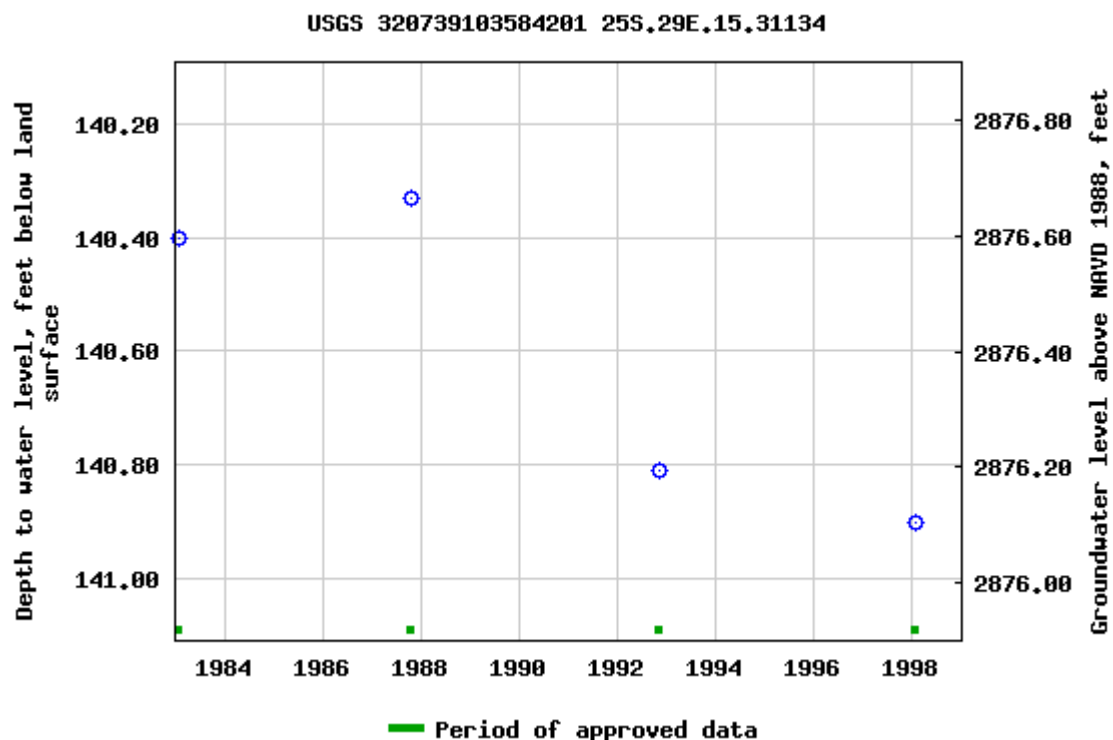
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.
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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2023-02-01 12:46:01 EST

0.58 0.51 nadww01



Chimayo 16 State #3

Raybaw Operating
API #30-015-38105
Eddy County, NM
Surface Water Map

Legend

- 1.33 Miles
- Pecos River



Google Earth



Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

Map Unit Description: Pajarito-Dune land complex, 0 to 3 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

PD—Pajarito-Dune land complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w55

Elevation: 3,000 to 5,000 feet

Mean annual precipitation: 10 to 15 inches

Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 190 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Pajarito and similar soils: 46 percent

Dune land: 45 percent

Minor components: 9 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pajarito

Setting

Landform: Plains, interdunes, dunes

Landform position (three-dimensional): Side slope

Down-slope shape: Convex, linear

Across-slope shape: Linear, convex

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 9 inches: fine sandy loam

H2 - 9 to 36 inches: fine sandy loam

H3 - 36 to 72 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): High
(2.00 to 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 8.4 inches)

Interpretive groups

Land capability classification (irrigated): 2e

Map Unit Description: Pajarito-Dune land complex, 0 to 3 percent slopes---Eddy Area, New Mexico

Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Description of Dune Land

Setting

Landform: Dune fields
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Talf
Down-slope shape: Convex, linear
Across-slope shape: Convex, linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 6 inches: sandy loam
H2 - 6 to 60 inches: sandy loam

Interpretive groups

Land capability classification (irrigated): None specified
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Rock outcrop

Percent of map unit: 5 percent
Hydric soil rating: No

Largo

Percent of map unit: 4 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 18, Sep 8, 2022

National Flood Hazard Layer FIRMette

























103°59'55"W 32°8'14"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000 103°59'17"W 32°7'43"N

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

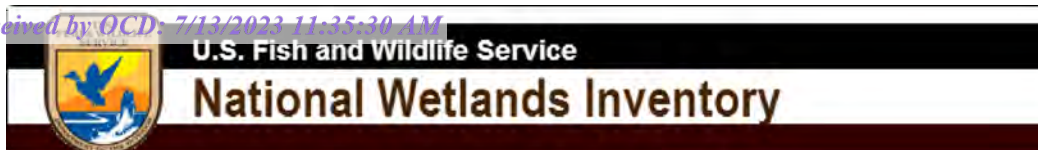


The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

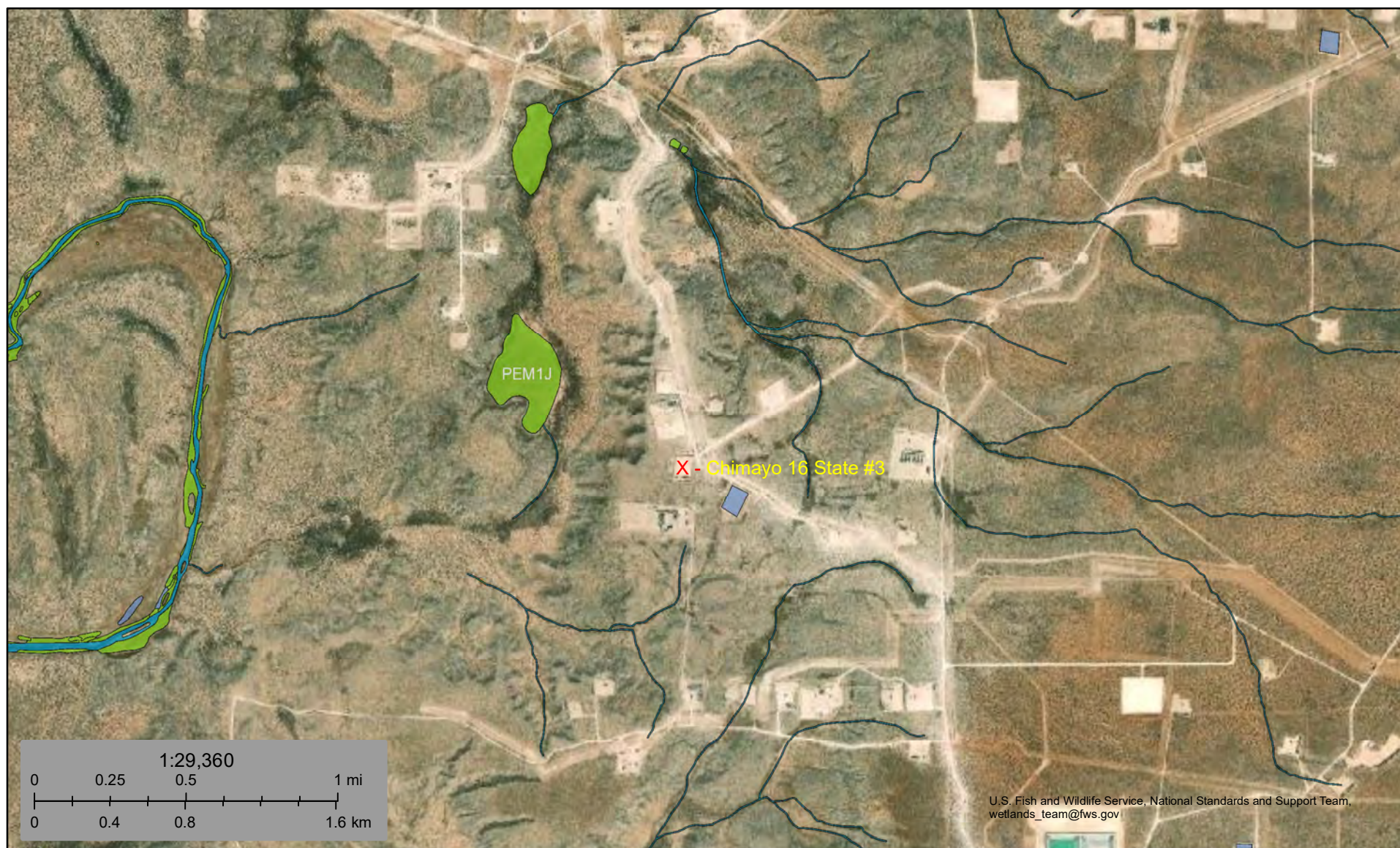
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/1/2023 at 12:51 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



Wetlands Map



February 1, 2023

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



Pima Environmental Services

Appendix C

C-141 Form

NMOCD Correspondence

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 August 8, 2011

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

Release Notification and Corrective Action

OPERATOR ☒ Initial Report ☐ Final Report

Name of Company Devon Energy Production **Contact** Leonard Aguilar Production Assistant Foreman

Address 6488 Seven Rivers Hwy Artesia, NM 88220 **Telephone No.** 575.513.1930

Facility Name Chimayo 16 State 3 **Facility Type** SWD

Surface Owner State **Mineral Owner State** **API No.** 30-015-38105

LOCATION OF RELEASE

Unit Letter F	Section 16	Township 25S	Range 29E	Feet from the 1610	North/South Line FNL	Feet from the 1455	East/West Line FWL	County EDDY
------------------	---------------	-----------------	--------------	-----------------------	-------------------------	-----------------------	-----------------------	----------------

Latitude: Longitude:

NATURE OF RELEASE

Type of Release Spill Produced Water	Volume of Release 7 BBL Produced Water	Volume Recovered 7 BBL Produced Water ?
Source of Release Sump Tank	Date and Hour of Occurrence 11/18/15 at 3:00 PM	Date and Hour of Discovery 11/18/15 at 3:00 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? OCD Jim Amos BLM Mike Bratcher	
By Whom? Leonard Aguilar	Date and Hour OCD 11/19/15 at 11:52 am BLM 11/19/15 at 11:55 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse N/A	

NM OIL CONSERVATION
ARTESIA DISTRICT
NOV 20 2015

RECEIVED

If a Watercourse was Impacted, Describe Fully.* N/A

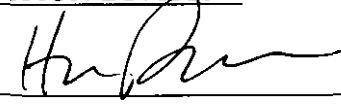
Describe Cause of Problem and Remedial Action Taken.*

Sump tank overfilled bad check valve, bad check valve allowed produced water from the charge pump to flow back into the sump tank. Isolated the tank by closing valves upstream and downstream of sump tank.

Describe Area Affected and Cleanup Action Taken.*

7 BBL of Produced water released on a 30 x 50 area all on pad, 7 BBL of Produced water recovered. Vacuum truck was already on location. An environmental agency will be called out for remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Jeanette Barron	OIL CONSERVATION DIVISION	
Printed Name: Jeanette Barron	Approved by Environmental Specialist: 	
Title: Field Admin Support	Approval Date: 11/23/15	Expiration Date: N/A
E-mail Address: Jeanette.barron@dvn.com	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines Attached <input type="checkbox"/>	
Date: 11/20/15 Phone: 575.748.1813	SUBMIT REMEDIATION PROPOSAL NO	

* Attach Additional Sheets If Necessary

LATER THAN: 12/23/15

2RP-3412

Form C-141

State of New Mexico

Page 3

Oil Conservation Division

Incident ID	nAB1532742191
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	51-100 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	nAB1532742191
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Nancy J. Winn Title: Geoscience Analyst
Signature: Nancy J. Winn Date: 2/1/2023
email: nwinn@sbcglobal.net Telephone: 281-793-5452

OCD Only

Received by: _____ Date: _____

Form C-141

State of New Mexico
Oil Conservation Division

Page 5

Incident ID	NAB1532742191
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Nancy J. WinnTitle: Geoscience AnalystSignature: Date: 07/20/2023email: nwinnsbcglobal.netTelephone: 281-793-5452**OCD Only**

Received by: _____ Date: _____

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral ApprovedSignature: Date: 7/21/2023

From: Harimon, Jocelyn, EMNRD <jocelyn.harimon@emnrd.nm.gov>
To: Nancy Winn <nwinn@sbcglobal.net>
Sent: Tuesday, January 31, 2023 at 03:26:55 PM CST
Subject: RE: [EXTERNAL] C-141

Nancy,

After reviewing all that you sent and the files in our system. I don't see any approved remediation plans for these incident #'s only signed and dated Initial C-141 pages reporting the releases.

It is fine to apply for closure without an approved remediation plan however, the remediation work completed will be "at risk" and the OCD may have requirements in addition to what has been done.

Please make sure that the report is inclusive of all the points I mentioned in the checklists in my previous email.

I do recommend downloading the full set of current C-141 pages from our website and using these pages for your application submissions.

No apologies needed, that is what I am here for.

If you have any further questions please feel free to contact me.

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

1220 South St. Francis Drive | Santa Fe, NM 87505

(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Nancy Winn <nwinn@sbcglobal.net>

Sent: Tuesday, January 31, 2023 1:21 PM

To: Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>
Cc: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: Re: [EXTERNAL] C-141

Jocelyn,

I was going over these documents. May I assume that the Remediation Plan was already approved by the OCD? I found some C-141 files online that were filed by Devon and stamped and signed by the OCD, with handwritten Incident Numbers (attached). Could you please confirm that for me.

I also downloaded a blank C-141 form. It appears to have been updated since these Closure Reports were created. I don't find pages 3-5 in the report. The only signatures are on pages 1 and 6.

Could you please have a quick look again at the Closure Reports and see if what is there is acceptable. I believe all documents are there except the signature pages in question.

The pages that relate to the C-141 signatures are pages 22-30. Other than that, there are no additional signature pages.

My apologies for being a pain in the neck. I want to make sure this is right before submitting.

Thanks again!

Nancy

*Nancy J. Winn
Geoscience Analyst
Raybaw Operating, LLC
281-793-5452 (cell)*

On Tuesday, January 31, 2023 at 10:19:08 AM CST, Harimon, Jocelyn, EMNRD
<jocelyn.harimon@emnrd.nm.gov> wrote:

Nancy,

Thank you for reaching out. I briefly had a look at the files you sent and it does look like most of the bases are covered. Here are two checklists for you to use if you want to go through these reports one more time before submitting to make sure they are complete.

Remediation Plan checklist:

1. Scaled site map diagram with sample points clearly marked
2. Site Photos
3. Site Assessment/Delineation summary (horizontal and vertical)
4. Delineation sample analytical results (lab tested)
5. Table containing analytical data
6. Description of excavation depths corresponding to analytical table
7. Depth to groundwater evaluation, including fluid level data from New Mexico Office of the State Engineer or other documented evidence
8. Karst evaluation, here is the link to the [CFO GIS data](#)
9. FEMA National Flood map review.
10. Signed and dated C-141 (Pages 3-6)

Closure check list

1. All off pad areas to contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg. This may require additional sidewall samples and further delineation
2. Performing a grab sample plan of the remediation area, where each composite sample is not representative of more than 200 ft²
3. Laboratory analyses of final sampling and a description of all remedial activities taken
4. Provide a scaled site and sampling diagram, photographs of the remediation site prior to backfill
5. All other closure reporting need to follow requirements set forth in 19.15.29.12 NMAC
6. Restoration, reclamation, and re-vegetation to 19.15.29.13 NMAC
7. Signed dated C-141 pages 3-5

Once you have your completed submission package you can upload all the documents to the [permitting page](#). To submit an application, you will need an operator OGRID # and you will need the login information. If you have any trouble obtaining the login information, please contact me and I can step you through the process of obtaining login credentials.

Please note that even though both incidents are included in one report, you will need to submit a separate report for each incident #, it is fine to simply use the same report twice. The C-141 pages however will need to be incident specific.

If you have any further questions, please feel free to contact me.

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

1220 South St. Francis Drive | Santa Fe, NM 87505

(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Nancy Winn <nwinn@sbcglobal.net>
Sent: Tuesday, January 31, 2023 8:54 AM
To: Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>
Subject: Fw: [EXTERNAL] C-141

Jocelyn,

I reached out to Robert Hamlet regarding a new C-141 filing for Raybaw Operating (OGRID #330220). These are reports that should have been filed by the previous operator (Devon), but weren't. He asked me to contact you on this.

Could you please read the emails below and let me know if I have everything I need for this?

Thanks,

Nancy

*Nancy J. Winn
Geoscience Analyst
Raybaw Operating, LLC
281-793-5452 (cell)*

----- Forwarded Message -----

From: Hamlet, Robert, EMNRD <robert.hamlet@emnrd.nm.gov>
To: Nancy Winn <nwinn@sbcglobal.net>
Sent: Tuesday, January 31, 2023 at 09:48:00 AM CST
Subject: RE: [EXTERNAL] C-141

Nancy,

I'm going to have you talk to Jocelyn Harimon Jocelyn.Harimon@emnrd.nm.gov about the upload process. She knows infinitely more about the payment portal and uploading reports than I do. If you could, please contact her for any guidance.

Regards,

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau

EMNRD - Oil Conservation Division

506 W. Texas Ave. | Artesia, NM 88210

575.909.0302 | robert.hamlet@state.nm.us

<http://www.emnrd.state.nm.us/OCD/>



From: Nancy Winn <nwinn@sbcglobal.net>
Sent: Tuesday, January 31, 2023 8:41 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: Re: [EXTERNAL] C-141

I haven't uploaded them yet. I wanted to make sure my information was complete before doing that. Are you able to look at what I sent and tell me if I need more information, or is this considered complete? My apologies, but haven't done one of these before.

Thanks,

Nancy

Nancy J. Winn
Geoscience Analyst
Raybaw Operating, LLC

281-793-5452 (cell)

On Tuesday, January 31, 2023 at 09:37:05 AM CST, Hamlet, Robert, EMNRD
<robert.hamlet@emnrd.nm.gov> wrote:

What day were the reports uploaded? Sometimes it takes a day or two to clear the payment portal before it's put in our queue.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau

EMNRD - Oil Conservation Division

506 W. Texas Ave. | Artesia, NM 88210

575.909.0302 | robert.hamlet@state.nm.us

<http://www.emnrd.state.nm.us/OCD/>



From: Nancy Winn <nwinn@sbcglobal.net>
Sent: Tuesday, January 31, 2023 8:28 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: [EXTERNAL] C-141

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Robert,

I work for Raybaw Operating, LLC (OGRID #330220). We recently discovered several spill Incidents from previous operators that had not been closed. We contacted Pima Oil that was assisting us on something else. They looked into it for us and found 2 open incidents on the Chimayo 16 State 3 SWD (API 30-015-38105) in Eddy County.

The previous operator (Devon) had all of the Remediation work done, and reports were created by Talon for them to file. I am unsure why, but the reports were not filed.

Attached is a copy of the 2 incident reports, along with a report for a 3rd that was closed (all in one file).

I was told by Pima that we needed to file these with the OCD, but I am unsure of the process to get them filed. I did try and find out by researching online (unsuccessfully). This is something new for me. I know there is a fee attached to each filing, so I didn't want to make mistakes.

Can you have a look at the attached reports and let me know if I just upload it to the OCD website, like I do the C-103s? I wanted to make sure there were no additional documents I would need to upload.

I appreciate any help you can give me on this.

Thanks,

Nancy

Nancy J. Winn

Geoscience Analyst

Raybaw Operating, LLC

281-793-5452 (cell)

From: [Nancy Winn](#)
To: [Tom Campbell](#); [Jeff Stevenson](#); [Tom Pima Oil](#)
Subject: Fw: The Oil Conservation Division (OCD) has rejected the application, Application ID: 182878
Date: Wednesday, May 24, 2023 12:38:53 PM

Thanks,

Nancy

*Nancy J. Winn
Geoscience Analyst
1601 Belmont Blvd.
Abilene, Texas 79602
281-793-5452 (cell)*

----- Forwarded Message -----

From: OCDOnline@state.nm.us <ocdonline@state.nm.us>
To: "nwinn@sbcglobal.net" <nwinn@sbcglobal.net>
Sent: Wednesday, May 24, 2023 at 01:03:57 PM CDT
Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 182878

To whom it may concern (c/o Nancy Winn for RAYBAW Operating, LLC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAB1532742191, for the following reasons:

- Numerous samples are on the map and or table but there are no laboratory analytical reports for the samples.
- There are samples on the table that are not on the map.
- The report states that remediation activities were started in November of 2022. There are no laboratory samples collected in 2022. Confirmation samples will need to be collected, analyzed for the constituents of Table 1, clearly demarcated on a scaled site and sampling diagram, and submitted with the closure report.
- Sample names and locations on the map are hard to read due to the placement of the labels over equipment/other surface features.
- The boring log for "S-2" has GPS coordinates for the wellhead. Update the location of the boring to the actual location of the boring.
- Submit a complete report through the OCD Permitting website by 8/24/2023.
- 2RP-3412 closed. Refer to incident #nAB1532742191 in all future communication.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 182878.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Brittany Hall
Projects Environmental Specialist - A
505-517-5333
Brittany.Hall@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505



Pima Environmental Services

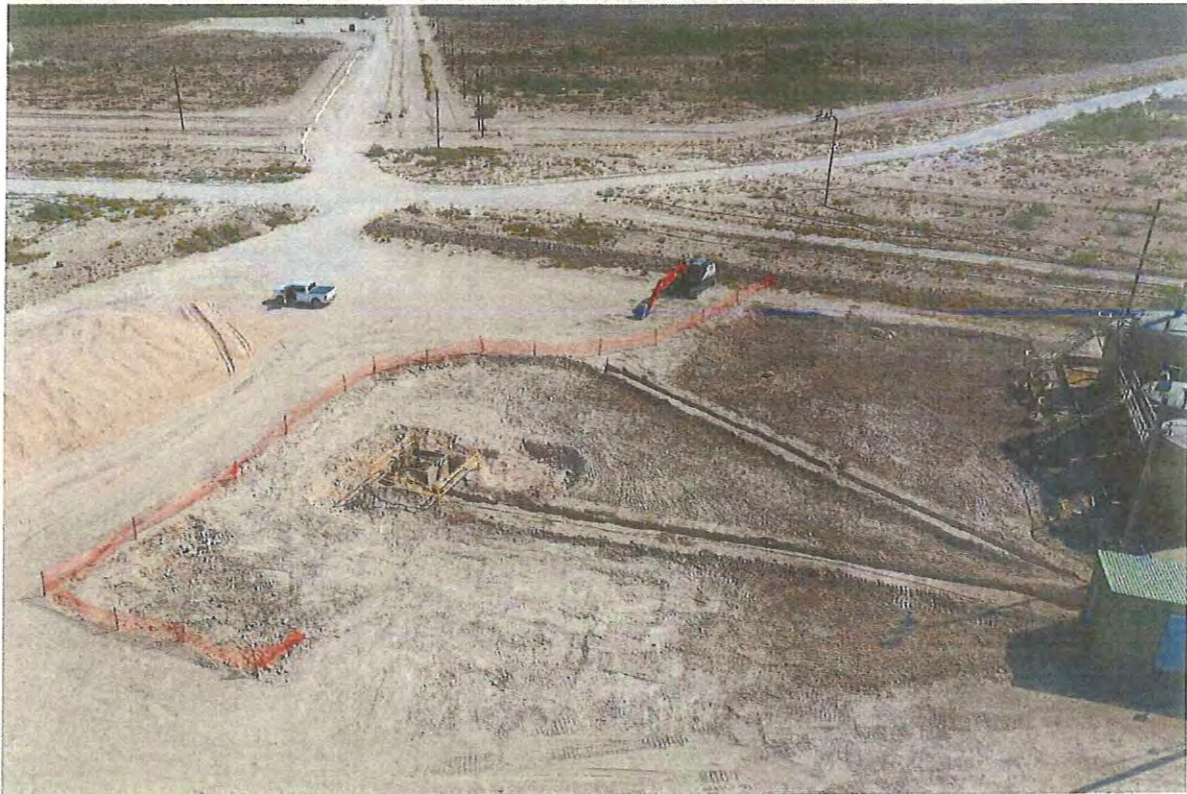
Appendix D

Photographic Documentation

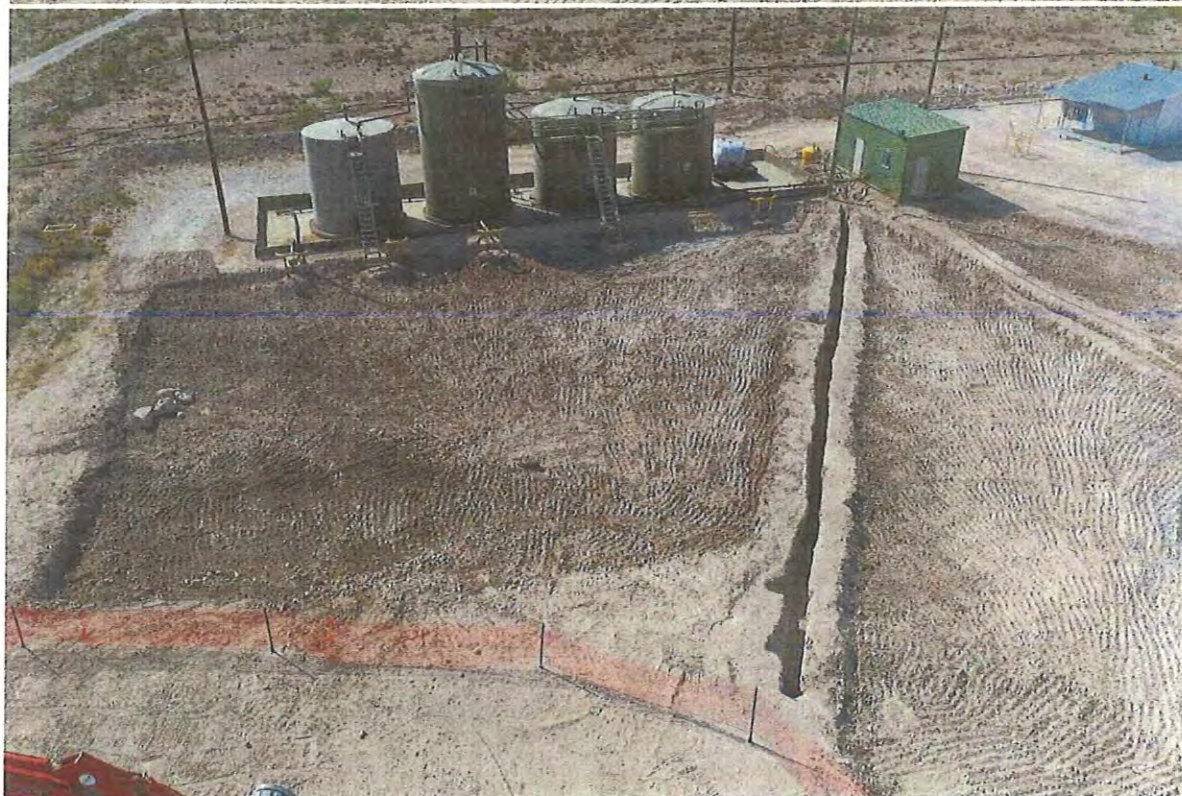
Chimayo 16 State #003 Excavation



Chimayo 16 State #003 Excavation



Chimayo 16 State #003 Excavation



Chimayo 16 State #003 Closure



Chimayo 16 State #003 Closure

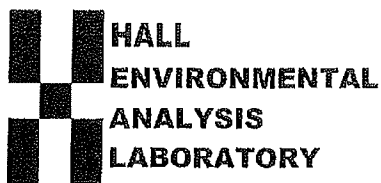




Pima Environmental Services

Appendix E

Laboratory Reports



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

August 06, 2020

Rebecca Pons
Talon Artesia
408 West Texas Ave
Artesia, NM 88210
TEL:
FAX:

RE: Chimayo 16 St. 3

OrderNo.: 2007D09

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 13 sample(s) on 7/25/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2007D09

Date Reported: 8/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-1 0'R

Project: Chimayo 16 St. 3

Collection Date: 7/23/2020 11:50:00 AM

Lab ID: 2007D09-001

Matrix: SOIL

Received Date: 7/25/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	300	60		mg/Kg	20	7/30/2020 8:26:09 PM	54063
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/29/2020 8:03:37 PM	53998
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/29/2020 8:03:37 PM	53998
Surr: DNOP	85.5	30.4-154		%Rec	1	7/29/2020 8:03:37 PM	53998
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/28/2020 11:29:48 AM	53975
Surr: BFB	86.8	66.6-105		%Rec	1	7/28/2020 11:29:48 AM	53975
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/28/2020 11:29:48 AM	53975
Toluene	ND	0.048		mg/Kg	1	7/28/2020 11:29:48 AM	53975
Ethylbenzene	ND	0.048		mg/Kg	1	7/28/2020 11:29:48 AM	53975
Xylenes, Total	ND	0.096		mg/Kg	1	7/28/2020 11:29:48 AM	53975
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/28/2020 11:29:48 AM	53975

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

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

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Analytical Report

Lab Order 2007D09

Date Reported: 8/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-2 0'R

Project: Chimayo 16 St. 3

Collection Date: 7/23/2020 12:15:00 PM

Lab ID: 2007D09-002

Matrix: SOIL

Received Date: 7/25/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	22000	1500		mg/Kg	500	7/31/2020 12:34:34 PM	54063
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	61	47		mg/Kg	5	7/30/2020 3:03:20 PM	53998
Motor Oil Range Organics (MRO)	320	230		mg/Kg	5	7/30/2020 3:03:20 PM	53998
Surr: DNOP	97.0	30.4-154		%Rec	5	7/30/2020 3:03:20 PM	53998
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/28/2020 12:40:23 PM	53975
Surr: BFB	87.7	66.6-105		%Rec	1	7/28/2020 12:40:23 PM	53975
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/28/2020 12:40:23 PM	53975
Toluene	ND	0.049		mg/Kg	1	7/28/2020 12:40:23 PM	53975
Ethylbenzene	ND	0.049		mg/Kg	1	7/28/2020 12:40:23 PM	53975
Xylenes, Total	ND	0.099		mg/Kg	1	7/28/2020 12:40:23 PM	53975
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/28/2020 12:40:23 PM	53975

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

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

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Analytical Report

Lab Order 2007D09

Date Reported: 8/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-3 0'R

Project: Chimayo 16 St. 3

Collection Date: 7/23/2020 12:35:00 PM

Lab ID: 2007D09-003

Matrix: SOIL

Received Date: 7/25/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	24000	1500		mg/Kg	500	7/31/2020 12:46:58 PM	54068
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	10	9.9	10	mg/Kg	1	7/29/2020 8:52:33 PM	53998
Motor Oil Range Organics (MRO)	66	49	10	mg/Kg	1	7/29/2020 8:52:33 PM	53998
Surr: DNOP	0	30.4-154	S10	%Rec	1	7/29/2020 8:52:33 PM	53998
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/28/2020 1:51:05 PM	53975
Surr: BFB	87.9	66.6-105		%Rec	1	7/28/2020 1:51:05 PM	53975
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/28/2020 1:51:05 PM	53975
Toluene	ND	0.048		mg/Kg	1	7/28/2020 1:51:05 PM	53975
Ethylbenzene	ND	0.048		mg/Kg	1	7/28/2020 1:51:05 PM	53975
Xylenes, Total	ND	0.096		mg/Kg	1	7/28/2020 1:51:05 PM	53975
Surr: 4-Bromofluorobenzene	99.2	80-120		%Rec	1	7/28/2020 1:51:05 PM	53975

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

Qualifiers:

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

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

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Analytical Report

Lab Order 2007D09

Date Reported: 8/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-4 0'R

Project: Chimayo 16 St. 3

Collection Date: 7/23/2020 12:55:00 PM

Lab ID: 2007D09-004

Matrix: SOIL

Received Date: 7/25/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	9900	300		mg/Kg	100	7/31/2020 12:59:22 PM	54068
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	30	9.8		mg/Kg	1	7/29/2020 9:16:58 PM	53998
Motor Oil Range Organics (MRO)	190	49		mg/Kg	1	7/29/2020 9:16:58 PM	53998
Surr: DNOP	75.0	30.4-154		%Rec	1	7/29/2020 9:16:58 PM	53998
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/28/2020 2:14:41 PM	53975
Surr: BFB	85.8	66.6-105		%Rec	1	7/28/2020 2:14:41 PM	53975
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/28/2020 2:14:41 PM	53975
Toluene	ND	0.047		mg/Kg	1	7/28/2020 2:14:41 PM	53975
Ethylbenzene	ND	0.047		mg/Kg	1	7/28/2020 2:14:41 PM	53975
Xylenes, Total	ND	0.093		mg/Kg	1	7/28/2020 2:14:41 PM	53975
Surr: 4-Bromofluorobenzene	99.4	80-120		%Rec	1	7/28/2020 2:14:41 PM	53975

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

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

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Analytical Report

Lab Order 2007D09

Date Reported: 8/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-5 0'R

Project: Chimayo 16 St. 3

Collection Date: 7/23/2020 1:20:00 PM

Lab ID: 2007D09-005

Matrix: SOIL

Received Date: 7/25/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	25000	1500		mg/Kg	500	7/31/2020 1:11:46 PM	54068
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	84	9.8		mg/Kg	1	7/29/2020 9:41:27 PM	53998
Motor Oil Range Organics (MRO)	280	49		mg/Kg	1	7/29/2020 9:41:27 PM	53998
Surr: DNOP	78.0	30.4-154		%Rec	1	7/29/2020 9:41:27 PM	53998
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/28/2020 3:25:40 PM	53975
Surr: BFB	86.6	66.6-105		%Rec	1	7/28/2020 3:25:40 PM	53975
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/28/2020 3:25:40 PM	53975
Toluene	ND	0.047		mg/Kg	1	7/28/2020 3:25:40 PM	53975
Ethylbenzene	ND	0.047		mg/Kg	1	7/28/2020 3:25:40 PM	53975
Xylenes, Total	ND	0.095		mg/Kg	1	7/28/2020 3:25:40 PM	53975
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	7/28/2020 3:25:40 PM	53975

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

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

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Analytical Report

Lab Order 2007D09

Date Reported: 8/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-6 0'R

Project: Chimayo 16 St. 3

Collection Date: 7/23/2020 1:40:00 PM

Lab ID: 2007D09-006

Matrix: SOIL

Received Date: 7/25/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	510	60		mg/Kg	20	7/30/2020 2:59:49 PM	54068
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	17	9.7		mg/Kg	1	7/29/2020 10:05:53 PM	53998
Motor Oil Range Organics (MRO)	91	48		mg/Kg	1	7/29/2020 10:05:53 PM	53998
Surr: DNOP	67.2	30.4-154		%Rec	1	7/29/2020 10:05:53 PM	53998
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/28/2020 3:49:18 PM	53975
Surr: BFB	89.6	66.6-105		%Rec	1	7/28/2020 3:49:18 PM	53975
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/28/2020 3:49:18 PM	53975
Toluene	ND	0.048		mg/Kg	1	7/28/2020 3:49:18 PM	53975
Ethylbenzene	ND	0.048		mg/Kg	1	7/28/2020 3:49:18 PM	53975
Xylenes, Total	ND	0.097		mg/Kg	1	7/28/2020 3:49:18 PM	53975
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	7/28/2020 3:49:18 PM	53975

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

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

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Analytical Report

Lab Order 2007D09

Date Reported: 8/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-7 0'R

Project: Chimayo 16 St. 3

Collection Date: 7/23/2020 2:00:00 PM

Lab ID: 2007D09-007

Matrix: SOIL

Received Date: 7/25/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	2700	150		mg/Kg	50	7/31/2020 1:24:11 PM	54068
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	34	8.8		mg/Kg	1	7/29/2020 10:30:28 PM	53998
Motor Oil Range Organics (MRO)	47	44		mg/Kg	1	7/29/2020 10:30:28 PM	53998
Surr: DNOP	69.5	30.4-154		%Rec	1	7/29/2020 10:30:28 PM	53998
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/28/2020 4:12:57 PM	53975
Surr: BFB	88.8	66.6-105		%Rec	1	7/28/2020 4:12:57 PM	53975
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/28/2020 4:12:57 PM	53975
Toluene	ND	0.047		mg/Kg	1	7/28/2020 4:12:57 PM	53975
Ethylbenzene	ND	0.047		mg/Kg	1	7/28/2020 4:12:57 PM	53975
Xylenes, Total	ND	0.094		mg/Kg	1	7/28/2020 4:12:57 PM	53975
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/28/2020 4:12:57 PM	53975

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

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

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Analytical Report

Lab Order 2007D09

Date Reported: 8/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-8 0'R

Project: Chimayo 16 St. 3

Collection Date: 7/23/2020 2:10:00 PM

Lab ID: 2007D09-008

Matrix: SOIL

Received Date: 7/25/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	42000	1500		mg/Kg	500	7/31/2020 1:36:36 PM	54068
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	36	9.7		mg/Kg	1	7/29/2020 10:54:55 PM	53998
Motor Oil Range Organics (MRO)	130	49		mg/Kg	1	7/29/2020 10:54:55 PM	53998
Surr: DNOP	69.1	30.4-154		%Rec	1	7/29/2020 10:54:55 PM	53998
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/28/2020 4:36:37 PM	53975
Surr: BFB	86.4	66.6-105		%Rec	1	7/28/2020 4:36:37 PM	53975
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/28/2020 4:36:37 PM	53975
Toluene	ND	0.049		mg/Kg	1	7/28/2020 4:36:37 PM	53975
Ethylbenzene	ND	0.049		mg/Kg	1	7/28/2020 4:36:37 PM	53975
Xylenes, Total	ND	0.098		mg/Kg	1	7/28/2020 4:36:37 PM	53975
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/28/2020 4:36:37 PM	53975

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

Qualifiers:	•	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2007D09

Date Reported: 8/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-9 0'R

Project: Chimayo 16 St. 3

Collection Date: 7/23/2020 2:30:00 PM

Lab ID: 2007D09-009

Matrix: SOIL

Received Date: 7/25/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	1300	60		mg/Kg	20	7/30/2020 3:37:01 PM	54068
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	68	9.7		mg/Kg	1	7/29/2020 11:19:27 PM	53998
Motor Oil Range Organics (MRO)	470	48		mg/Kg	1	7/29/2020 11:19:27 PM	53998
Surr: DNOP	96.1	30.4-154		%Rec	1	7/29/2020 11:19:27 PM	53998
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/28/2020 5:00:12 PM	53975
Surr: BFB	85.2	66.6-105		%Rec	1	7/28/2020 5:00:12 PM	53975
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/28/2020 5:00:12 PM	53975
Toluene	ND	0.046		mg/Kg	1	7/28/2020 5:00:12 PM	53975
Ethylbenzene	ND	0.046		mg/Kg	1	7/28/2020 5:00:12 PM	53975
Xylenes, Total	ND	0.093		mg/Kg	1	7/28/2020 5:00:12 PM	53975
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	7/28/2020 5:00:12 PM	53975

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

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

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Analytical Report

Lab Order 2007D09

Date Reported: 8/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BG-I 0'

Project: Chimayo 16 St. 3

Collection Date: 7/23/2020 2:40:00 PM

Lab ID: 2007D09-010

Matrix: SOIL

Received Date: 7/25/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	3300	150		mg/Kg	50	7/31/2020 1:49:01 PM	54068
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	7/29/2020 11:43:50 PM	53998
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/29/2020 11:43:50 PM	53998
Surr: DNOP	64.5	30.4-154		%Rec	1	7/29/2020 11:43:50 PM	53998
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/28/2020 5:23:44 PM	53975
Surr: BFB	90.0	66.6-105		%Rec	1	7/28/2020 5:23:44 PM	53975
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/28/2020 5:23:44 PM	53975
Toluene	ND	0.048		mg/Kg	1	7/28/2020 5:23:44 PM	53975
Ethylbenzene	ND	0.048		mg/Kg	1	7/28/2020 5:23:44 PM	53975
Xylenes, Total	ND	0.097		mg/Kg	1	7/28/2020 5:23:44 PM	53975
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	7/28/2020 5:23:44 PM	53975

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

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

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Analytical Report

Lab Order 2007D09

Date Reported: 8/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BG-2 0'

Project: Chimayo 16 St. 3

Collection Date: 7/23/2020 2:45:00 PM

Lab ID: 2007D09-011

Matrix: SOIL

Received Date: 7/25/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	390	60		mg/Kg	20	7/30/2020 4:26:39 PM	54068
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/30/2020 12:08:18 AM	53998
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/30/2020 12:08:18 AM	53998
Surr: DNOP	55.7	30.4-154		%Rec	1	7/30/2020 12:08:18 AM	53998
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/28/2020 5:47:15 PM	53975
Surr: BFB	88.2	66.6-105		%Rec	1	7/28/2020 5:47:15 PM	53975
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/28/2020 5:47:15 PM	53975
Toluene	ND	0.046		mg/Kg	1	7/28/2020 5:47:15 PM	53975
Ethylbenzene	ND	0.046		mg/Kg	1	7/28/2020 5:47:15 PM	53975
Xylenes, Total	ND	0.092		mg/Kg	1	7/28/2020 5:47:15 PM	53975
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	7/28/2020 5:47:15 PM	53975

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

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

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Analytical Report

Lab Order 2007D09

Date Reported: 8/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BG-3 0'

Project: Chimayo 16 St. 3

Collection Date: 7/23/2020 2:50:00 PM

Lab ID: 2007D09-012

Matrix: SOIL

Received Date: 7/25/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	1400	60		mg/Kg	20	7/30/2020 4:39:03 PM	54068
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/30/2020 12:32:42 AM	53998
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/30/2020 12:32:42 AM	53998
Surr: DNOP	61.9	30.4-154		%Rec	1	7/30/2020 12:32:42 AM	53998
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/28/2020 6:10:45 PM	53975
Surr: BFB	85.2	66.6-105		%Rec	1	7/28/2020 6:10:45 PM	53975
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/28/2020 6:10:45 PM	53975
Toluene	ND	0.047		mg/Kg	1	7/28/2020 6:10:45 PM	53975
Ethylbenzene	ND	0.047		mg/Kg	1	7/28/2020 6:10:45 PM	53975
Xylenes, Total	ND	0.093		mg/Kg	1	7/28/2020 6:10:45 PM	53975
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	7/28/2020 6:10:45 PM	53975

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

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

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Analytical Report

Lab Order 2007D09

Date Reported: 8/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BG-4 0'

Project: Chimayo 16 St. 3

Collection Date: 7/23/2020 2:55:00 PM

Lab ID: 2007D09-013

Matrix: SOIL

Received Date: 7/25/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	29000	1500		mg/Kg	500	7/31/2020 2:01:25 PM	54068
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/30/2020 12:57:10 AM	53998
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/30/2020 12:57:10 AM	53998
Surr: DNOP	82.6	30.4-154		%Rec	1	7/30/2020 12:57:10 AM	53998
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/28/2020 6:34:16 PM	53975
Surr: BFB	86.3	66.6-105		%Rec	1	7/28/2020 6:34:16 PM	53975
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/28/2020 6:34:16 PM	53975
Toluene	ND	0.047		mg/Kg	1	7/28/2020 6:34:16 PM	53975
Ethylbenzene	ND	0.047		mg/Kg	1	7/28/2020 6:34:16 PM	53975
Xylenes, Total	ND	0.094		mg/Kg	1	7/28/2020 6:34:16 PM	53975
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	7/28/2020 6:34:16 PM	53975

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

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

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QC SUMMARY REPORT

WO#: 2007D09

Hall Environmental Analysis Laboratory, Inc.

06-Aug-20

Client: Talon Artesia
Project: Chimayo 16 St. 3

Sample ID: MB-54063	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 54063	RunNo: 70743								
Prep Date: 7/30/2020	Analysis Date: 7/30/2020	SeqNo: 2461854	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-54063	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 54063	RunNo: 70743								
Prep Date: 7/30/2020	Analysis Date: 7/30/2020	SeqNo: 2461855	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.2	90	110			

Sample ID: MB-54068	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 54068	RunNo: 70745								
Prep Date: 7/30/2020	Analysis Date: 7/30/2020	SeqNo: 2461989	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-54068	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 54068	RunNo: 70745								
Prep Date: 7/30/2020	Analysis Date: 7/30/2020	SeqNo: 2461990	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.7	90	110			

Qualifiers:

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

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

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QC SUMMARY REPORT

WO#: 2007D09

Hall Environmental Analysis Laboratory, Inc.

06-Aug-20

Client: Talon Artesia
Project: Chimayo 16 St. 3

Sample ID: LCS-53998	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 53998	RunNo: 70650								
Prep Date: 7/28/2020	Analysis Date: 7/29/2020	SeqNo: 2461015 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	101	70	130			
Surr: DNOP	4.1		5.000		81.5	30.4	154			

Sample ID: MB-53998	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 53998	RunNo: 70650								
Prep Date: 7/28/2020	Analysis Date: 7/29/2020	SeqNo: 2461016 Units: mg/Kg								
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	8.9		10.00		89.5	30.4	154			

Sample ID: LCS-54043	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 54043	RunNo: 70757								
Prep Date: 7/29/2020	Analysis Date: 7/30/2020	SeqNo: 2462544 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.0		5.000		79.6	30.4	154			

Sample ID: MB-54043	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 54043	RunNo: 70757								
Prep Date: 7/29/2020	Analysis Date: 7/30/2020	SeqNo: 2462545 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		114	30.4	154			

Qualifiers:

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

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

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QC SUMMARY REPORT

WO#: 2007D09

Hall Environmental Analysis Laboratory, Inc.

06-Aug-20

Client: Talon Artesia
Project: Chimayo 16 St. 3

Sample ID: mb-53975	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 53975	RunNo: 70649								
Prep Date: 7/27/2020	Analysis Date: 7/28/2020	SeqNo: 2458870 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	870		1000		87.0	66.6	105			

Sample ID: lcs-53975	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 53975	RunNo: 70649								
Prep Date: 7/27/2020	Analysis Date: 7/28/2020	SeqNo: 2458871 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	5.0	25.00	0	77.7	72.5	106			
Surr: BFB	950		1000		94.8	66.6	105			

Sample ID: 2007d09-002ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S-2 0'R	Batch ID: 53975	RunNo: 70649								
Prep Date: 7/27/2020	Analysis Date: 7/28/2020	SeqNo: 2458880 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.73	0	88.3	61.3	114			
Surr: BFB	950		989.1		95.7	66.6	105			

Sample ID: 2007d09-002amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S-2 0'R	Batch ID: 53975	RunNo: 70649								
Prep Date: 7/27/2020	Analysis Date: 7/28/2020	SeqNo: 2458881 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.8	23.99	0	93.9	61.3	114	3.13	20	
Surr: BFB	930		959.7		96.5	66.6	105	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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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

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QC SUMMARY REPORT

WO#: 2007D09

Hall Environmental Analysis Laboratory, Inc.

06-Aug-20

Client: Talon Artesia
Project: Chimayo 16 St. 3

Sample ID: mb-53975	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 53975			RunNo: 70649						
Prep Date: 7/27/2020	Analysis Date: 7/28/2020			SeqNo: 2458896		Units: mg/Kg				
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		101	80	120			

Sample ID: LCS-53975	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 53975			RunNo: 70649						
Prep Date: 7/27/2020	Analysis Date: 7/28/2020			SeqNo: 2458897			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	83.9	80	120			
Toluene	0.85	0.050	1.000	0	85.3	80	120			
Ethylbenzene	0.87	0.050	1.000	0	87.2	80	120			
Xylenes, Total	2.6	0.10	3.000	0	88.3	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID: 2007d09-001ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-1 O'R	Batch ID: 53975	RunNo: 70649								
Prep Date: 7/27/2020	Analysis Date: 7/28/2020	SeqNo: 2458905 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.024	0.9524	0	97.4	78.5	119			
Toluene	0.96	0.048	0.9524	0	101	75.7	123			
Ethylbenzene	0.99	0.048	0.9524	0	104	74.3	126			
Xylenes, Total	3.0	0.095	2.857	0	105	72.9	130			
Surr: 4-Bromofluorobenzene	0.99		0.9524		104	80	120			

Sample ID: 2007d09-001amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-1 O'R	Batch ID: 53975	RunNo: 70649								
Prep Date: 7/27/2020	Analysis Date: 7/28/2020	SeqNo: 2458906 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.023	0.9285	0	99.0	78.5	119	0.930	20	
Toluene	0.96	0.046	0.9285	0	103	75.7	123	0.429	20	
Ethylbenzene	0.99	0.046	0.9285	0	107	74.3	126	0.0559	20	
Xylenes, Total	3.0	0.093	2.786	0	107	72.9	130	1.04	20	
Surr: 4-Bromofluorobenzene	0.96		0.9285		104	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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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

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

Sample Log-In Check List

Client Name: Talon Artesia

Work Order Number: 2007D09

RcptNo: 1

Received By: Juan Rojas 7/25/2020 7:50:00 AM

Completed By: Juan Rojas 7/25/2020 8:02:15 AM

Reviewed By: EM 7/25/20

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:
(<2 or >12 unless noted)
Adjusted? _____
Checked by: JR 7/25/20

Special Handling (if applicable)

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

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

16. Additional remarks:

17. Cooler Information

Cooler No.	Temp. °C	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	0.2	Good				

Chain-of-Custody Record

Client: TALON LPE

Mailing Address: 408 W. TEXAS AVE
ARTESIA NM 88210

Phone #: 575-746-8748

email or Fax#:

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time: 4-DAY

☒ Standard ☐ Rush

Project Name: CHIMAYO ILG St. #3

Project #: 700794.349.01

Project Manager: R. PONS

Sampler: MICHAEL COLLIER

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CE): 0.3-0.1=0.2

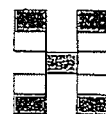
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
7/23/20	11:50	SOIL	S-1 O'R	GLASS 1	ICE/COOL	-001
	12:15		S-2 O'R			-002
	12:35		S-3 O'R			-003
	12:55		S-4 O'R			-004
	1:20		S-5 O'R			-005
	1:40		S-6 O'R			-006
	2:00		S-7 O'R			-007
	2:10		S-8 O'R			-008
	2:30		S-9 O'R			-009
	2:40		BG-1 O'			-010
	2:45		BG-2 O'			-011
	2:50		BG-3 O'			-012

Date: 7/23/20 Time: 11:50 Relinquished by: [Signature]

Received by: [Signature] Via: 7/24/20 Date: 7/24/20 Time: 11:50

Date: 7/24/20 Time: 1900 Relinquished by: [Signature]

Received by: [Signature] Via: 7/25/20 Date: 7/25/20 Time: 7:50



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

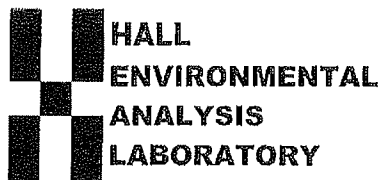
Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	CF, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)										
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>													

Remarks: DIRECT BILL TO DEVON ENERGY
ATTN: TOM BYNUM

W/O# 20836460 Pg 1 of 2

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



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

September 16, 2020

Rebecca Pons
Talon Artesia
408 West Texas Ave
Artesia, NM 88210
TEL:
FAX

RE: Devon Energy Chimayo 16 St 3

OrderNo.: 2009393

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 7 sample(s) on 9/5/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2009393

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-8 2'

Project: Devon Energy Chimayo 16 St 3

Collection Date: 9/1/2020 1:45:00 PM

Lab ID: 2009393-001

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	3200	150		mg/Kg	50	9/14/2020 7:29:14 PM	55118
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/9/2020 6:47:12 PM	54984
Surr: BFB	107	70-130		%Rec	1	9/9/2020 6:47:12 PM	54984
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/9/2020 10:19:45 AM	55017
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/9/2020 10:19:45 AM	55017
Surr: DNOP	181	30.4-154	S	%Rec	1	9/9/2020 10:19:45 AM	55017

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

Qualifiers:

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

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

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Analytical Report

Lab Order 2009393

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-8 4'

Project: Devon Energy Chimayo 16 St 3

Collection Date: 9/1/2020 2:30:00 PM

Lab ID: 2009393-002

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1600	60		mg/Kg	20	9/13/2020 1:28:59 PM	55118
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/9/2020 8:12:59 PM	54984
Surr: BFB	102	70-130		%Rec	1	9/9/2020 8:12:59 PM	54984
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/9/2020 11:41:19 AM	55017
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/9/2020 11:41:19 AM	55017
Surr: DNOP	154	30.4-154	S	%Rec	1	9/9/2020 11:41:19 AM	55017

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

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

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Analytical Report

Lab Order 2009393

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-8 6'

Project: Devon Energy Chimayo 16 St 3

Collection Date: 9/2/2020 11:10:00 AM

Lab ID: 2009393-003

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	460	60		mg/Kg	20	9/13/2020 2:06:13 PM	55118
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/9/2020 9:38:33 PM	54984
Surr: BFB	102	70-130		%Rec	1	9/9/2020 9:38:33 PM	54984
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/9/2020 12:05:11 PM	55017
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/9/2020 12:05:11 PM	55017
Surr: DNOP	172	30.4-154	S	%Rec	1	9/9/2020 12:05:11 PM	55017

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

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

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Analytical Report

Lab Order 2009393

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-8 8'

Project: Devon Energy Chimayo 16 St 3

Collection Date: 9/2/2020 12:30:00 PM

Lab ID: 2009393-004

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	320	60		mg/Kg	20	9/13/2020 2:18:37 PM	55118
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/9/2020 10:07:05 PM	54984
Surr: BFB	102	70-130		%Rec	1	9/9/2020 10:07:05 PM	54984
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/9/2020 12:29:12 PM	55017
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/9/2020 12:29:12 PM	55017
Surr: DNOP	154	30.4-154	S	%Rec	1	9/9/2020 12:29:12 PM	55017

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

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

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Analytical Report

Lab Order 2009393

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-5 2'

Project: Devon Energy Chimayo 16 St 3

Collection Date: 9/3/2020 12:00:00 PM

Lab ID: 2009393-005

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1200	59		mg/Kg	20	9/13/2020 2:31:01 PM	55118
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/10/2020 12:29:47 AM	54984
Surr: BFB	101	70-130		%Rec	1	9/10/2020 12:29:47 AM	54984
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	49	9.9		mg/Kg	1	9/14/2020 9:30:19 AM	55115
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/14/2020 9:30:19 AM	55115
Surr: DNOP	101	30.4-154		%Rec	1	9/14/2020 9:30:19 AM	55115

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

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

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Analytical Report

Lab Order 2009393

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-5 Trench 2'

Project: Devon Energy Chimayo 16 St 3

Collection Date: 9/3/2020 12:45:00 PM

Lab ID: 2009393-006

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	90	60		mg/Kg	20	9/13/2020 2:43:26 PM	55118
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/10/2020 12:58:19 AM	54984
Surr: BFB	99.6	70-130		%Rec	1	9/10/2020 12:58:19 AM	54984
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/9/2020 1:46:39 PM	55017
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/9/2020 1:46:39 PM	55017
Surr: DNOP	120	30.4-154		%Rec	1	9/9/2020 1:46:39 PM	55017

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

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

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Analytical Report

Lab Order 2009393

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BG-3 1'

Project: Devon Energy Chimayo 16 St 3

Collection Date: 9/1/2020 1:00:00 PM

Lab ID: 2009393-007

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	980	60		mg/Kg	20	9/13/2020 2:55:50 PM	55118
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/10/2020 1:26:51 AM	54984
Surr: BFB	100	70-130		%Rec	1	9/10/2020 1:26:51 AM	54984
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	12	8.9		mg/Kg	1	9/9/2020 2:10:43 PM	55017
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	9/9/2020 2:10:43 PM	55017
Surr: DNOP	102	30.4-154		%Rec	1	9/9/2020 2:10:43 PM	55017

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

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

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QC SUMMARY REPORT

WO#: 2009393

Hall Environmental Analysis Laboratory, Inc.

16-Sep-20

Client: Talon Artesia

Project: Devon Energy Chimayo 16 St 3

Sample ID: MB-55118	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 55118	RunNo: 71822								
Prep Date: 9/13/2020	Analysis Date: 9/13/2020	SeqNo: 2513386	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-55118	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 55118	RunNo: 71822								
Prep Date: 9/13/2020	Analysis Date: 9/13/2020	SeqNo: 2513387	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.6	90	110			

Qualifiers:

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

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

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QC SUMMARY REPORT

WO#: 2009393

Hall Environmental Analysis Laboratory, Inc.

16-Sep-20

Client: Talon Artesia

Project: Devon Energy Chimayo 16 St 3

Sample ID: MB-55017	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 55017	RunNo: 71698								
Prep Date: 9/8/2020	Analysis Date: 9/9/2020	SeqNo: 2509092 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		116	30.4	154			

Sample ID: LCS-55019	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 55019	RunNo: 71721								
Prep Date: 9/9/2020	Analysis Date: 9/10/2020	SeqNo: 2511324 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		85.1	30.4	154			

Sample ID: MB-55019	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 55019	RunNo: 71721								
Prep Date: 9/9/2020	Analysis Date: 9/10/2020	SeqNo: 2511325 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.3		10.00		92.5	30.4	154			

Sample ID: MB-55115	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 55115	RunNo: 71810								
Prep Date: 9/12/2020	Analysis Date: 9/14/2020	SeqNo: 2512645 Units: mg/Kg								
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	9.5		10.00		95.4	30.4	154			

Sample ID: LCS-55115	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 55115	RunNo: 71810								
Prep Date: 9/12/2020	Analysis Date: 9/14/2020	SeqNo: 2512649 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.5	70	130			
Surr: DNOP	4.2		5.000		84.5	30.4	154			

Qualifiers:

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

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

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QC SUMMARY REPORT

WO#: 2009393

Hall Environmental Analysis Laboratory, Inc.

16-Sep-20

Client: Talon Artesia**Project:** Devon Energy Chimayo 16 St 3

Sample ID: lcs-54984	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 54984	RunNo: 71719								
Prep Date: 9/6/2020	Analysis Date: 9/9/2020	SeqNo: 2508976 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	84.3	70	130			
Surr: BFB	500		500.0		99.4	70	130			

Sample ID: mb-54984	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 54984	RunNo: 71719								
Prep Date: 9/6/2020	Analysis Date: 9/9/2020	SeqNo: 2508977 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	500		500.0		101	70	130			

Sample ID: 2009393-002ams	SampType: MS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: S-8 4'	Batch ID: 54984	RunNo: 71719								
Prep Date: 9/6/2020	Analysis Date: 9/9/2020	SeqNo: 2508993 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	24.83	0	81.6	49.2	122			
Surr: BFB	500		496.5		101	70	130			

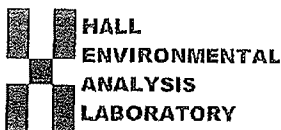
Sample ID: 2009393-002amsd	SampType: MSD	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: S-8 4'	Batch ID: 54984	RunNo: 71719								
Prep Date: 9/6/2020	Analysis Date: 9/9/2020	SeqNo: 2508994 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	24.88	0	83.3	49.2	122	2.24	20	
Surr: BFB	520		497.5		104	70	130	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 Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

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

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

Sample Log-In Check List

Client Name: Talon Artesia

Work Order Number: 2009393

RcptNo: 1

Received By: Juan Rojas 9/5/2020 7:45:00 AM

Completed By: Juan Rojas 9/5/2020 8:06:14 AM

Reviewed By: *JE 9/5/20*

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:
(<2 or >12 unless noted)

Adjusted? _____

Checked by: *SPA 9.5.20*

Special Handling (if applicable)

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

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good				
2	1.3	Good				

Chain-of-Custody Record				Turn-Around Time: <u>4-day</u>		
Client: <u>Talon / LPE</u>				<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush		
Mailing Address: <u>on file</u>				Project Name: <u>Devon Energy</u>		
				<u>Chimayo 16 St 3</u>		
Phone #:				Project #: <u>700794.349.01</u>		
email or Fax#:				Project Manager:		
QA/QC Package:				<u>R Pons</u>		
<input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)				Sampler: <u>B Sinclair</u>		
Accreditation: <input type="checkbox"/> Az Compliance				On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<input type="checkbox"/> NELAC <input type="checkbox"/> Other				# of Coolers: <u>2</u>		
<input type="checkbox"/> EDD (Type)				Cooler Temp (including CF): <u>1.5-0.1=1.4</u>		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
9-1	13:45	Soil	S-8 2' XXXXXX	402 jar	ice	-001
9-1	14:30		S-8 4' XXXXXX			-002
9-2	11:10		S-8 6'			-003
9-2	12:30		S-8 8'			-004
9-3	12:00		S-5 2'			-005
9-3	12:45		S-5 Trench 2'			-006
9-1	13:00		B6-3 1'			-007
Date: <u>9/4/20</u> Time: <u>1015</u> Relinquished by: <u>[Signature]</u>				Received by: <u>[Signature]</u> Via: <u> </u> Date: <u>9/4/20</u> Time: <u>1015</u>		
Date: <u>9/4/20</u> Time: <u>1900</u> Relinquished by: <u>[Signature]</u>				Received by: <u>[Signature]</u> Via: <u> </u> Date: <u>9/5/20</u> Time: <u>7:45</u>		

www.hallenvironmental.com

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

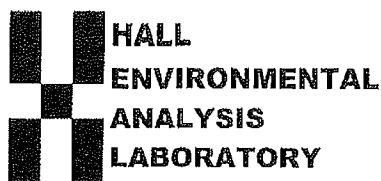
Analysis Request

[illegible]

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9/4/20	1015	<i>[Signature]</i>	<i>[Signature]</i>		9/4/20	1015
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9/4/20	1900	<i>[Signature]</i>	<i>[Signature]</i>		9/5/20	7:45

Remarks:	WO# 20836460
	Bill directly to Devon

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



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

September 28, 2020

Rebecca Pons
Talon Artesia
408 West Texas Ave
Artesia, NM 88210
TEL:
FAX:

RE: Chimayo 16 ST.3

OrderNo.: 2009A94

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 11 sample(s) on 9/18/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2009A94

Date Reported: 9/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BG-5 0'

Project: Chimayo 16 ST.3

Collection Date: 9/16/2020 10:00:00 AM

Lab ID: 2009A94-001

Matrix: SOIL

Received Date: 9/18/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	7600	300		mg/Kg	100	9/25/2020 8:39:32 PM	55410
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/21/2020 1:37:43 PM	55280
Surr: BFB	105	70-130		%Rec	1	9/21/2020 1:37:43 PM	55280
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/19/2020 12:43:17 PM	55271
Motor Oil Range Organics (MRO)	90	49		mg/Kg	1	9/19/2020 12:43:17 PM	55271
Surr: DNOP	103	30.4-154		%Rec	1	9/19/2020 12:43:17 PM	55271

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

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

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Analytical Report

Lab Order 2009A94

Date Reported: 9/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BG-6 0'

Project: Chimayo 16 ST.3

Collection Date: 9/16/2020 10:10:00 AM

Lab ID: 2009A94-002

Matrix: SOIL

Received Date: 9/18/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	490	59		mg/Kg	20	9/24/2020 5:06:29 PM	55410
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/21/2020 2:06:11 PM	55280
Surr: BFB	97.5	70-130		%Rec	1	9/21/2020 2:06:11 PM	55280
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/19/2020 12:53:04 PM	55271
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/19/2020 12:53:04 PM	55271
Surr: DNOP	100	30.4-154		%Rec	1	9/19/2020 12:53:04 PM	55271

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

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

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Analytical Report

Lab Order 2009A94

Date Reported: 9/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BG-7 0'

Project: Chimayo 16 ST.3

Collection Date: 9/16/2020 11:40:00 AM

Lab ID: 2009A94-003

Matrix: SOIL

Received Date: 9/18/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/24/2020 5:18:53 PM	55410
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/21/2020 2:34:48 PM	55280
Surr: BFB	106	70-130		%Rec	1	9/21/2020 2:34:48 PM	55280
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/19/2020 1:02:51 PM	55271
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/19/2020 1:02:51 PM	55271
Surr: DNOP	99.3	30.4-154		%Rec	1	9/19/2020 1:02:51 PM	55271

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

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

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Analytical Report

Lab Order 2009A94

Date Reported: 9/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-4A 2'R

Project: Chimayo 16 ST.3

Collection Date: 9/16/2020 10:30:00 AM

Lab ID: 2009A94-004

Matrix: SOIL

Received Date: 9/18/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	210	60		mg/Kg	20	9/24/2020 5:31:18 PM	55410
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/21/2020 3:03:18 PM	55280
Surr: BFB	104	70-130		%Rec	1	9/21/2020 3:03:18 PM	55280
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/19/2020 1:12:39 PM	55271
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/19/2020 1:12:39 PM	55271
Surr: DNOP	103	30.4-154		%Rec	1	9/19/2020 1:12:39 PM	55271

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

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

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Analytical Report

Lab Order 2009A94

Date Reported: 9/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-6A 1.5'R

Project: Chimayo 16 ST.3

Collection Date: 9/16/2020 11:10:00 AM

Lab ID: 2009A94-005

Matrix: SOLL

Received Date: 9/18/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1500	60		mg/Kg	20	9/24/2020 5:43:43 PM	55410
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/21/2020 3:31:48 PM	55280
Surr: BFB	104	70-130		%Rec	1	9/21/2020 3:31:48 PM	55280
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	23	9.4		mg/Kg	1	9/19/2020 1:22:28 PM	55271
Motor Oil Range Organics (MRO)	140	47		mg/Kg	1	9/19/2020 1:22:28 PM	55271
Surr: DNOP	92.1	30.4-154		%Rec	1	9/19/2020 1:22:28 PM	55271

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

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

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Analytical Report

Lab Order 2009A94

Date Reported: 9/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-10 1.5-2'R

Project: Chimayo 16 ST.3

Collection Date: 9/16/2020 11:00:00 AM

Lab ID: 2009A94-006

Matrix: SOIL

Received Date: 9/18/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	2400	60		mg/Kg	20	9/24/2020 6:20:56 PM	55410
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/21/2020 4:00:18 PM	55280
Surr: BFB	102	70-130		%Rec	1	9/21/2020 4:00:18 PM	55280
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	62	9.9		mg/Kg	1	9/19/2020 1:32:26 PM	55271
Motor Oil Range Organics (MRO)	350	49		mg/Kg	1	9/19/2020 1:32:26 PM	55271
Surr: DNOP	93.2	30.4-154		%Rec	1	9/19/2020 1:32:26 PM	55271

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

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

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Analytical Report

Lab Order 2009A94

Date Reported: 9/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-II 4'R

Project: Chimayo 16 ST.3

Collection Date: 9/16/2020 10:40:00 AM

Lab ID: 2009A94-007

Matrix: SOIL

Received Date: 9/18/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	5300	300		mg/Kg	100	9/25/2020 9:16:34 PM	55410
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/21/2020 4:28:47 PM	55280
Surr: BFB	99.4	70-130		%Rec	1	9/21/2020 4:28:47 PM	55280
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/19/2020 1:42:23 PM	55271
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/19/2020 1:42:23 PM	55271
Surr: DNOP	163	30.4-154	S	%Rec	1	9/19/2020 1:42:23 PM	55271

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

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

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Analytical Report

Lab Order 2009A94

Date Reported: 9/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-12 2'R

Project: Chimayo 16 ST.3

Collection Date: 9/16/2020 10:20:00 AM

Lab ID: 2009A94-008

Matrix: SOIL

Received Date: 9/18/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	910	60		mg/Kg	20	9/24/2020 6:45:45 PM	55410
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/21/2020 4:57:19 PM	55280
Surr: BFB	101	70-130		%Rec	1	9/21/2020 4:57:19 PM	55280
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	12	9.5		mg/Kg	1	9/19/2020 1:52:18 PM	55271
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/19/2020 1:52:18 PM	55271
Surr: DNOP	100	30.4-154		%Rec	1	9/19/2020 1:52:18 PM	55271

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

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

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Analytical Report

Lab Order 2009A94

Date Reported: 9/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-16 1.5-2'R

Project: Chimayo 16 ST.3

Collection Date: 9/16/2020 12:00:00 PM

Lab ID: 2009A94-009

Matrix: SOIL

Received Date: 9/18/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	7100	300		mg/Kg	100	9/25/2020 9:28:55 PM	55410
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/21/2020 5:25:50 PM	55280
Surr: BFB	106	70-130		%Rec	1	9/21/2020 5:25:50 PM	55280
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/19/2020 2:02:13 PM	55271
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/19/2020 2:02:13 PM	55271
Surr: DNOP	104	30.4-154		%Rec	1	9/19/2020 2:02:13 PM	55271

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not in Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2009A94

Date Reported: 9/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-17 1.5-2'R

Project: Chimayo 16 ST.3

Collection Date: 9/16/2020 11:50:00 AM

Lab ID: 2009A94-010

Matrix: SOIL

Received Date: 9/18/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	3000	150		mg/Kg	50	9/25/2020 9:41:15 PM	55409
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/21/2020 5:54:19 PM	55280
Surr: BFB	101	70-130		%Rec	1	9/21/2020 5:54:19 PM	55280
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	20	9.2		mg/Kg	1	9/19/2020 2:12:07 PM	55271
Motor Oil Range Organics (MRO)	140	46		mg/Kg	1	9/19/2020 2:12:07 PM	55271
Surr: DNOP	92.4	30.4-154		%Rec	1	9/19/2020 2:12:07 PM	55271

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

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

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Analytical Report

Lab Order 2009A94

Date Reported: 9/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-18 1.5'R

Project: Chimayo 16 ST.3

Collection Date: 9/16/2020 11:30:00 AM

Lab ID: 2009A94-011

Matrix: SOIL

Received Date: 9/18/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	1000	60		mg/Kg	20	9/24/2020 4:01:55 PM	55409
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/21/2020 6:22:48 PM	55280
Surr: BFB	106	70-130		%Rec	1	9/21/2020 6:22:48 PM	55280
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	11	9.8		mg/Kg	1	9/19/2020 2:22:01 PM	55271
Motor Oil Range Organics (MRO)	69	49		mg/Kg	1	9/19/2020 2:22:01 PM	55271
Surr: DNOP	112	30.4-154		%Rec	1	9/19/2020 2:22:01 PM	55271

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

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

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QC SUMMARY REPORT

WO#: 2009A94

Hall Environmental Analysis Laboratory, Inc.

28-Sep-20

Client: Talon Artesia
Project: Chimayo 16 ST.3

Sample ID: MB-55410	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 55410	RunNo: 72143								
Prep Date: 9/23/2020	Analysis Date: 9/24/2020	SeqNo: 2528909 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Sample ID: LCS-55410	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 55410	RunNo: 72143								
Prep Date: 9/23/2020	Analysis Date: 9/24/2020	SeqNo: 2528910 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.7	90	110			

Sample ID: MB-55409	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 55409	RunNo: 72148								
Prep Date: 9/23/2020	Analysis Date: 9/24/2020	SeqNo: 2529059 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-55409	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 55409	RunNo: 72148								
Prep Date: 9/23/2020	Analysis Date: 9/24/2020	SeqNo: 2529060 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.5	90	110			

Qualifiers:

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

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

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QC SUMMARY REPORT

WO#: 2009A94

Hall Environmental Analysis Laboratory, Inc.

28-Sep-20

Client: Talon Artesia
Project: Chimayo 16 ST.3

Sample ID: LCS-55271	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 55271	RunNo: 71994								
Prep Date: 9/18/2020	Analysis Date: 9/19/2020	SeqNo: 2520477 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.4	70	130			
Surr: DNOP	4.8		5.000		95.5	30.4	154			

Sample ID: MB-55271	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 55271	RunNo: 71994								
Prep Date: 9/18/2020	Analysis Date: 9/19/2020	SeqNo: 2520482 Units: mg/Kg								
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	11		10.00		109	30.4	154			

Qualifiers:

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

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

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QC SUMMARY REPORT

WO#: 2009A94

Hall Environmental Analysis Laboratory, Inc.

28-Sep-20

Client: Talon Artesia
Project: Chimayo 16 ST.3

Sample ID: mb-55280	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 55280	RunNo: 71999								
Prep Date: 9/19/2020	Analysis Date: 9/20/2020	SeqNo: 2521020	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

520

500.0

104

70

130

Sample ID: lcs-55280	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 55280	RunNo: 71999								
Prep Date: 9/19/2020	Analysis Date: 9/20/2020	SeqNo: 2521021		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)

23

5.0

25.00

0

91.4

70

130

Surr: BFB

520

500.0

104

70

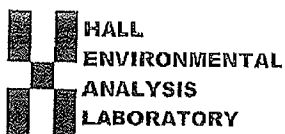
130

Qualifiers:

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

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

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

Sample Log-In Check List

Client Name: Talon Artesia

Work Order Number: 2009A94

RcptNo: 1

Received By: Cheyenne Cason

9/18/2020 8:00:00 AM

Completed By: Juan Rojas

9/18/2020 8:54:04 AM

Reviewed By: CRY

9/18/20

Juan Rojas

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: EM 9/18/20

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good				

Chain-of-Custody Record

Client: TALON LPE

Mailing Address: 408 W. TEXAS

Phone #: 575-746-8768

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time: 4-DAY

☒ Standard ☐ Rush

Project Name:

CHIMAYO 16 ST.3

Project #:

700794.349.01

Project Manager:

R. PONS

Sampler: MICHAEL COLLIER

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CF): 1.8 + 0.1 = 1.0

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
9-16-20	10:00	SOIL	B6-5 0'	GLASS 1	ICE/COOL	7009794
	10:10		B6-6 0'			-001
	10:40		B6-7 0'			-002
	10:30		S-4A 2'R			-003
	11:10		S-6A 1.5'R			-004
	11:00		S-10 1.5-2'R			-005
	10:40		S-11 4'R			-006
	10:20		S-12 2'R			-007
	12:00		S-16 1.5-2'R			-008
	11:50		S-17 1.5-2'R			-009
	11:30		S-18 1.5'R			-010
						-011

Date: 9/17/20 Time: 12:15 Relinquished by:

Date: 9/17/20 Time: 9:00 Relinquished by:

Received by: Via:

Received by: Via:

Date Time

9/17/20 12:15

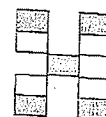
Date Time

9/18/20 0800

Remarks:

DIRECT BILL TO DEVON
ATTN: TOM BYNUM

W/O # 20836460

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	(C)F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)										
	✓					✓													

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



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

October 14, 2020

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

RE: Devon Energy Chimayo 16 St 3

OrderNo.: 2010414

Dear David Adkins:

Hall Environmental Analysis Laboratory received 6 sample(s) on 10/8/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2010414

Date Reported: 10/14/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: NE SW 2'

Project: Devon Energy Chimayo 16 St 3

Collection Date: 10/7/2020 11:05:00 AM

Lab ID: 2010414-001

Matrix: SOIL

Received Date: 10/8/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	350	60		mg/Kg	20	10/12/2020 8:16:17 PM	55789
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/9/2020 10:13:15 AM	55726
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/9/2020 10:13:15 AM	55726
Surr: DNOP	108	30.4-154		%Rec	1	10/9/2020 10:13:15 AM	55726
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/9/2020 1:50:46 PM	55723
Surr: BFB	96.3	75.3-105		%Rec	1	10/9/2020 1:50:46 PM	55723
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	10/9/2020 1:50:46 PM	55723
Toluene	ND	0.049		mg/Kg	1	10/9/2020 1:50:46 PM	55723
Ethylbenzene	ND	0.049		mg/Kg	1	10/9/2020 1:50:46 PM	55723
Xylenes, Total	ND	0.098		mg/Kg	1	10/9/2020 1:50:46 PM	55723
Surr: 4-Bromofluorobenzene	98.1	80-120		%Rec	1	10/9/2020 1:50:46 PM	55723

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

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

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Analytical Report

Lab Order 2010414

Date Reported: 10/14/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: SE SW 2'

Project: Devon Energy Chimayo 16 St 3

Collection Date: 10/7/2020 11:09:00 AM

Lab ID: 2010414-002

Matrix: SOIL

Received Date: 10/8/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1500	59		mg/Kg	20	10/12/2020 8:53:31 PM	55789
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/9/2020 10:41:54 AM	55726
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/9/2020 10:41:54 AM	55726
Surr: DNOP	128	30.4-154		%Rec	1	10/9/2020 10:41:54 AM	55726
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/9/2020 3:01:18 PM	55723
Surr: BFB	96.7	75.3-105		%Rec	1	10/9/2020 3:01:18 PM	55723
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	10/9/2020 3:01:18 PM	55723
Toluene	ND	0.049		mg/Kg	1	10/9/2020 3:01:18 PM	55723
Ethylbenzene	ND	0.049		mg/Kg	1	10/9/2020 3:01:18 PM	55723
Xylenes, Total	ND	0.098		mg/Kg	1	10/9/2020 3:01:18 PM	55723
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	10/9/2020 3:01:18 PM	55723

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

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

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Analytical Report

Lab Order 2010414

Date Reported: 10/14/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-20 N SW 2'

Project: Devon Energy Chimayo 16 St 3

Collection Date: 10/7/2020 11:14:00 AM

Lab ID: 2010414-003

Matrix: SOIL

Received Date: 10/8/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	960	60		mg/Kg	20	10/12/2020 9:05:55 PM	55789
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/9/2020 10:51:31 AM	55726
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/9/2020 10:51:31 AM	55726
Surr: DNOP	125	30.4-154		%Rec	1	10/9/2020 10:51:31 AM	55726
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/9/2020 4:11:41 PM	55723
Surr: BFB	101	75.3-105		%Rec	1	10/9/2020 4:11:41 PM	55723
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	10/9/2020 4:11:41 PM	55723
Toluene	ND	0.048		mg/Kg	1	10/9/2020 4:11:41 PM	55723
Ethylbenzene	ND	0.048		mg/Kg	1	10/9/2020 4:11:41 PM	55723
Xylenes, Total	ND	0.096		mg/Kg	1	10/9/2020 4:11:41 PM	55723
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	10/9/2020 4:11:41 PM	55723

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

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

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Analytical Report

Lab Order 2010414

Date Reported: 10/14/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-20 2'

Project: Devon Energy Chimayo 16 St 3

Collection Date: 10/7/2020 11:18:00 AM

Lab ID: 2010414-004

Matrix: SOIL

Received Date: 10/8/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	940	60		mg/Kg	20	10/12/2020 9:43:07 PM	55789
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	10/9/2020 11:01:08 AM	55726
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	10/9/2020 11:01:08 AM	55726
Surr: DNOP	119	30.4-154		%Rec	1	10/9/2020 11:01:08 AM	55726
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/9/2020 4:35:12 PM	55723
Surr: BFB	99.6	75.3-105		%Rec	1	10/9/2020 4:35:12 PM	55723
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	10/9/2020 4:35:12 PM	55723
Toluene	ND	0.047		mg/Kg	1	10/9/2020 4:35:12 PM	55723
Ethylbenzene	ND	0.047		mg/Kg	1	10/9/2020 4:35:12 PM	55723
Xylenes, Total	ND	0.095		mg/Kg	1	10/9/2020 4:35:12 PM	55723
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	10/9/2020 4:35:12 PM	55723

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

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

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Analytical Report

Lab Order 2010414

Date Reported: 10/14/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BG-8 0'

Project: Devon Energy Chimayo 16 St 3

Collection Date: 10/7/2020 11:23:00 AM

Lab ID: 2010414-005

Matrix: SOIL

Received Date: 10/8/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1400	61		mg/Kg	20	10/12/2020 9:55:32 PM	55789
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	10/9/2020 11:10:45 AM	55726
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	10/9/2020 11:10:45 AM	55726
Surr: DNOP	53.3	30.4-154		%Rec	1	10/9/2020 11:10:45 AM	55726
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/9/2020 4:58:40 PM	55723
Surr: BFB	97.8	75.3-105		%Rec	1	10/9/2020 4:58:40 PM	55723
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	10/9/2020 4:58:40 PM	55723
Toluene	ND	0.047		mg/Kg	1	10/9/2020 4:58:40 PM	55723
Ethylbenzene	ND	0.047		mg/Kg	1	10/9/2020 4:58:40 PM	55723
Xylenes, Total	ND	0.094		mg/Kg	1	10/9/2020 4:58:40 PM	55723
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	10/9/2020 4:58:40 PM	55723

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

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

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Analytical Report

Lab Order 2010414

Date Reported: 10/14/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BG-9 0'

Project: Devon Energy Chimayo 16 St 3

Collection Date: 10/7/2020 11:28:00 AM

Lab ID: 2010414-006

Matrix: SOIL

Received Date: 10/8/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1200	59		mg/Kg	20	10/12/2020 10:07:56 PM	55789
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	10/9/2020 11:20:24 AM	55726
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	10/9/2020 11:20:24 AM	55726
Surr: DNOP	80.3	30.4-154		%Rec	1	10/9/2020 11:20:24 AM	55726
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/9/2020 5:22:07 PM	55723
Surr: BFB	98.8	75.3-105		%Rec	1	10/9/2020 5:22:07 PM	55723
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	10/9/2020 5:22:07 PM	55723
Toluene	ND	0.049		mg/Kg	1	10/9/2020 5:22:07 PM	55723
Ethylbenzene	ND	0.049		mg/Kg	1	10/9/2020 5:22:07 PM	55723
Xylenes, Total	ND	0.097		mg/Kg	1	10/9/2020 5:22:07 PM	55723
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	10/9/2020 5:22:07 PM	55723

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2010414

14-Oct-20

Client: Talon Artesia

Project: Devon Energy Chimayo 16 St 3

Sample ID: MB-55789	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 55789	RunNo: 72606
Prep Date: 10/12/2020	Analysis Date: 10/12/2020	SeqNo: 2549456 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-55789	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 55789	RunNo: 72606
Prep Date: 10/12/2020	Analysis Date: 10/12/2020	SeqNo: 2549457 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 91.1 90 110

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2010414

14-Oct-20

Client: Talon Artesia**Project:** Devon Energy Chimayo 16 St 3

Sample ID: MB-55726		SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS		Batch ID: 55726			RunNo: 72550					
Prep Date: 10/8/2020		Analysis Date: 10/9/2020			SeqNo: 2546808		Units: mg/Kg			
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	13		10.00		126	30.4	154			

Sample ID: LCS-55726		SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS		Batch ID: 55726			RunNo: 72550					
Prep Date: 10/8/2020		Analysis Date: 10/9/2020			SeqNo: 2546810		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	10	50.00	0	112	70	130			
Surr: DNOP	6.2		5.000		123	30.4	154			

Sample ID: 2010414-001AMS		SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: NE SW 2'		Batch ID: 55726			RunNo: 72550					
Prep Date: 10/8/2020		Analysis Date: 10/9/2020			SeqNo: 2546852		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.2	46.04	0	104	15	184			
Surr: DNOP	5.7		4.604		124	30.4	154			

Sample ID: 2010414-001AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: NE SW 2'		Batch ID: 55726		RunNo: 72550						
Prep Date: 10/8/2020		Analysis Date: 10/9/2020		SeqNo: 2546854		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	30	9.3	46.73	0	63.3	15	184	46.9	23.9	R
Surr: DNOP	3.0		4.673		64.7	30.4	154	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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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

Page 8 of 10

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2010414

14-Oct-20

Client: Talon Artesia**Project:** Devon Energy Chimayo 16 St 3

Sample ID: 2010414-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: NE SW 2'	Batch ID: 55723	RunNo: 72552								
Prep Date: 10/8/2020	Analysis Date: 10/9/2020	SeqNo: 2546879 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.70	0	93.0	61.3	114			
Surr: BFB	1100		988.1		111	75.3	105			S

Sample ID: 2010414-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: NE SW 2'	Batch ID: 55723	RunNo: 72552								
Prep Date: 10/8/2020	Analysis Date: 10/9/2020	SeqNo: 2546880 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	24.90	0	101	61.3	114	9.39	20	
Surr: BFB	1100		996.0		111	75.3	105	0	0	S

Sample ID: lcs-55723	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 55723	RunNo: 72552								
Prep Date: 10/8/2020	Analysis Date: 10/9/2020	SeqNo: 2546912 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.0	72.5	106			
Surr: BFB	1100		1000		111	75.3	105			S

Sample ID: mb-55723	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 55723	RunNo: 72552								
Prep Date: 10/8/2020	Analysis Date: 10/9/2020	SeqNo: 2546914 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	980		1000		98.2	75.3	105			

Qualifiers:

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

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2010414

14-Oct-20

Client: Talon Artesia**Project:** Devon Energy Chimayo 16 St 3

Sample ID: 2010414-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SE SW 2'	Batch ID: 55723	RunNo: 72552								
Prep Date: 10/8/2020	Analysis Date: 10/9/2020	SeqNo: 2546922	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	0.9804	0	95.3	76.3	120			
Toluene	0.98	0.049	0.9804	0.01260	98.5	78.5	120			
Ethylbenzene	1.0	0.049	0.9804	0	102	78.1	124			
Xylenes, Total	3.0	0.098	2.941	0	102	79.3	125			
Surr: 4-Bromofluorobenzene	1.0		0.9804		105	80	120			

Sample ID: 2010414-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SE SW 2'	Batch ID: 55723	RunNo: 72552								
Prep Date: 10/8/2020	Analysis Date: 10/9/2020	SeqNo: 2546923	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	0.9930	0	96.7	76.3	120	2.75	20	
Toluene	1.0	0.050	0.9930	0.01260	99.9	78.5	120	2.64	20	
Ethylbenzene	1.0	0.050	0.9930	0	104	78.1	124	3.78	20	
Xylenes, Total	3.1	0.099	2.979	0	104	79.3	125	3.13	20	
Surr: 4-Bromofluorobenzene	1.0		0.9930		103	80	120	0	0	

Sample ID: LCS-55723	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 55723	RunNo: 72552								
Prep Date: 10/8/2020	Analysis Date: 10/9/2020	SeqNo: 2546954	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.0	80	120			
Toluene	0.96	0.050	1.000	0	96.0	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Sample ID: mb-55723	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 55723	RunNo: 72552								
Prep Date: 10/8/2020	Analysis Date: 10/9/2020	SeqNo: 2546956	Units: mg/Kg							
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		101	80	120			

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: Talon Artesia

Work Order Number: 2010414

RcptNo: 1

Received By: **Desiree Dominguez**

10/8/2020 7:45:00 AM

Completed By: **Juan Rojas**

10/8/2020 8:04:19 AM

Reviewed By:

Chain of Custody

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

Log In

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

Adjusted? ✓

Checked by: ✓

Special Handling (if applicable)

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

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.7	Good				

Released to Imaging: 7/21/2023 7:24:50 AM

QA/QC Package:

Accreditation: ☐ Az Compliance
☐ NEI AC ☐ Other

--	--	--	--

Project Name: Devon Energy

Project #: _____

Project Manager.

Sampler: Brandon Sinclair

Cooler Temp (including CF): $0.8 - 0.1 = 0.7^{\circ}\text{C}$		

Type and #	Type	2010/19
1000	100	1000

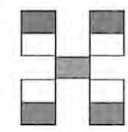
				003
				-003

				-005-
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Received by:	Via:	Date	Time
		10/20	1645

contracted to other accredited laboratories. This serves as notice of this



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

Date:	Time:	Relinquished by:
-------	-------	------------------

If necessary, samples submitted to Hall Environmental may be submitted to:

Received by:	Via:	Date	Time
		10/20	1645

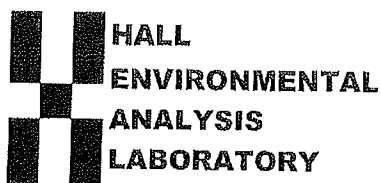
contracted to other accredited laboratories. This serves as notice of this

Remarks: Bill line + + - Dancer

Pill direct to DEVON
WFO #30821460

W0 # 20836960

is possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

October 29, 2020

Brandon Sinclair
Talon Artesia
408 West Texas Ave
Artesia, NM 88210
TEL:
FAX:

RE: Chimayo 16 st 3

OrderNo.: 2010B12

Dear Brandon Sinclair:

Hall Environmental Analysis Laboratory received 14 sample(s) on 10/23/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2010B12

Date Reported: 10/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: 3 SW

Project: Chimayo 16 st 3

Collection Date: 10/20/2020 11:30:00 AM

Lab ID: 2010B12-001

Matrix: SOIL

Received Date: 10/23/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	5400	300		mg/Kg	100	10/27/2020 7:45:13 PM	56038
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/24/2020 10:24:02 PM	56001
Surr: BFB	104	70-130		%Rec	1	10/24/2020 10:24:02 PM	56001
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/24/2020 8:07:32 PM	56002
Motor Oil Range Organics (MRO)	61	49		mg/Kg	1	10/24/2020 8:07:32 PM	56002
Surr: DNOP	133	30.4-154		%Rec	1	10/24/2020 8:07:32 PM	56002
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	10/24/2020 10:24:02 PM	56001
Toluene	ND	0.049		mg/Kg	1	10/24/2020 10:24:02 PM	56001
Ethylbenzene	ND	0.049		mg/Kg	1	10/24/2020 10:24:02 PM	56001
Xylenes, Total	ND	0.098		mg/Kg	1	10/24/2020 10:24:02 PM	56001
Surr: 1,2-Dichloroethane-d4	94.6	70-130		%Rec	1	10/24/2020 10:24:02 PM	56001
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	10/24/2020 10:24:02 PM	56001
Surr: Dibromofluoromethane	107	70-130		%Rec	1	10/24/2020 10:24:02 PM	56001
Surr: Toluene-d8	105	70-130		%Rec	1	10/24/2020 10:24:02 PM	56001

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

Qualifiers:	•	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 21

Analytical Report

Lab Order 2010B12

Date Reported: 10/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: WSW

Project: Chimayo 16 st 3

Collection Date: 10/20/2020 11:40:00 AM

Lab ID: 2010B12-002

Matrix: SOIL

Received Date: 10/23/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	410	60		mg/Kg	20	10/26/2020 6:14:04 PM	56038
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/24/2020 10:52:27 PM	56001
Surr: BFB	101	70-130		%Rec	1	10/24/2020 10:52:27 PM	56001
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	10/24/2020 8:31:54 PM	56002
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	10/24/2020 8:31:54 PM	56002
Surr: DNOP	57.5	30.4-154		%Rec	1	10/24/2020 8:31:54 PM	56002
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	10/24/2020 10:52:27 PM	56001
Toluene	ND	0.050		mg/Kg	1	10/24/2020 10:52:27 PM	56001
Ethylbenzene	ND	0.050		mg/Kg	1	10/24/2020 10:52:27 PM	56001
Xylenes, Total	ND	0.099		mg/Kg	1	10/24/2020 10:52:27 PM	56001
Surr: 1,2-Dichloroethane-d4	90.4	70-130		%Rec	1	10/24/2020 10:52:27 PM	56001
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	10/24/2020 10:52:27 PM	56001
Surr: Dibromofluoromethane	104	70-130		%Rec	1	10/24/2020 10:52:27 PM	56001
Surr: Toluene-d8	102	70-130		%Rec	1	10/24/2020 10:52:27 PM	56001

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

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

Page 2 of 21

Analytical Report

Lab Order 2010B12

Date Reported: 10/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: 18SW

Project: Chimayo 16 st 3

Collection Date: 10/20/2020 11:50:00 AM

Lab ID: 2010B12-003

Matrix: SOIL

Received Date: 10/23/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	8200	300		mg/Kg	100	10/27/2020 7:57:37 PM	56038
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/25/2020 1:15:23 AM	56001
Surr: BFB	110	70-130		%Rec	1	10/25/2020 1:15:23 AM	56001
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/24/2020 8:56:16 PM	56002
Motor Oil Range Organics (MRO)	60	48		mg/Kg	1	10/24/2020 8:56:16 PM	56002
Surr: DNOP	89.7	30.4-154		%Rec	1	10/24/2020 8:56:16 PM	56002
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	10/25/2020 1:15:23 AM	56001
Toluene	ND	0.049		mg/Kg	1	10/25/2020 1:15:23 AM	56001
Ethylbenzene	ND	0.049		mg/Kg	1	10/25/2020 1:15:23 AM	56001
Xylenes, Total	ND	0.098		mg/Kg	1	10/25/2020 1:15:23 AM	56001
Surr: 1,2-Dichloroethane-d4	92.1	70-130		%Rec	1	10/25/2020 1:15:23 AM	56001
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	10/25/2020 1:15:23 AM	56001
Surr: Dibromofluoromethane	106	70-130		%Rec	1	10/25/2020 1:15:23 AM	56001
Surr: Toluene-d8	103	70-130		%Rec	1	10/25/2020 1:15:23 AM	56001

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

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

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Analytical Report

Lab Order 2010B12

Date Reported: 10/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S3

Project: Chimayo 16 st 3

Collection Date: 10/20/2020 12:00:00 PM

Lab ID: 2010B12-004

Matrix: SOIL

Received Date: 10/23/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1200	61		mg/Kg	20	10/26/2020 6:38:53 PM	56038
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/25/2020 1:43:47 AM	56001
Surr: BFB	104	70-130		%Rec	1	10/25/2020 1:43:47 AM	56001
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/24/2020 9:20:35 PM	56002
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/24/2020 9:20:35 PM	56002
Surr: DNOP	88.6	30.4-154		%Rec	1	10/24/2020 9:20:35 PM	56002
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	10/25/2020 1:43:47 AM	56001
Toluene	ND	0.049		mg/Kg	1	10/25/2020 1:43:47 AM	56001
Ethylbenzene	ND	0.049		mg/Kg	1	10/25/2020 1:43:47 AM	56001
Xylenes, Total	ND	0.098		mg/Kg	1	10/25/2020 1:43:47 AM	56001
Surr: 1,2-Dichloroethane-d4	97.8	70-130		%Rec	1	10/25/2020 1:43:47 AM	56001
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	10/25/2020 1:43:47 AM	56001
Surr: Dibromofluoromethane	107	70-130		%Rec	1	10/25/2020 1:43:47 AM	56001
Surr: Toluene-d8	107	70-130		%Rec	1	10/25/2020 1:43:47 AM	56001

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

Qualifiers:	+	Value exceeds Maximum Contaminant Level.	D	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2010B12

Date Reported: 10/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S2

Project: Chimayo 16 st 3

Collection Date: 10/20/2020 12:10:00 PM

Lab ID: 2010B12-005

Matrix: SOIL

Received Date: 10/23/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	9400	300		mg/Kg	100	10/28/2020 12:28:34 PM	56069
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/25/2020 2:12:22 AM	56001
Surr: BFB	107	70-130		%Rec	1	10/25/2020 2:12:22 AM	56001
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/24/2020 9:44:54 PM	56002
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/24/2020 9:44:54 PM	56002
Surr: DNOP	80.9	30.4-154		%Rec	1	10/24/2020 9:44:54 PM	56002
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	10/25/2020 2:12:22 AM	56001
Toluene	ND	0.050		mg/Kg	1	10/25/2020 2:12:22 AM	56001
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2020 2:12:22 AM	56001
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2020 2:12:22 AM	56001
Surr: 1,2-Dichloroethane-d4	95.5	70-130		%Rec	1	10/25/2020 2:12:22 AM	56001
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	10/25/2020 2:12:22 AM	56001
Surr: Dibromofluoromethane	103	70-130		%Rec	1	10/25/2020 2:12:22 AM	56001
Surr: Toluene-d8	102	70-130		%Rec	1	10/25/2020 2:12:22 AM	56001

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

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	II Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

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Analytical Report

Lab Order 2010B12

Date Reported: 10/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S15

Project: Chimayo 16 st 3

Collection Date: 10/20/2020 12:20:00 PM

Lab ID: 2010B12-006

Matrix: SOIL

Received Date: 10/23/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	710	60		mg/Kg	20	10/27/2020 9:12:04 PM	56069
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/25/2020 2:41:03 AM	56001
Surr: BFB	101	70-130		%Rec	1	10/25/2020 2:41:03 AM	56001
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/24/2020 10:09:16 PM	56002
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/24/2020 10:09:16 PM	56002
Surr: DNOP	108	30.4-154		%Rec	1	10/24/2020 10:09:16 PM	56002
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	10/25/2020 2:41:03 AM	56001
Toluene	ND	0.049		mg/Kg	1	10/25/2020 2:41:03 AM	56001
Ethylbenzene	ND	0.049		mg/Kg	1	10/25/2020 2:41:03 AM	56001
Xylenes, Total	ND	0.098		mg/Kg	1	10/25/2020 2:41:03 AM	56001
Surr: 1,2-Dichloroethane-d4	97.5	70-130		%Rec	1	10/25/2020 2:41:03 AM	56001
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	10/25/2020 2:41:03 AM	56001
Surr: Dibromofluoromethane	107	70-130		%Rec	1	10/25/2020 2:41:03 AM	56001
Surr: Toluene-d8	103	70-130		%Rec	1	10/25/2020 2:41:03 AM	56001

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

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

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Analytical Report

Lab Order 2010B12

Date Reported: 10/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: EBG

Project: Chimayo 16 st 3

Collection Date: 10/20/2020 12:30:00 PM

Lab ID: 2010B12-007

Matrix: SOIL

Received Date: 10/23/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	140	59		mg/Kg	20	10/27/2020 9:24:28 PM	56069
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/25/2020 3:09:37 AM	56001
Surr: BFB	106	70-130		%Rec	1	10/25/2020 3:09:37 AM	56001
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/24/2020 10:33:35 PM	56002
Motor Oil Range Organics (MRO)	99	49		mg/Kg	1	10/24/2020 10:33:35 PM	56002
Surr: DNOP	129	30.4-154		%Rec	1	10/24/2020 10:33:35 PM	56002
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	10/25/2020 3:09:37 AM	56001
Toluene	ND	0.050		mg/Kg	1	10/25/2020 3:09:37 AM	56001
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2020 3:09:37 AM	56001
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2020 3:09:37 AM	56001
Surr: 1,2-Dichloroethane-d4	98.8	70-130		%Rec	1	10/25/2020 3:09:37 AM	56001
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	10/25/2020 3:09:37 AM	56001
Surr: Dibromofluoromethane	111	70-130		%Rec	1	10/25/2020 3:09:37 AM	56001
Surr: Toluene-d8	106	70-130		%Rec	1	10/25/2020 3:09:37 AM	56001

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

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

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Analytical Report

Lab Order 2010B12

Date Reported: 10/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: NSW

Project: Chimayo 16 st 3

Collection Date: 10/20/2020 12:40:00 PM

Lab ID: 2010B12-008

Matrix: SOIL

Received Date: 10/23/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	700	60		mg/Kg	20	10/27/2020 9:36:53 PM	56069
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/25/2020 3:38:00 AM	56001
Surr: BFB	100	70-130		%Rec	1	10/25/2020 3:38:00 AM	56001
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/24/2020 10:57:54 PM	56002
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/24/2020 10:57:54 PM	56002
Surr: DNOP	89.8	30.4-154		%Rec	1	10/24/2020 10:57:54 PM	56002
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	10/25/2020 3:38:00 AM	56001
Toluene	ND	0.049		mg/Kg	1	10/25/2020 3:38:00 AM	56001
Ethylbenzene	ND	0.049		mg/Kg	1	10/25/2020 3:38:00 AM	56001
Xylenes, Total	ND	0.099		mg/Kg	1	10/25/2020 3:38:00 AM	56001
Surr: 1,2-Dichloroethane-d4	95.6	70-130		%Rec	1	10/25/2020 3:38:00 AM	56001
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	10/25/2020 3:38:00 AM	56001
Surr: Dibromofluoromethane	102	70-130		%Rec	1	10/25/2020 3:38:00 AM	56001
Surr: Toluene-d8	97.8	70-130		%Rec	1	10/25/2020 3:38:00 AM	56001

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

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

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Analytical Report

Lab Order 2010B12

Date Reported: 10/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S7

Project: Chimayo 16 st 3

Collection Date: 10/20/2020 12:50:00 PM

Lab ID: 2010B12-009

Matrix: SOIL

Received Date: 10/23/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	750	60		mg/Kg	20	10/27/2020 9:49:18 PM	56069
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/25/2020 4:06:29 AM	56001
Surr: BFB	102	70-130		%Rec	1	10/25/2020 4:06:29 AM	56001
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/24/2020 11:22:12 PM	56002
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/24/2020 11:22:12 PM	56002
Surr: DNOP	98.5	30.4-154		%Rec	1	10/24/2020 11:22:12 PM	56002
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	10/25/2020 4:06:29 AM	56001
Toluene	ND	0.049		mg/Kg	1	10/25/2020 4:06:29 AM	56001
Ethylbenzene	ND	0.049		mg/Kg	1	10/25/2020 4:06:29 AM	56001
Xylenes, Total	ND	0.098		mg/Kg	1	10/25/2020 4:06:29 AM	56001
Surr: 1,2-Dichloroethane-d4	95.1	70-130		%Rec	1	10/25/2020 4:06:29 AM	56001
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	10/25/2020 4:06:29 AM	56001
Surr: Dibromofluoromethane	107	70-130		%Rec	1	10/25/2020 4:06:29 AM	56001
Surr: Toluene-d8	103	70-130		%Rec	1	10/25/2020 4:06:29 AM	56001

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

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

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Analytical Report

Lab Order 2010B12

Date Reported: 10/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S9

Project: Chimayo 16 st 3

Collection Date: 10/20/2020 1:00:00 PM

Lab ID: 2010B12-010

Matrix: SOIL

Received Date: 10/23/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1700	60		mg/Kg	20	10/27/2020 10:01:43 PM	56069
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/25/2020 4:35:02 AM	56001
Surr: BFB	108	70-130		%Rec	1	10/25/2020 4:35:02 AM	56001
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	10/24/2020 11:46:30 PM	56002
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/24/2020 11:46:30 PM	56002
Surr: DNOP	108	30.4-154		%Rec	1	10/24/2020 11:46:30 PM	56002
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	10/25/2020 4:35:02 AM	56001
Toluene	ND	0.050		mg/Kg	1	10/25/2020 4:35:02 AM	56001
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2020 4:35:02 AM	56001
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2020 4:35:02 AM	56001
Surr: 1,2-Dichloroethane-d4	96.0	70-130		%Rec	1	10/25/2020 4:35:02 AM	56001
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	10/25/2020 4:35:02 AM	56001
Surr: Dibromofluoromethane	100	70-130		%Rec	1	10/25/2020 4:35:02 AM	56001
Surr: Toluene-d8	101	70-130		%Rec	1	10/25/2020 4:35:02 AM	56001

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

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

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Analytical Report

Lab Order 2010B12

Date Reported: 10/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S14

Project: Chimayo 16 st 3

Collection Date: 10/20/2020 1:10:00 PM

Lab ID: 2010B12-011

Matrix: SOIL

Received Date: 10/23/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	3900	150		mg/Kg	50	10/28/2020 12:53:23 PM	56069
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/25/2020 5:03:37 AM	56001
Surr: BFB	105	70-130		%Rec	1	10/25/2020 5:03:37 AM	56001
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/25/2020 12:10:50 AM	56002
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/25/2020 12:10:50 AM	56002
Surr: DNOP	121	30.4-154		%Rec	1	10/25/2020 12:10:50 AM	56002
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	10/25/2020 5:03:37 AM	56001
Toluene	ND	0.049		mg/Kg	1	10/25/2020 5:03:37 AM	56001
Ethylbenzene	ND	0.049		mg/Kg	1	10/25/2020 5:03:37 AM	56001
Xylenes, Total	ND	0.098		mg/Kg	1	10/25/2020 5:03:37 AM	56001
Surr: 1,2-Dichloroethane-d4	99.1	70-130		%Rec	1	10/25/2020 5:03:37 AM	56001
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	10/25/2020 5:03:37 AM	56001
Surr: Dibromofluoromethane	106	70-130		%Rec	1	10/25/2020 5:03:37 AM	56001
Surr: Toluene-d8	102	70-130		%Rec	1	10/25/2020 5:03:37 AM	56001

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

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

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Analytical Report

Lab Order 2010B12

Date Reported: 10/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S19

Project: Chimayo 16 st 3

Collection Date: 10/20/2020 1:30:00 PM

Lab ID: 2010B12-012

Matrix: SOIL

Received Date: 10/23/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	5100	300		mg/Kg	100	10/28/2020 12:40:58 PM	56069
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/25/2020 5:32:14 AM	56001
Surr: BFB	106	70-130		%Rec	1	10/25/2020 5:32:14 AM	56001
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/25/2020 12:35:12 AM	56002
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/25/2020 12:35:12 AM	56002
Surr: DNOP	94.4	30.4-154		%Rec	1	10/25/2020 12:35:12 AM	56002
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	10/25/2020 5:32:14 AM	56001
Toluene	ND	0.049		mg/Kg	1	10/25/2020 5:32:14 AM	56001
Ethylbenzene	ND	0.049		mg/Kg	1	10/25/2020 5:32:14 AM	56001
Xylenes, Total	ND	0.099		mg/Kg	1	10/25/2020 5:32:14 AM	56001
Surr: 1,2-Dichloroethane-d4	91.9	70-130		%Rec	1	10/25/2020 5:32:14 AM	56001
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	10/25/2020 5:32:14 AM	56001
Surr: Dibromofluoromethane	106	70-130		%Rec	1	10/25/2020 5:32:14 AM	56001
Surr: Toluene-d8	107	70-130		%Rec	1	10/25/2020 5:32:14 AM	56001

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

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

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Analytical Report

Lab Order 2010B12

Date Reported: 10/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S13

Project: Chimayo 16 st 3

Collection Date: 10/20/2020 1:40:00 PM

Lab ID: 2010B12-013

Matrix: SOIL

Received Date: 10/23/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	5500	300		mg/Kg	100	10/28/2020 1:05:47 PM	56069
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/25/2020 3:04:12 AM	56003
Surr: BFB	89.8	70-130		%Rec	1	10/25/2020 3:04:12 AM	56003
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	26	10		mg/Kg	1	10/26/2020 1:44:37 PM	56014
Motor Oil Range Organics (MRO)	110	50		mg/Kg	1	10/26/2020 1:44:37 PM	56014
Surr: DNOP	81.3	30.4-154		%Rec	1	10/26/2020 1:44:37 PM	56014
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	10/25/2020 3:04:12 AM	56003
Toluene	ND	0.049		mg/Kg	1	10/25/2020 3:04:12 AM	56003
Ethylbenzene	ND	0.049		mg/Kg	1	10/25/2020 3:04:12 AM	56003
Xylenes, Total	ND	0.099		mg/Kg	1	10/25/2020 3:04:12 AM	56003
Surr: 1,2-Dichloroethane-d4	95.9	70-130		%Rec	1	10/25/2020 3:04:12 AM	56003
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	10/25/2020 3:04:12 AM	56003
Surr: Dibromofluoromethane	107	70-130		%Rec	1	10/25/2020 3:04:12 AM	56003
Surr: Toluene-d8	102	70-130		%Rec	1	10/25/2020 3:04:12 AM	56003

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

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

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Analytical Report

Lab Order 2010B12

Date Reported: 10/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: 17SW

Project: Chimayo 16 st 3

Collection Date: 10/20/2020 1:50:00 PM

Lab ID: 2010B12-014

Matrix: SOIL

Received Date: 10/23/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	400	60		mg/Kg	20	10/27/2020 10:51:20 PM	56069
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/25/2020 4:32:33 AM	56003
Surr: BFB	91.4	70-130		%Rec	1	10/25/2020 4:32:33 AM	56003
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/26/2020 2:08:37 PM	56014
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/26/2020 2:08:37 PM	56014
Surr: DNOP	82.7	30.4-154		%Rec	1	10/26/2020 2:08:37 PM	56014
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	10/25/2020 4:32:33 AM	56003
Toluene	ND	0.050		mg/Kg	1	10/25/2020 4:32:33 AM	56003
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2020 4:32:33 AM	56003
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2020 4:32:33 AM	56003
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	10/25/2020 4:32:33 AM	56003
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	10/25/2020 4:32:33 AM	56003
Surr: Dibromofluoromethane	107	70-130		%Rec	1	10/25/2020 4:32:33 AM	56003
Surr: Toluene-d8	106	70-130		%Rec	1	10/25/2020 4:32:33 AM	56003

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

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

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QC SUMMARY REPORT

WO#: 2010B12

Hall Environmental Analysis Laboratory, Inc.

29-Oct-20

Client: Talon Artesia

Project: Chimayo 16 st 3

Sample ID: MB-56038	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 56038	RunNo: 72931								
Prep Date: 10/26/2020	Analysis Date: 10/26/2020	SeqNo: 2564017 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-56038	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 56038	RunNo: 72931								
Prep Date: 10/26/2020	Analysis Date: 10/26/2020	SeqNo: 2564018 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.5	90	110			

Sample ID: MB-56069	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 56069	RunNo: 72930								
Prep Date: 10/27/2020	Analysis Date: 10/27/2020	SeqNo: 2565255 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-56069	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 56069	RunNo: 72930								
Prep Date: 10/27/2020	Analysis Date: 10/27/2020	SeqNo: 2565256 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.9	90	110			

Qualifiers:

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

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

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QC SUMMARY REPORT

WO#: 2010B12

Hall Environmental Analysis Laboratory, Inc.

29-Oct-20

Client: Talon Artesia

Project: Chimayo 16 st 3

Sample ID: MB-56002	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 56002	RunNo: 72912								
Prep Date: 10/23/2020	Analysis Date: 10/24/2020	SeqNo: 2562944 Units: mg/Kg								
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	11		10.00		107	30.4	154			

Sample ID: LCS-56002	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 56002	RunNo: 72912								
Prep Date: 10/23/2020	Analysis Date: 10/24/2020	SeqNo: 2562945 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.9	70	130			
Surr: DNOP	5.1		5.000		101	30.4	154			

Sample ID: LCS-56014	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 56014	RunNo: 72917								
Prep Date: 10/24/2020	Analysis Date: 10/26/2020	SeqNo: 2563396 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	108	70	130			
Surr: DNOP	5.3		5.000		106	30.4	154			

Sample ID: MB-56014	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 56014	RunNo: 72917								
Prep Date: 10/24/2020	Analysis Date: 10/26/2020	SeqNo: 2563397 Units: mg/Kg								
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	11		10.00		105	30.4	154			

Qualifiers:

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

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

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QC SUMMARY REPORT

WO#: 2010B12

Hall Environmental Analysis Laboratory, Inc.

29-Oct-20

Client: Talon Artesia

Project: Chimayo 16 st 3

Sample ID: mb-56001	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 56001	RunNo: 72901								
Prep Date: 10/23/2020	Analysis Date: 10/24/2020	SeqNo: 2562492	Units: mg/Kg							
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: 1,2-Dichloroethane-d4	0.48		0.5000		96.3	70	130			
Surr: 4-Bromofluorobenzene	0.55		0.5000		111	70	130			
Surr: Dibromofluoromethane	0.56		0.5000		111	70	130			
Surr: Toluene-d8	0.54		0.5000		109	70	130			

Sample ID: lcs-56001	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 56001	RunNo: 72901								
Prep Date: 10/23/2020	Analysis Date: 10/24/2020	SeqNo: 2562493	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.3	80	120			
Toluene	1.0	0.050	1.000	0	105	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80	120			
Xylenes, Total	3.2	0.10	3.000	0	107	80	120			
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		91.9	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		104	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		103	70	130			
Surr: Toluene-d8	0.52		0.5000		103	70	130			

Sample ID: mb-56011	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 56011	RunNo: 72903								
Prep Date: 10/23/2020	Analysis Date: 10/24/2020	SeqNo: 2562545	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		103	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		104	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		109	70	130			
Surr: Toluene-d8	0.54		0.5000		108	70	130			

Sample ID: lcs-56011	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 56011	RunNo: 72903								
Prep Date: 10/23/2020	Analysis Date: 10/24/2020	SeqNo: 2562546	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		104	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		105	70	130			

Qualifiers:

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

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

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QC SUMMARY REPORT

WO#: 2010B12

Hall Environmental Analysis Laboratory, Inc.

29-Oct-20

Client: Talon Artesia

Project: Chimayo 16 st 3

Sample ID: Ics-56011	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 56011	RunNo: 72903								
Prep Date: 10/23/2020	Analysis Date: 10/24/2020	SeqNo: 2562546 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130			
Surr: Toluene-d8	0.55		0.5000		109	70	130			

Sample ID: mb-56003		SampType: MBLK		TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: PBS		Batch ID: 56003		RunNo: 72903						
Prep Date: 10/23/2020		Analysis Date: 10/25/2020		SeqNo: 2562554		Units: mg/Kg				
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: 1,2-Dichloroethane-d4	0.50		0.5000		99.1	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		101	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		105	70	130			
Surr: Toluene-d8	0.51		0.5000		102	70	130			

Sample ID: Ics-56003	SampType: LCS4			TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: BatchQC	Batch ID: 56003			RunNo: 72903						
Prep Date: 10/23/2020	Analysis Date: 10/25/2020			SeqNo: 2562555		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.4	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.1	0.050	1.000	0	105	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 1,2-Dichloroethane-d4	0.51		0.5000		103	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.9	70	130			
Surr: Dibromofluoromethane	0.55		0.5000		110	70	130			
Surr: Toluene-d8	0.51		0.5000		102	70	130			

Sample ID: 2010b12-013ams	SampType: MS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: S13	Batch ID: 56003	RunNo: 72903								
Prep Date: 10/23/2020	Analysis Date: 10/25/2020	SeqNo: 2562557 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9921	0	106	71.1	115			
Toluene	1.2	0.050	0.9921	0	118	79.6	132			
Ethylbenzene	1.2	0.050	0.9921	0	123	83.8	134			
Xylenes, Total	3.5	0.099	2.976	0	118	82.4	132			

Qualifiers:

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

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

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QC SUMMARY REPORT

WO#: 2010B12

Hall Environmental Analysis Laboratory, Inc.

29-Oct-20

Client: Talon Artesia

Project: Chimayo 16 st 3

Sample ID: 2010b12-013ams	SampType: MS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: S13	Batch ID: 56003	RunNo: 72903								
Prep Date: 10/23/2020	Analysis Date: 10/25/2020	SeqNo: 2562557 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.51		0.4960		103	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.4960		100	70	130			
Surr: Dibromofluoromethane	0.55		0.4960		110	70	130			
Surr: Toluene-d8	0.52		0.4960		104	70	130			

Sample ID: 2010b12-013amsd	SampType: MSD4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: S13	Batch ID: 56003	RunNo: 72903								
Prep Date: 10/23/2020	Analysis Date: 10/25/2020	SeqNo: 2562558 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9960	0	105	71.1	115	0.968	20	
Toluene	1.2	0.050	0.9960	0	117	79.6	132	0.413	20	
Ethylbenzene	1.2	0.050	0.9960	0	118	83.8	134	3.55	20	
Xylenes, Total	3.5	0.10	2.988	0	117	82.4	132	0.328	20	
Surr: 1,2-Dichloroethane-d4	0.52		0.4980		105	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.50		0.4980		101	70	130	0	0	
Surr: Dibromofluoromethane	0.55		0.4980		111	70	130	0	0	
Surr: Toluene-d8	0.51		0.4980		103	70	130	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 Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

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

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QC SUMMARY REPORT

WO#: 2010B12

Hall Environmental Analysis Laboratory, Inc.

29-Oct-20

Client: Talon Artesia

Project: Chimayo 16 st 3

Sample ID: mb-56001	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 56001	RunNo: 72901								
Prep Date: 10/23/2020	Analysis Date: 10/24/2020	SeqNo: 2562518 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

540

500.0

109

70

130

Sample ID: Ics-56001	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 56001	RunNo: 72901								
Prep Date: 10/23/2020	Analysis Date: 10/24/2020	SeqNo: 2562519 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)

22

5.0

25.00

0

88.9

70

130

Surr: BFB

520

500.0

103

70

130

Sample ID: mb-56011	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 56011	RunNo: 72903								
Prep Date: 10/23/2020	Analysis Date: 10/24/2020	SeqNo: 2562573 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: BFB

450

500.0

90.8

70

130

Sample ID: lcs-56011	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 56011	RunNo: 72903								
Prep Date: 10/23/2020	Analysis Date: 10/24/2020	SeqNo: 2562574 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: BFB

460

500.0

91.2

70

130

Sample ID: mb-56003	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 56003	RunNo: 72903								
Prep Date: 10/23/2020	Analysis Date: 10/25/2020	SeqNo: 2562591 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

450

500.0

89.3

70

130

Sample ID: lcs-56003	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 56003	RunNo: 72903								
Prep Date: 10/23/2020	Analysis Date: 10/25/2020	SeqNo: 2562592 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)

22

5.0

25.00

0

87.4

70

130

Surr: BFB

440

500.0

88.5

70

130

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT

WO#: 2010B12

Hall Environmental Analysis Laboratory, Inc.

29-Oct-20

Client: Talon Artesia**Project:** Chimayo 16 st 3

Sample ID: 2010b12-014ams	SampType: MS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: 17SW	Batch ID: 56003	RunNo: 72903								
Prep Date: 10/23/2020	Analysis Date: 10/25/2020	SeqNo: 2562595 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	43	4.9	49.31	0	86.9	49.2	122			
Surr: BFB	440		493.1		89.8	70	130			

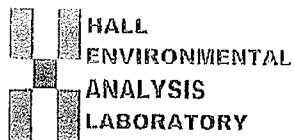
Sample ID: 2010b12-014amsd	SampType: MSD	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: 17SW	Batch ID: 56003	RunNo: 72903								
Prep Date: 10/23/2020	Analysis Date: 10/25/2020	SeqNo: 2562596 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	24.88	0	90.3	49.2	122	62.4	20	R
Surr: BFB	460		497.5		92.3	70	130	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 Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

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

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

Sample Log-In Check List

Client Name: Talon Artesia

Work Order Number: 2010B12

RcptNo: 1

Received By: Cheyenne Cason 10/23/2020 8:00:00 AM

Completed By: Erin Melendrez 10/23/2020 8:23:35 AM

Reviewed By: SPA 10-23-20

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☐ No ☒ NA ☐
5. Sample(s) in proper container(s)? samples not frozen. Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels? Yes ☒ No ☐
(Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met? Yes ☒ No ☐
(If no, notify customer for authorization.)
- # of preserved bottles checked for pH:
(<2 or >12 unless noted)
Adjusted?
Checked by: SP 10/23/20

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via:

☐ eMail☐ Phone☐ Fax☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.2	Good				
2	4.0	Good				
3	-0.6	Good				

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

Chain-of-Custody Record

Client: Talon LPE

408 W Texas St

Mailing Address: Artesia, NM 88210

Phone #:

email or Fax#: (575) 746-8905

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time: 4/Day

☒ Standard ☐ Rush

Project Name: Chimay 6 16 St 3

Project #: 700 794,349.0

Project Manager: *B. Sinclair*

Sampler: Royce

On Ice	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
--------	---	-----------------------------

of Coolers

Cooler Temp (including ch) 50 60 70 80 90 100

Container Type and #	Material	Weight	Volume	Notes
1
2
3
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100

Preservative
Type

HEAL No.

Date	Time	Matrix	Sample Name
------	------	--------	-------------

10/29/20	30	501	519
----------	----	-----	-----

140	513
-----	-----

150	175
-----	-----

Date:	Time:	Relinquished by:
-------	-------	------------------

22/11/1990

Date:	Time:	Relinquished by:
-------	-------	------------------

022/22 190

Received by: Via:

Via:

Date _____ Time _____

Date / / Time

Received by: Via:

V/a:

122/20

Date _____ Time _____

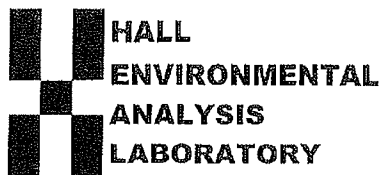
Remarks: Please cc the following via email:
Dadkins@talonline.com

Dadkins@talonlpe.com

Rpons@talonline.com

Bill Devon Direct
w/str 20836460

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



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

November 25, 2020

Brandon Sinclair

Talon Artesia

408 West Texas Ave

Artesia, NM 88210

TEL: (806) 467-0607

FAX (806) 467-0622

RE: Chimayo 16 St 3

OrderNo.: 2011A42

Dear Brandon Sinclair:

Hall Environmental Analysis Laboratory received 5 sample(s) on 11/20/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2011A42

Date Reported: 11/25/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-2 3¹

Project: Chimayo 16 St 3

Collection Date: 11/17/2020 10:30:00 AM

Lab ID: 2011A42-001

Matrix: SOIL

Received Date: 11/20/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: MRA	
Chloride	270	60		mg/Kg	20	11/25/2020 3:40:29 AM	56650

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

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

Page 1 of 6

Analytical Report

Lab Order 2011A42

Date Reported: 11/25/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-2 5'

Project: Chimayo 16 St 3

Collection Date: 11/17/2020 10:45:00 AM

Lab ID: 2011A42-002

Matrix: SOIL

Received Date: 11/20/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	130	60		mg/Kg	20	11/25/2020 4:42:30 AM	56650

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

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

Page 2 of 6

Analytical Report

Lab Order 2011A42

Date Reported: 11/25/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-2 10'

Project: Chimayo 16 St 3

Collection Date: 11/17/2020 10:55:00 AM

Lab ID: 2011A42-003

Matrix: SOIL

Received Date: 11/20/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	110	60		mg/Kg	20	11/25/2020 4:54:55 AM	56650

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

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

Page 3 of 6

Analytical Report

Lab Order 2011A42

Date Reported: 11/25/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Taton Artesia

Client Sample ID: S-2 15'

Project: Chimayo 16 St 3

Collection Date: 11/17/2020 11:05:00 AM

Lab ID: 2011A42-004

Matrix: SOIL

Received Date: 11/20/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	150	60		mg/Kg	20	11/25/2020 5:07:19 AM	56650

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	11	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 4 of 6

Analytical Report

Lab Order 2011A42

Date Reported: 11/25/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-2 20'

Project: Chimayo 16 St 3

Collection Date: 11/17/2020 11:20:00 AM

Lab ID: 2011A42-005

Matrix: SOIL

Received Date: 11/20/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	180	60		mg/Kg	20	11/25/2020 5:19:43 AM	56650

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

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

Page 5 of 6

QC SUMMARY REPORT

WO#: 2011A42

Hall Environmental Analysis Laboratory, Inc.

25-Nov-20

Client: Talon Artesia
Project: Chimayo 16 St 3

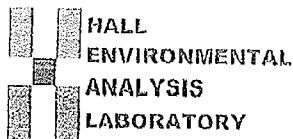
Sample ID: MB-56650	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 56650	RunNo: 73617								
Prep Date: 11/24/2020	Analysis Date: 11/25/2020	SeqNo: 2594136 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-56650	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 56650	RunNo: 73617								
Prep Date: 11/24/2020	Analysis Date: 11/25/2020	SeqNo: 2594137 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.8	90	110			

Qualifiers:

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

Page 6 of 6



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

Sample Log-In Check List

Client Name: Talon Artesia

Work Order Number: 2011A42

RcptNo: 1

Received By: Sean Livingston

11/20/2020 8:00:00 AM

Completed By: Erin Melendrez

11/20/2020 8:32:36 AM

Reviewed By:

JR 11/20/20

Chain of Custody1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐2. How was the sample delivered? CourierLog In3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☐ No ☒ NA ☐5. Sample(s) in proper container(s)? Yes ☒ No ☐Sample not frozen6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒10. Were any sample containers received broken? Yes ☐ No ☒11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody)Yes ☒ No ☐# of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

12. Are matrices correctly identified on Chain of Custody?

Yes ☒ No ☐

Adjusted?

13. Is it clear what analyses were requested?

Yes ☒ No ☐

14. Were all holding times able to be met?

Yes ☒ No ☐

(If no, notify customer for authorization.)

Checked by: JR 11/20/20

Special Handling (if applicable)15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	-0.7	Good				

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

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

Chain-of-Custody Record				Turn-Around Time: 4 DAY		
Client: TALON LPE				<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush		
Mailing Address: 408 W. TEXAS AVE ARTESIA, NM 88210				Project Name: CHIMAYO IL ST. #3		
Phone #: 575-746-2768 email or Fax#:				Project #: 700794.349.D1		
QA/QC Package: <input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)				Project Manager: B. SINCLAIR		
Accreditation: <input type="checkbox"/> Az Compliance				Sampler: MICHAEL COLLIER		
<input type="checkbox"/> NELAC <input type="checkbox"/> Other _____				On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<input type="checkbox"/> EDD (Type) _____				# of Coolers: 1		
				Cooler Temp (including CF): -0.6 -0.1 = -0.7 (°C)		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
11/7/20	10:30	SOIL	S-2 3'	GLASS 1	ICE/COL	2011A42
	10:45		S-2 5'			-001
	10:55		S-2 10'			-002
	11:05		S-2 15'			-003
	11:20		S-2 20'			-004
Date:	Time:	Relinquished by:		Received by:	Via:	Date Time
11/9/20	12:00	<i>[Signature]</i>		<i>[Signature]</i>		11/19/20 12:00
Date:	Time:	Relinquished by:		Received by:	Via:	Date Time
11/9/20	1900	<i>[Signature]</i>		SGC courier		11/20/20 8:00

If necessary, samples submitted to Hall Environmental may be subject to additional testing.

[illegible]

Remarks: samples not frozen
DIRECT BILL TO DEVON ENERGY
W/O # 20836460 ATTN: Tom Byrum

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

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-138
Revised August 1, 2011

*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:

Devon Energy
6488 Seven Rivers Hwy
Artesia, NM 88210

2. Originating Site:

Chimayo 16 State #3

3. Location of Material (Street Address, City, State or ULSTR):

32.1329002, -103.9933624

4. Source and Description of Waste:

Soil impacted from a produced water spill as a result of the pump discharge line impairment.

Estimated Volume 270 yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) 1,327 yd³ / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Rebecca Pons, representative or authorized agent for Devon Energy do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. Operator Use Only: Waste Acceptance Frequency ☐ Monthly ☐ Weekly ☐ Per Load

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Rebecca Pons, representative for Devon Energy do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter:

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Lea Land, LLC Permit #: WM-1-035

Address of Facility: MM 64 Hwy 62/180 East, Carlsbad, NM 88220

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☐ Landfarm ☒ Landfill ☐ Other

Waste Acceptance Status:

☒ APPROVED

☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Shelley Denton

TITLE: Manager

DATE: 9/9/20

SIGNATURE: Shelley Denton

TELEPHONE NO.: 405-236-4257

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

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 239621

CONDITIONS

Operator: RAYBAW Operating, LLC 2626 Cole Avenue Dallas, TX 75204	OGRID: 330220
	Action Number: 239621
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	Excavated soil from the top 2 feet of the historic excavation that will be used as backfill must have one 5-point composite sample collected every 100 cubic yards. The composite samples must be analyzed for all constituents in Table 1 and must meet the most stringent closure standards/reclamation standards. If the soil does not meet the most stringent closure standards/reclamation standard the soil must be hauled for disposal.	7/21/2023
bhall	Soil excavated from below 2 feet cannot be used for backfill.	7/21/2023
bhall	No soil blending is allowed.	7/21/2023
bhall	Include copies of all field notes and sampling procedures in the closure report.	7/21/2023
bhall	Variance request of 5-point composite confirmation samples representative of no more than 500 square feet approved.	7/21/2023
bhall	Include pictures of remediation process including excavation prior to backfill, locations of sample points, and stockpiled soil to be used as backfill.	7/21/2023
bhall	Submit a complete report through the OCD Permitting website by 10/21/2023.	7/21/2023