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Site Assessment and Closure Report

Softshell 22 Federal #1, Lease Road
Eddy County, NM
API# 30-015-39727
2RP-2931

Prepared For:

Devon Energy Production Company
6488 Seven Rivers Highway
Artesia, NM 88210

Prepared By:

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

May 18, 2020

Mr. Jim Amos
Bureau of Land Management
620 East Green Street
Carlsbad, NM 88220

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

Subject: **Site Assessment and Closure Report**
Softshell Road
API# 30-015-39727
2RP-2931

Dear Mr. Amos & Mr. Bratcher,

Devon Energy Production Company (Devon Energy) contracted Talon/LPE (Talon) to perform soil assessment services at the above-referenced location. The incident description, soil sampling results, and closure request are presented herein.

Site Information

The Softshell Road is located approximately thirty-five (35) miles southeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter K, Section 14, Township 25 South and Range 31 East in Eddy County, New Mexico. More specifically, the latitude and longitude for the release are 32.1221919 North and -103.7627012 West. A site plan is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Berino complex, 0 to 3 percent slopes. See [Appendix II](#) for the referenced soil survey. Per the New Mexico Bureau of Geology and Mineral Resources (USGS), the local surface and shallow geology are eolian and piedmont deposits. Holocene to middle Pleistocene in age and is comprised of eolian and piedmont deposits. Drainage courses in this area are well-drained.

Ground Water and Site Characterization

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 390-feet below ground surface (BGS). According to the USGS, the closest recorded depth to groundwater is 318-feet BGS. See [Appendix II](#) for the referenced groundwater depth data. This site is located within a low potential Karst area.

If a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to the groundwater in Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29 NMAC.

Approximate Depth to Groundwater 390 Feet/BGS

- Yes No Within 300 feet of any continuously flowing watercourse or any other significant watercourse
- Yes No Within 200 feet of any lakebed, sinkhole or playa lake
- Yes No Within 300 feet from an occupied permanent residence, school, hospital, institution or church
- Yes No Within 500 feet of a spring or a private, domestic freshwater well used by less than five households for domestic or stock watering purposes
- Yes No Within 1000 feet of any freshwater well or spring
- Yes No Within incorporated municipal boundaries or within a defined Municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
- Yes No Within 300 feet of a wetland
- Yes No Within the area overlying a subsurface mine
- Yes No Within an unstable area
- Yes No Within a 100-year floodplain

Because the release did not occur in any of these areas and the depth to groundwater is greater than 100-feet in-depth, based on the site characterization data, the cleanup criteria for this site are as follows.

Table I Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
>100 feet	Total Chlorides	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Incident Description

2RP-2931 On March 30, 2015, a mixture of cement and drilling fluids, approximately 30 barrels (bbls), was found dumped anonymously in three separate locations near the lease road. Approximately 20 bbls of these fluids were recovered by a vacuum truck.

Talon mobilized personnel to the site conducting a site assessment and collecting (18) five-point composite soil samples along the road in the vicinities detailed in the Initial C-141 ([Appendix III](#)). Sample locations are shown on the attached site map, and the results of our sampling event are presented in the following data table.

Site Sampling

Soil Sample Laboratory Results

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + GRO combined = 1000 mg/kg			2500 mg/kg	20,000 mg/kg
Road Composite-1	4/6/2020	0-1	ND	ND	ND	ND	ND	ND	ND
Road Composite-2		0-1	ND	ND	ND	ND	ND	ND	ND
Road Composite-3		0-1	ND	ND	ND	ND	ND	ND	96
Road Composite-4		0-1	ND	ND	ND	ND	ND	ND	ND
Road Composite-5		0-1	ND	ND	ND	ND	ND	ND	ND
Road Composite-6		0-1	ND	ND	ND	ND	ND	ND	ND
Road Composite-7		0-1	ND	ND	ND	ND	ND	ND	ND
Road Composite- 8		0-1	ND	ND	ND	ND	ND	ND	ND
Road Composite- 9		0-1	ND	ND	ND	ND	ND	ND	73
Road Composite- 10	4/29/2020	0-1	ND	ND	ND	ND	ND	ND	78
Road Composite- 11		0-1	ND	ND	ND	ND	ND	ND	150
Road Composite- 12		0-1	ND	ND	ND	ND	ND	ND	180
Road Composite- 13		0-1	ND	ND	ND	ND	ND	ND	350
Road Composite- 14		0-1	ND	ND	ND	ND	ND	ND	190
Road Composite- 15		0-1	ND	ND	ND	ND	ND	ND	ND
Road Composite- 16		0-1	ND	ND	ND	ND	ND	ND	490
Road Composite- 17		0-1	ND	ND	ND	ND	ND	ND	ND
Road Composite- 18		0-1	ND	ND	ND	ND	ND	ND	ND

ND= Analyte Not Detected

Complete laboratory reports can be found in [Appendix IV](#).

Remedial Actions

- Based upon the results of our sampling event, none of the analytical results exceeded the NMOCD clean up criteria for this incident. Therefore there was no need for soil remediation activities.

Closure

Based on this site characterization and analytical results, we request that no further actions be required, and that closure with regard to the attached incident be granted.

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

Respectfully submitted,

TALON/LPE



Chris K. Jones
Project Manager



David J. Adkins
District Manager

Attachments:

- Appendix I Site Map, Karst Map, TOPO Map & Locator Map
- Appendix II Soil Survey, Groundwater Data & FEMA Flood Zone
- Appendix III Initial & Final C-141
- Appendix IV Laboratory Data



APPENDIX I

SITE MAP

KARST MAP

TOPO MAP

LOCATION MAP

Softshell Road near Softshell 22 Fed 1

Devon Energy Production Company
Eddy County, NM
API 30-015-39727
Site Map

Legend

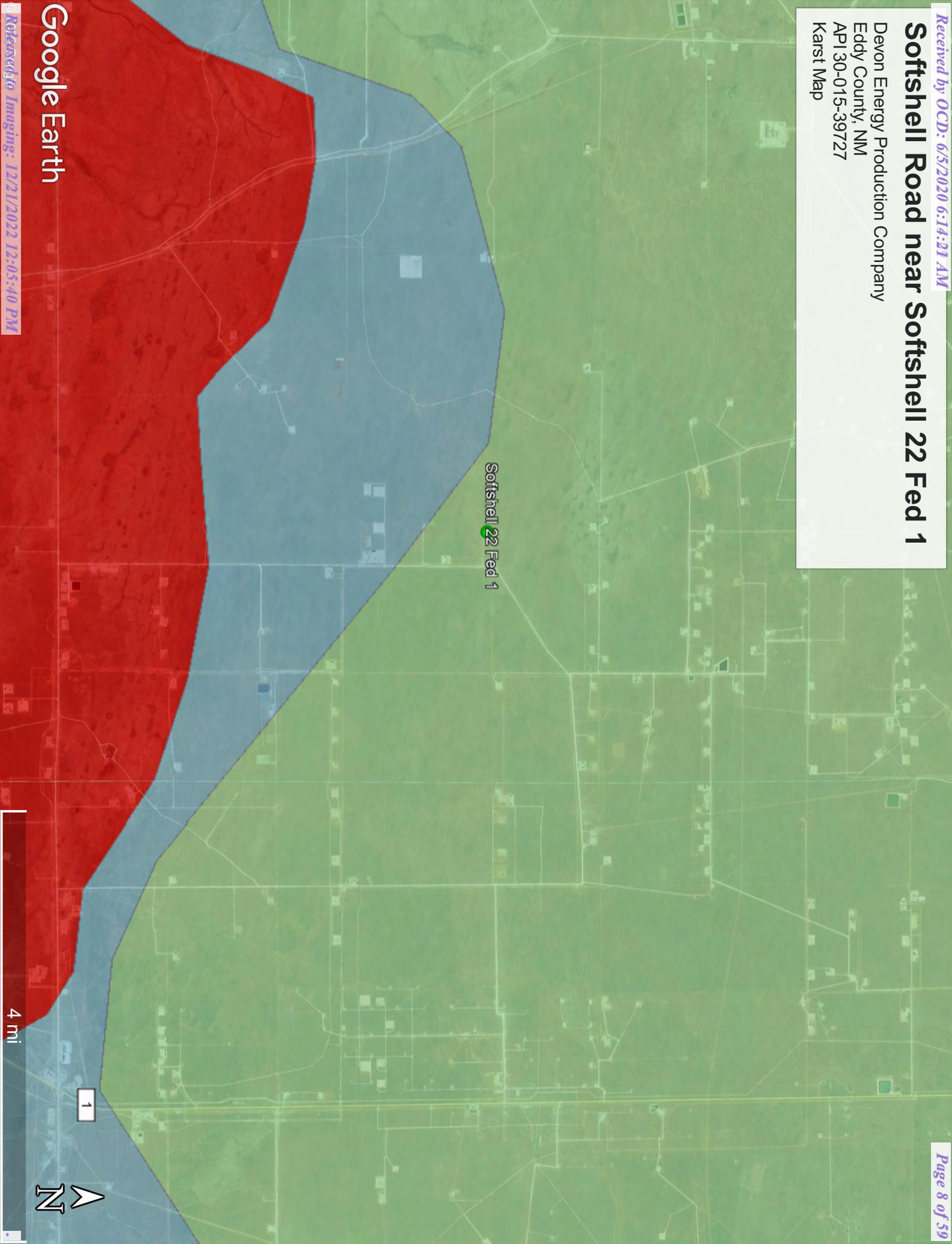
- Composite Samples



Google Earth

Softshell Road near Softshell 22 Fed 1

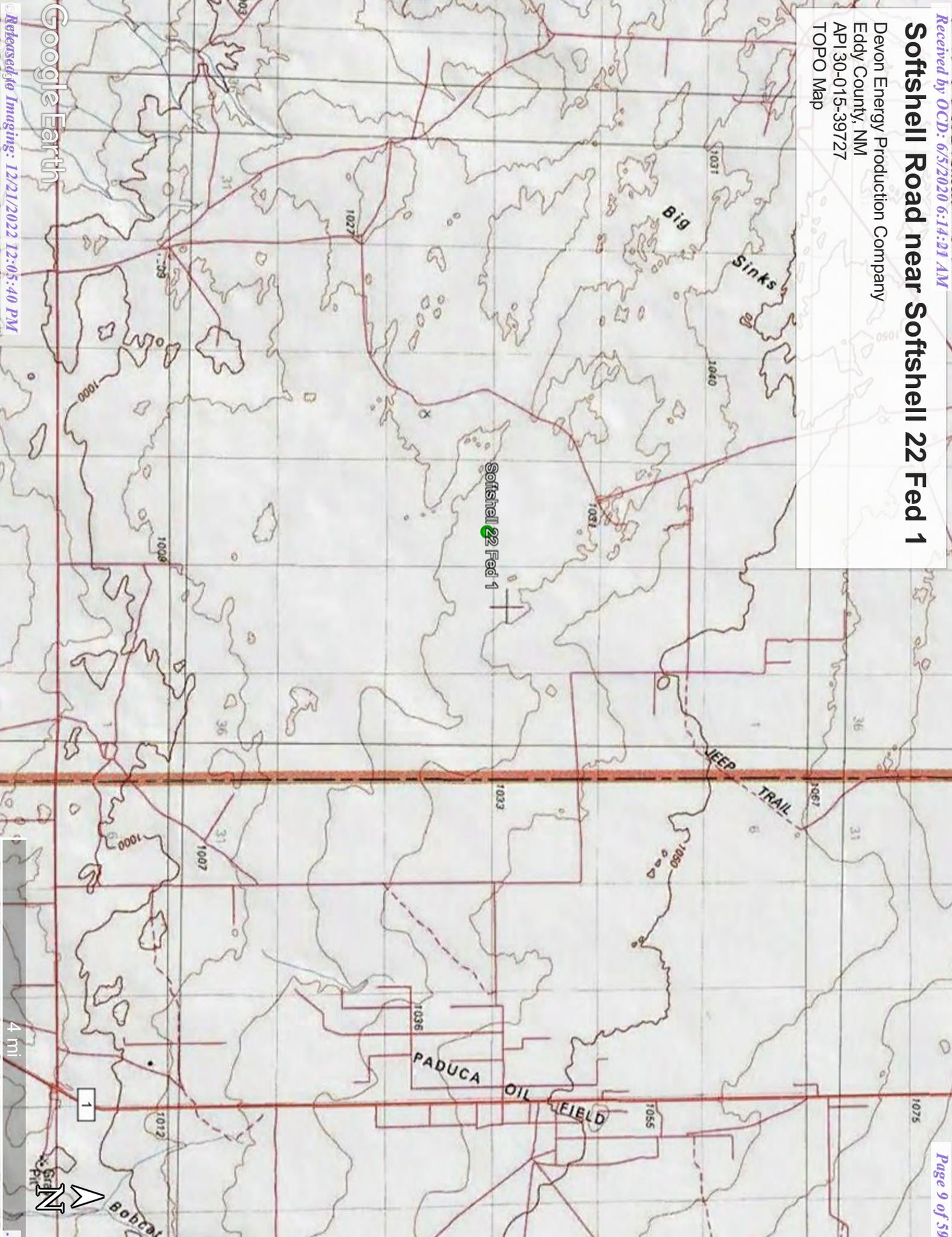
Devon Energy Production Company
Eddy County, NM
API 30-015-39727
Karst Map



Google Earth

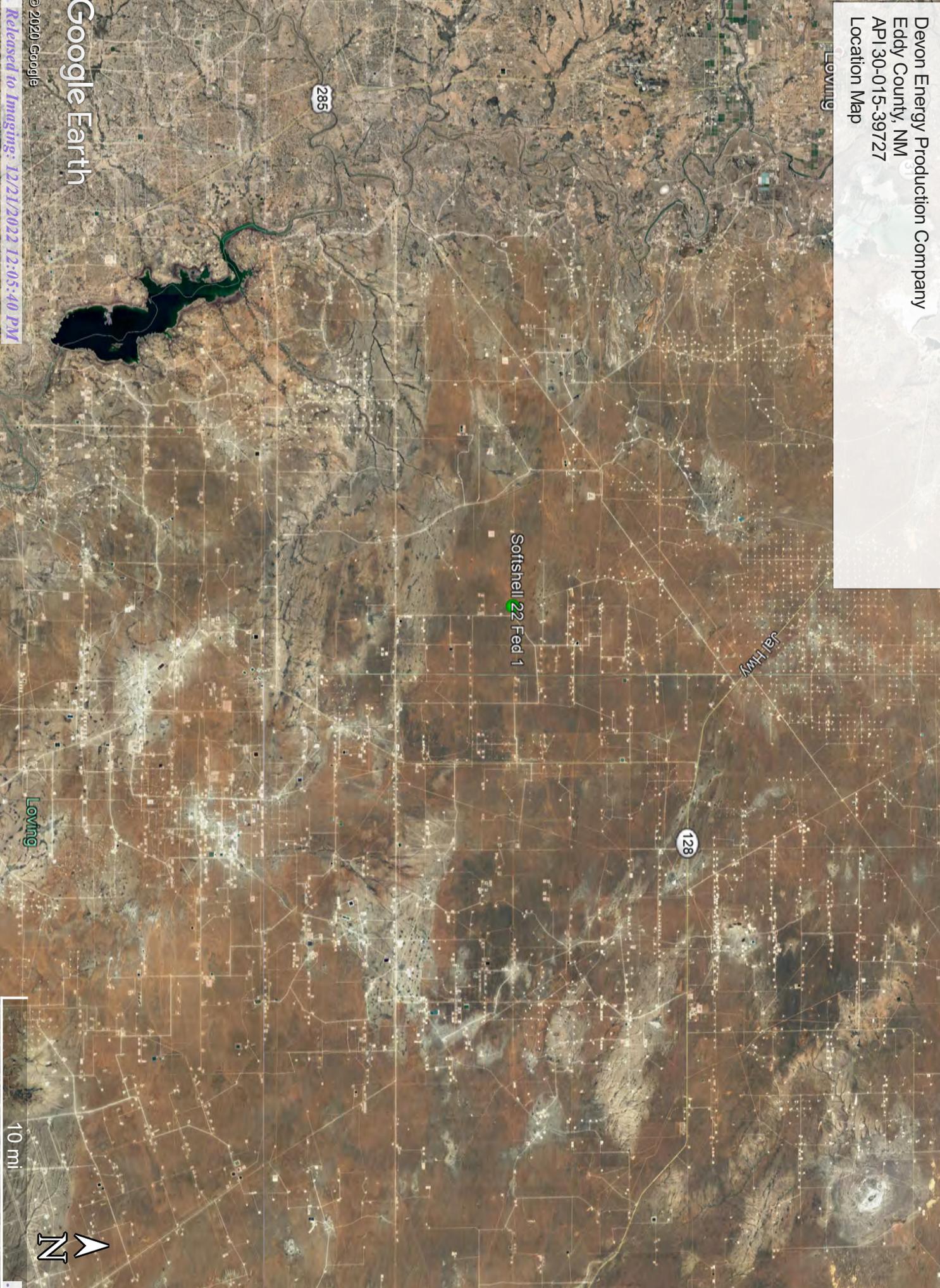
Softshell Road near Softshell 22 Fed 1

Devon Energy Production Company
Eddy County, NM
API 30-015-39727
TOPO Map



Softshell Road near Softshell 22 Fed 1

Devon Energy Production Company
Eddy County, NM
API 30-015-39727
Location Map



Google Earth



10 mi



APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE



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

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

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

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

(NAD83 UTM in meters) (In feet)

POD Number	POD Code	Sub-basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	WaterColumn
C 02250	CUB	ED	3	1	4	21	25S	31E	614912	3553620*	2079	400	390	10	

Average Depth to Water: **390 feet**
 Minimum Depth: **390 feet**
 Maximum Depth: **390 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 616719 **Northing (Y):** 3554649.478 **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.

3/27/20 1:31 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



National Water Information System: Mapper

Sites Map

Search

Groundwater Sites

Active Sites

- Any data
- Instantaneous data
- Daily data
- Water-quality data
- Measurements
- Annual Report

Inactive Sites

- Any data
- Instantaneous data
- Daily data
- Water-quality data
- Measurements
- Annual Report

Springs

Atmospheric Sites

Site Information

Site Number: 320

Site Name: 25S.3:

Site Type: Well

Agency: USGS

[Access Data](#)



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:

Click to hide News Bulletins

- **Notice** - The USGS Water Resources Mission Area's priority is to maintain the safety and well-being of our communities, including providing critical situational awareness in times of flooding in all 50 U.S. states and additional territories. Our hydrologic monitoring stations continue to send data in near real-time to NWISWeb, and we are continuing critical water monitoring activities to protect life and property on a case-by-case basis. The health and safety of the public and our employees are our highest priorities, and we continue to follow guidance from the White House, the CDC, and state and local authorities.
- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#) 

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 320643103465002

Minimum number of levels = 1

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

USGS 320643103465002 25S.31E.21.413314A

Available data for this site

Eddy County, New Mexico

Hydrologic Unit Code 13070001

Latitude 32°06'46.0", Longitude 103°46'56.3" NAD83

Land-surface elevation 3,374.00 feet above NGVD29

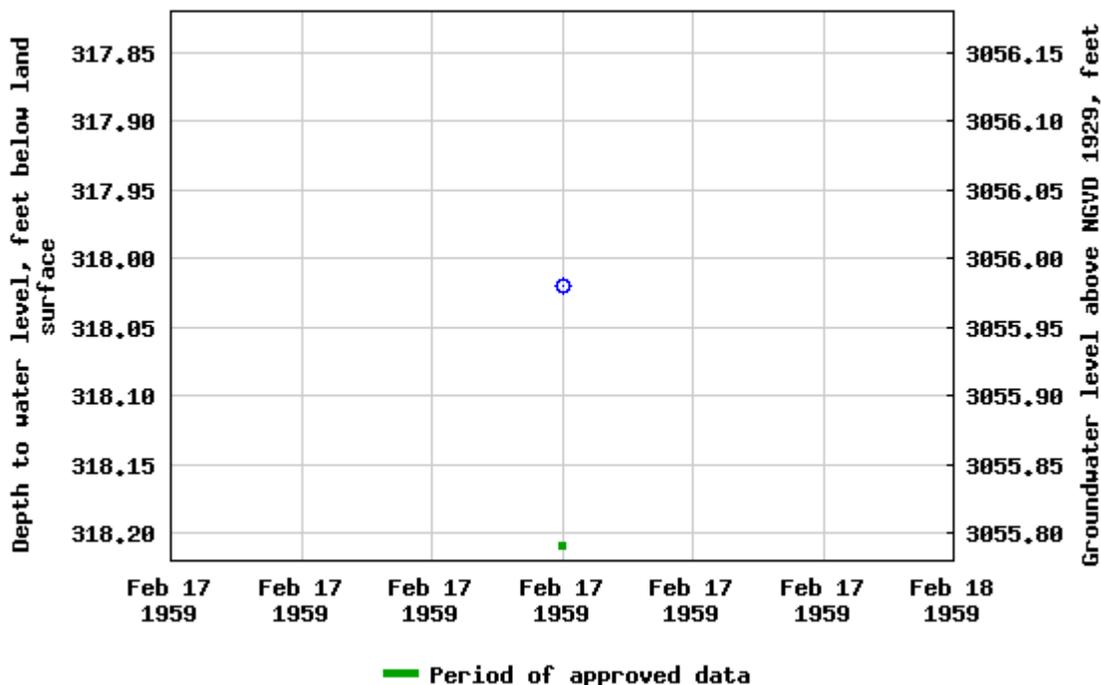
The depth of the well is 400 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

USGS 320643103465002 25S.31E.21.413314A



Breaks in the plot represent a gap of at least one year between field measurements. [Download a presentation-quality graph](#)

- [Questions about sites/data?](#)
- [Feedback on this web site](#)
- [Automated retrievals](#)
- [Help](#)
- [Data Tips](#)
- [Explanation of terms](#)
- [Subscribe for system changes](#)
- [News](#)

Accessibility Plug-Ins FOIA Privacy Policies and Notices

[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: 2020-05-18 15:22:50 EDT

0.52 0.46 nadww02

Map Unit Description: Berino complex, 0 to 3 percent slopes, eroded—Eddy Area, New Mexico

Eddy Area, New Mexico

BB—Berino complex, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w43

Elevation: 2,000 to 5,700 feet

Mean annual precipitation: 5 to 15 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 260 days

Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 60 percent

Pajarito and similar soils: 25 percent

Minor components: 15 percent

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

Description of Berino

Setting

Landform: Fan piedmonts, plains

Landform position (three-dimensional): Riser

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand

H2 - 17 to 58 inches: sandy clay loam

H3 - 58 to 60 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat):

Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum in profile: 40 percent

Salinity, maximum in profile: Very slightly saline to slightly saline
(2.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 1.0

Available water storage in profile: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Map Unit Description: Berino complex, 0 to 3 percent slopes, eroded—Eddy Area, New Mexico

Hydrologic Soil Group: B
Ecological site: Loamy Sand (R042XC003NM)
Hydric soil rating: No

Description of Pajarito

Setting

Landform: Interdunes, plains, dunes
Landform position (three-dimensional): Side slope
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 9 inches: loamy fine sand
H2 - 9 to 72 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural 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 in profile: 40 percent
Salinity, maximum in profile: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: Loamy Sand (R042XC003NM)
Hydric soil rating: No

Minor Components

Cacique

Percent of map unit: 4 percent
Ecological site: Sandy (R042XC004NM)
Hydric soil rating: No

Wink

Percent of map unit: 4 percent
Ecological site: Loamy Sand (R042XC003NM)
Hydric soil rating: No

Pajarito

Percent of map unit: 4 percent
Ecological site: Loamy Sand (R042XC003NM)
Hydric soil rating: No

Map Unit Description: Berino complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

Kermit

Percent of map unit: 3 percent

Ecological site: Deep Sand (R042XC005NM)

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 15, Sep 15, 2019

National Flood Hazard Layer FIRMette



27°35.13'N



USGS The National Map: Orthoimagery. Data refreshed April 2019.

32°74.66'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, AE9 With BFE or Depth Zone AE, AO, AH, VE, AR Regulatory Floodway
-----------------------------------	--

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 OF FLOOD HAZARD
NO SCREEN Area of Minimal Flood Hazard Zone X
Effective LOMRS

OTHER AREAS
Area of Undetermined Flood Hazard Zone I

GENERAL STRUCTURES
Channel, Culvert, or Storm Sewer
Levee, Dike, or Floodwall

OTHER FEATURES
20.2 17.5 Water Surface Elevation
Coastal Transsect
Base Flood Elevation Line (BFE)
Limit of Study
Jurisdiction Boundary
Coastal Transsect Baseline
Profile Baseline
Hydrographic Feature

MAP PANELS
Digital Data Available
No Digital Data Available
Unmapped

The pin displayed on the map is an approximate location 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 3/27/2020 at 3:36:25 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 unmoderized areas cannot be used for regulatory purposes.



APPENDIX III

INITIAL C-141

&

FINAL C-141

NM OIL CONSERVATION

ARTESIA DISTRICT

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

APR 02 2015

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

NA31509249050

OPERATOR

Initial Report Final Report

Name of Company Devon Energy Production Company <i>10137</i>	Contact Dan Suniga; Production Foreman
Address 6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No. 575-390-5850
Facility Name Softshell Road; Lease Road near Softshell 22 Federal 1	Facility Type: Lease Road

Surface Owner Federal	Mineral Owner Federal	API No 30-015-39727
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	14	25S	31E	102	South	388	East	Eddy

Latitude: 32.1221919 N Longitude: 103.7627012 W

NATURE OF RELEASE

Type of Release drilling fluid and cement dump	Volume of Release 30BBLS	Volume Recovered 20BBLS
Source of Release Anonymous illegal dump	Date and Hour of Occurrence March 30, 2015 - unknown	Date and Hour of Discovery March 30, 2015 1:00PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	IF YES, To Whom? Mike Bratcher; OCD & Jeff Robertson; BLM	
By Whom? Jimmy Tarvin; Lease Operator	Date and Hour March 31, 2015 8:30 AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	IF YES, Volume Impacting the Watercourse N/A	

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

Describe Cause of Problem and Remedial Action Taken.*
A mix of cement and drilling fluid; approximately 30BBLS total was found dumped anonymously in three separate locations near the Lease Road; unofficially referred to as "Softshell Road". 20BBLS of the released fluid was recovered by vacuum truck.

Describe Area Affected and Cleanup Action Taken.*
A mix of approximately 30BBLS of drilling fluid and cement was dumped in three separate locations in the pasture near the Lease Road that runs from the Cotton Draw Wells to the Snapping Wells closest to the Softshell 22 Federal 1 Location. Each dump affected an area approximately 20'x20'. The first dump; approximately 20BBLS is located in NE/SW, S14, T25S, R31E on the west side of the lease road. The second dump and third dumps; approximately 5 BBLS each are located in NW/SW, S35, T35S, R31E on the east and west side of the Lease Road across from each other. 20 BBLS was recovered from the first dump site, a small amount of small cement fragments remain at this site. No fluid was recovered from the second and third dump site as it had all soaked into the ground. The latitude and longitude above is for the Softshell 22 Federal 1 Location.

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: <i>Sandy Farley</i>	OIL CONSERVATION DIVISION	
Printed Name: Sandra Farley	Signed By <i>Mike Bratcher</i>	
Title: Field Admin Support	Approved by Environmental Specialist:	
E-mail Address: sandy.farley@dm.com	Approval Date: <i>4/2/15</i>	Expiration Date: <i>N/A</i>
Date: April 1, 2015 Phone: 575.746.5587	Conditions of Approval:	

Remediation per O.C.D. Rules & Guidelines
SUBMIT REMEDIATION PROPOSAL NO
LATER THAN: *5/2/15* **2RP-2931**

* Attach Additional Sheets If Necessary

Incident ID	NAB1509249056
District RP	2RP-2931
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?	_____ 390 (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 1/2-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.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NAB1509249056
District RP	2RP-2931
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: Chris Jones

Title: Project Manager

Signature: *Chris Jones*

Date: 5-7-20

email: cjones@talonlpe.com

Telephone: 575-748-8768

OCD Only

Received by: _____

Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NAB1509249056
District RP	2RP-2931
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Chris Jones

Title: Project Manager

Signature: *Chris Jones*

Date: 5-7-20

email: cjones@talonlpe.com

Telephone: 575-748-8768

OCD Only

Received by: OCD

Date: 6/5/2020

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: *Ashley Maxwell* Date: 12/21/2022

Printed Name: Ashley Maxwell

Title: Environmental Specialist



APPENDIX IV

LABORATORY DATA



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

April 22, 2020

Chris Jones
Talon Artesia
408 West Texas Ave
Artesia, NM 88210
TEL:
FAX:

RE: Soft Shell 22 Fed 1

OrderNo.: 2004759

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 9 sample(s) on 4/16/2020 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 **2004759**

Date Reported: **4/22/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: RC-1 0-1'

Project: Soft Shell 22 Fed 1

Collection Date: 4/6/2020

Lab ID: 2004759-001

Matrix: SOIL

Received Date: 4/16/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	59		mg/Kg	20	4/18/2020 11:16:55 AM	51925
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/17/2020 4:40:07 PM	51864
Surr: BFB	103	70-130		%Rec	1	4/17/2020 4:40:07 PM	51864
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	4/18/2020 3:16:14 AM	51867
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	4/18/2020 3:16:14 AM	51867
Surr: DNOP	80.1	55.1-146		%Rec	1	4/18/2020 3:16:14 AM	51867
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	4/17/2020 4:40:07 PM	51864
Toluene	ND	0.049		mg/Kg	1	4/17/2020 4:40:07 PM	51864
Ethylbenzene	ND	0.049		mg/Kg	1	4/17/2020 4:40:07 PM	51864
Xylenes, Total	ND	0.098		mg/Kg	1	4/17/2020 4:40:07 PM	51864
Surr: 1,2-Dichloroethane-d4	92.3	70-130		%Rec	1	4/17/2020 4:40:07 PM	51864
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	4/17/2020 4:40:07 PM	51864
Surr: Dibromofluoromethane	103	70-130		%Rec	1	4/17/2020 4:40:07 PM	51864
Surr: Toluene-d8	97.9	70-130		%Rec	1	4/17/2020 4:40:07 PM	51864

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	

Analytical Report

Lab Order **2004759**

Date Reported: **4/22/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: RC-2 0-1'

Project: Soft Shell 22 Fed 1

Collection Date: 4/6/2020

Lab ID: 2004759-002

Matrix: SOIL

Received Date: 4/16/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/18/2020 11:54:09 AM	51925
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/17/2020 6:06:00 PM	51864
Surr: BFB	99.9	70-130		%Rec	1	4/17/2020 6:06:00 PM	51864
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/18/2020 3:40:20 AM	51867
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/18/2020 3:40:20 AM	51867
Surr: DNOP	75.1	55.1-146		%Rec	1	4/18/2020 3:40:20 AM	51867
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	4/17/2020 6:06:00 PM	51864
Toluene	ND	0.050		mg/Kg	1	4/17/2020 6:06:00 PM	51864
Ethylbenzene	ND	0.050		mg/Kg	1	4/17/2020 6:06:00 PM	51864
Xylenes, Total	ND	0.099		mg/Kg	1	4/17/2020 6:06:00 PM	51864
Surr: 1,2-Dichloroethane-d4	95.7	70-130		%Rec	1	4/17/2020 6:06:00 PM	51864
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	4/17/2020 6:06:00 PM	51864
Surr: Dibromofluoromethane	104	70-130		%Rec	1	4/17/2020 6:06:00 PM	51864
Surr: Toluene-d8	94.1	70-130		%Rec	1	4/17/2020 6:06:00 PM	51864

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	

Analytical Report

Lab Order **2004759**

Date Reported: **4/22/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: RC-3 0-1'

Project: Soft Shell 22 Fed 1

Collection Date: 4/6/2020

Lab ID: 2004759-003

Matrix: SOIL

Received Date: 4/16/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	96	60		mg/Kg	20	4/18/2020 12:06:33 PM	51925
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/17/2020 7:31:31 PM	51864
Surr: BFB	99.9	70-130		%Rec	1	4/17/2020 7:31:31 PM	51864
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/18/2020 4:04:11 AM	51867
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/18/2020 4:04:11 AM	51867
Surr: DNOP	82.8	55.1-146		%Rec	1	4/18/2020 4:04:11 AM	51867
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	4/17/2020 7:31:31 PM	51864
Toluene	ND	0.048		mg/Kg	1	4/17/2020 7:31:31 PM	51864
Ethylbenzene	ND	0.048		mg/Kg	1	4/17/2020 7:31:31 PM	51864
Xylenes, Total	ND	0.096		mg/Kg	1	4/17/2020 7:31:31 PM	51864
Surr: 1,2-Dichloroethane-d4	94.0	70-130		%Rec	1	4/17/2020 7:31:31 PM	51864
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	4/17/2020 7:31:31 PM	51864
Surr: Dibromofluoromethane	105	70-130		%Rec	1	4/17/2020 7:31:31 PM	51864
Surr: Toluene-d8	94.6	70-130		%Rec	1	4/17/2020 7:31:31 PM	51864

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		

Analytical Report

Lab Order **2004759**

Date Reported: **4/22/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: RC-4 0-1'

Project: Soft Shell 22 Fed 1

Collection Date: 4/6/2020

Lab ID: 2004759-004

Matrix: SOIL

Received Date: 4/16/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/18/2020 12:18:58 PM	51925
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/17/2020 8:00:10 PM	51864
Surr: BFB	99.1	70-130		%Rec	1	4/17/2020 8:00:10 PM	51864
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	4/18/2020 4:28:09 AM	51867
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/18/2020 4:28:09 AM	51867
Surr: DNOP	84.0	55.1-146		%Rec	1	4/18/2020 4:28:09 AM	51867
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.023		mg/Kg	1	4/17/2020 8:00:10 PM	51864
Toluene	ND	0.046		mg/Kg	1	4/17/2020 8:00:10 PM	51864
Ethylbenzene	ND	0.046		mg/Kg	1	4/17/2020 8:00:10 PM	51864
Xylenes, Total	ND	0.091		mg/Kg	1	4/17/2020 8:00:10 PM	51864
Surr: 1,2-Dichloroethane-d4	93.5	70-130		%Rec	1	4/17/2020 8:00:10 PM	51864
Surr: 4-Bromofluorobenzene	94.9	70-130		%Rec	1	4/17/2020 8:00:10 PM	51864
Surr: Dibromofluoromethane	104	70-130		%Rec	1	4/17/2020 8:00:10 PM	51864
Surr: Toluene-d8	94.7	70-130		%Rec	1	4/17/2020 8:00:10 PM	51864

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	

Analytical Report

Lab Order **2004759**

Date Reported: **4/22/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: RC-5 0-1'

Project: Soft Shell 22 Fed 1

Collection Date: 4/6/2020

Lab ID: 2004759-005

Matrix: SOIL

Received Date: 4/16/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/18/2020 12:31:23 PM	51925
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/17/2020 8:28:38 PM	51864
Surr: BFB	98.5	70-130		%Rec	1	4/17/2020 8:28:38 PM	51864
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/18/2020 4:51:54 AM	51867
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/18/2020 4:51:54 AM	51867
Surr: DNOP	76.5	55.1-146		%Rec	1	4/18/2020 4:51:54 AM	51867
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	4/17/2020 8:28:38 PM	51864
Toluene	ND	0.048		mg/Kg	1	4/17/2020 8:28:38 PM	51864
Ethylbenzene	ND	0.048		mg/Kg	1	4/17/2020 8:28:38 PM	51864
Xylenes, Total	ND	0.095		mg/Kg	1	4/17/2020 8:28:38 PM	51864
Surr: 1,2-Dichloroethane-d4	92.7	70-130		%Rec	1	4/17/2020 8:28:38 PM	51864
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	4/17/2020 8:28:38 PM	51864
Surr: Dibromofluoromethane	104	70-130		%Rec	1	4/17/2020 8:28:38 PM	51864
Surr: Toluene-d8	95.1	70-130		%Rec	1	4/17/2020 8:28:38 PM	51864

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		

Analytical Report

Lab Order **2004759**

Date Reported: **4/22/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: RC-6 0-1'

Project: Soft Shell 22 Fed 1

Collection Date: 4/6/2020

Lab ID: 2004759-006

Matrix: SOIL

Received Date: 4/16/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/18/2020 12:43:48 PM	51925
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/17/2020 8:57:02 PM	51864
Surr: BFB	97.4	70-130		%Rec	1	4/17/2020 8:57:02 PM	51864
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/18/2020 5:15:50 AM	51867
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/18/2020 5:15:50 AM	51867
Surr: DNOP	79.6	55.1-146		%Rec	1	4/18/2020 5:15:50 AM	51867
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	4/17/2020 8:57:02 PM	51864
Toluene	ND	0.050		mg/Kg	1	4/17/2020 8:57:02 PM	51864
Ethylbenzene	ND	0.050		mg/Kg	1	4/17/2020 8:57:02 PM	51864
Xylenes, Total	ND	0.10		mg/Kg	1	4/17/2020 8:57:02 PM	51864
Surr: 1,2-Dichloroethane-d4	95.7	70-130		%Rec	1	4/17/2020 8:57:02 PM	51864
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	4/17/2020 8:57:02 PM	51864
Surr: Dibromofluoromethane	105	70-130		%Rec	1	4/17/2020 8:57:02 PM	51864
Surr: Toluene-d8	95.3	70-130		%Rec	1	4/17/2020 8:57:02 PM	51864

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	

Analytical Report

Lab Order **2004759**

Date Reported: **4/22/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: RC-7 0-1'

Project: Soft Shell 22 Fed 1

Collection Date: 4/6/2020

Lab ID: 2004759-007

Matrix: SOIL

Received Date: 4/16/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/18/2020 1:21:01 PM	51925
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/17/2020 9:25:48 PM	51864
Surr: BFB	102	70-130		%Rec	1	4/17/2020 9:25:48 PM	51864
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	4/18/2020 5:39:44 AM	51867
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/18/2020 5:39:44 AM	51867
Surr: DNOP	74.7	55.1-146		%Rec	1	4/18/2020 5:39:44 AM	51867
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	4/17/2020 9:25:48 PM	51864
Toluene	ND	0.050		mg/Kg	1	4/17/2020 9:25:48 PM	51864
Ethylbenzene	ND	0.050		mg/Kg	1	4/17/2020 9:25:48 PM	51864
Xylenes, Total	ND	0.10		mg/Kg	1	4/17/2020 9:25:48 PM	51864
Surr: 1,2-Dichloroethane-d4	90.5	70-130		%Rec	1	4/17/2020 9:25:48 PM	51864
Surr: 4-Bromofluorobenzene	94.9	70-130		%Rec	1	4/17/2020 9:25:48 PM	51864
Surr: Dibromofluoromethane	105	70-130		%Rec	1	4/17/2020 9:25:48 PM	51864
Surr: Toluene-d8	97.5	70-130		%Rec	1	4/17/2020 9:25:48 PM	51864

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	

Analytical Report

Lab Order **2004759**

Date Reported: **4/22/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: RC-8 0-1'

Project: Soft Shell 22 Fed 1

Collection Date: 4/6/2020

Lab ID: 2004759-008

Matrix: SOIL

Received Date: 4/16/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/18/2020 1:33:26 PM	51925
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/17/2020 9:54:25 PM	51864
Surr: BFB	102	70-130		%Rec	1	4/17/2020 9:54:25 PM	51864
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/18/2020 6:04:11 AM	51867
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/18/2020 6:04:11 AM	51867
Surr: DNOP	73.8	55.1-146		%Rec	1	4/18/2020 6:04:11 AM	51867
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	4/17/2020 9:54:25 PM	51864
Toluene	ND	0.049		mg/Kg	1	4/17/2020 9:54:25 PM	51864
Ethylbenzene	ND	0.049		mg/Kg	1	4/17/2020 9:54:25 PM	51864
Xylenes, Total	ND	0.098		mg/Kg	1	4/17/2020 9:54:25 PM	51864
Surr: 1,2-Dichloroethane-d4	91.4	70-130		%Rec	1	4/17/2020 9:54:25 PM	51864
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	4/17/2020 9:54:25 PM	51864
Surr: Dibromofluoromethane	103	70-130		%Rec	1	4/17/2020 9:54:25 PM	51864
Surr: Toluene-d8	97.8	70-130		%Rec	1	4/17/2020 9:54:25 PM	51864

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	

Analytical Report

Lab Order 2004759

Date Reported: 4/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: RC-9 0-1'

Project: Soft Shell 22 Fed 1

Collection Date: 4/6/2020

Lab ID: 2004759-009

Matrix: SOIL

Received Date: 4/16/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	73	59		mg/Kg	20	4/18/2020 1:45:51 PM	51925
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/17/2020 10:23:06 PM	51864
Surr: BFB	99.8	70-130		%Rec	1	4/17/2020 10:23:06 PM	51864
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/18/2020 6:28:32 AM	51867
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/18/2020 6:28:32 AM	51867
Surr: DNOP	77.9	55.1-146		%Rec	1	4/18/2020 6:28:32 AM	51867
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.023		mg/Kg	1	4/17/2020 10:23:06 PM	51864
Toluene	ND	0.046		mg/Kg	1	4/17/2020 10:23:06 PM	51864
Ethylbenzene	ND	0.046		mg/Kg	1	4/17/2020 10:23:06 PM	51864
Xylenes, Total	ND	0.092		mg/Kg	1	4/17/2020 10:23:06 PM	51864
Surr: 1,2-Dichloroethane-d4	90.7	70-130		%Rec	1	4/17/2020 10:23:06 PM	51864
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	4/17/2020 10:23:06 PM	51864
Surr: Dibromofluoromethane	99.6	70-130		%Rec	1	4/17/2020 10:23:06 PM	51864
Surr: Toluene-d8	94.3	70-130		%Rec	1	4/17/2020 10:23:06 PM	51864

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	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2004759

22-Apr-20

Client: Talon Artesia
Project: Soft Shell 22 Fed 1

Sample ID: MB-51925	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 51925	RunNo: 68250								
Prep Date: 4/18/2020	Analysis Date: 4/18/2020	SeqNo: 2360625	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-51925	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 51925	RunNo: 68250								
Prep Date: 4/18/2020	Analysis Date: 4/18/2020	SeqNo: 2360626	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.8	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- 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#: 2004759

22-Apr-20

Client: Talon Artesia
Project: Soft Shell 22 Fed 1

Sample ID: LCS-51867	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 51867	RunNo: 68199								
Prep Date: 4/16/2020	Analysis Date: 4/17/2020	SeqNo: 2358712	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.2	70	130			
Surr: DNOP	4.4		5.000		88.5	55.1	146			

Sample ID: MB-51867	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 51867	RunNo: 68199								
Prep Date: 4/16/2020	Analysis Date: 4/17/2020	SeqNo: 2358714	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	8.5		10.00		85.4	55.1	146			

Sample ID: LCS-51865	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 51865	RunNo: 68199								
Prep Date: 4/16/2020	Analysis Date: 4/18/2020	SeqNo: 2358994	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.8		5.000		75.0	55.1	146			

Sample ID: MB-51865	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 51865	RunNo: 68199								
Prep Date: 4/16/2020	Analysis Date: 4/18/2020	SeqNo: 2358997	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.2		10.00		81.9	55.1	146			

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#: 2004759

22-Apr-20

Client: Talon Artesia
Project: Soft Shell 22 Fed 1

Sample ID: mb-51864	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 51864	RunNo: 68219								
Prep Date: 4/16/2020	Analysis Date: 4/17/2020	SeqNo: 2359219	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	0.49		0.5000		98.1	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.0	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130			
Surr: Toluene-d8	0.47		0.5000		93.6	70	130			

Sample ID: ics-51864	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 51864	RunNo: 68219								
Prep Date: 4/16/2020	Analysis Date: 4/17/2020	SeqNo: 2359220	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	86.3	80	120			
Toluene	0.97	0.050	1.000	0	97.4	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.4	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.8	80	120			
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		92.8	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		103	70	130			
Surr: Toluene-d8	0.48		0.5000		96.3	70	130			

Sample ID: 2004759-001ams	SampType: MS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: RC-1 0-1'	Batch ID: 51864	RunNo: 68219								
Prep Date: 4/16/2020	Analysis Date: 4/17/2020	SeqNo: 2359222	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	0.9980	0	88.9	80	120			
Toluene	1.0	0.050	0.9980	0	104	80	120			
Ethylbenzene	1.1	0.050	0.9980	0	106	80	120			
Xylenes, Total	3.2	0.10	2.994	0	106	80	120			
Surr: 1,2-Dichloroethane-d4	0.47		0.4990		93.5	70	130			
Surr: Dibromofluoromethane	0.52		0.4990		104	70	130			
Surr: Toluene-d8	0.48		0.4990		96.4	70	130			

Sample ID: 2004759-001amsd	SampType: MSD4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: RC-1 0-1'	Batch ID: 51864	RunNo: 68219								
Prep Date: 4/16/2020	Analysis Date: 4/17/2020	SeqNo: 2359223	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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#: 2004759

22-Apr-20

Client: Talon Artesia
Project: Soft Shell 22 Fed 1

Sample ID: 2004759-001amsd	SampType: MSD4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: RC-1 0-1'	Batch ID: 51864	RunNo: 68219								
Prep Date: 4/16/2020	Analysis Date: 4/17/2020	SeqNo: 2359223 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.024	0.9737	0	90.6	80	120	0.588	20	
Toluene	1.0	0.049	0.9737	0	103	80	120	3.64	20	
Ethylbenzene	1.0	0.049	0.9737	0	105	80	120	2.56	20	
Xylenes, Total	3.1	0.097	2.921	0	106	80	120	2.44	20	
Surr: 1,2-Dichloroethane-d4	0.46		0.4869		93.6	70	130	0	0	
Surr: Dibromofluoromethane	0.52		0		0	0.5	70	0	130	
Surr: Toluene-d8	0.47		0.4869		95.6	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2004759

22-Apr-20

Client: Talon Artesia
Project: Soft Shell 22 Fed 1

Sample ID: mb-51864	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 51864	RunNo: 68219								
Prep Date: 4/16/2020	Analysis Date: 4/17/2020	SeqNo: 2359245	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		99.2	70	130			

Sample ID: lcs-51864	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 51864	RunNo: 68219								
Prep Date: 4/16/2020	Analysis Date: 4/17/2020	SeqNo: 2359247	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	81.9	70	130			
Surr: BFB	490		500.0		98.6	70	130			

Sample ID: 2004759-002ams	SampType: MS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: RC-2 0-1'	Batch ID: 51864	RunNo: 68219								
Prep Date: 4/16/2020	Analysis Date: 4/17/2020	SeqNo: 2359250	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.9	24.49	0	85.4	70	130			
Surr: BFB	480		489.7		97.4	70	130			

Sample ID: 2004759-002amsd	SampType: MSD	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: RC-2 0-1'	Batch ID: 51864	RunNo: 68219								
Prep Date: 4/16/2020	Analysis Date: 4/17/2020	SeqNo: 2359251	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.61	0	89.4	70	130	5.07	20	
Surr: BFB	490		492.1		99.1	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



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

Sample Log-In Check List

Client Name: TALON ARTESIA Work Order Number: 2004759 RcptNo: 1

Received By: Juan Rojas 4/16/2020 9:15:00 AM [Signature]

Completed By: Isaiah Ortiz 4/16/2020 10:02:33 AM [Signature]

Reviewed By: DAD 4/16/20

Chain of Custody

- 1. Is Chain of Custody sufficiently complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: SPA 4/16/20

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Contains 2 rows of data.

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) _____

Date	Time	Matrix	Sample Name
4/16/20	9m		RC-1 0-1'
			RC-2 0-1'
			RC-3 0-1'
			RC-4 0-1'
			RC-5 0-1'
			RC-6 0-1'
			RC-7 0-1'
			RC-8 0-1'
			RC-9 0-1'

Date: 4/16/20 Time: 1400 Relinquished by: *[Signature]*
 Date: 4/15/20 Time: 1900 Relinquished by: *[Signature]*

Turn-Around Time: *4 days*
 Standard Rush
 Project Name: *Softshell 22 Fuel 1*
 Project #: *700794.340.01*

Project Manager: *Chris Stowers*
 Sampler: *Bill Stowers*
 On Ice: Yes No
 # of Coolers: *2*

Cooler Temp (including OFI): *0.9+0.2 = 1.1*
 Container Type and # *Star* Preservative Type *ICE*
 HEAL No. *2004759*
0.8 to 2 > 1.0
100
002
003
004
005
006
007
008
009

Received by: *[Signature]* Date: *4/15/20* Time: *1545*
 Received by: *[Signature]* Date: *4/16/20* Time: *9:15*



HALL ENVIRONMENTAL ANALYSIS LABORATORY
 www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request	
(PH: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)	

Remarks: Please cc the following via email:
 Dadkins@talonpe.com
 Rpons@talonpe.com
ctowers@talonpe.com

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



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

May 07, 2020

Chris Jones
Talon Artesia
408 West Texas Ave
Artesia, NM 88210
TEL:
FAX

RE: Softshell 22 Fed 1

OrderNo.: 2005003

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 9 sample(s) on 5/1/2020 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 white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2005003**

Date Reported: **5/7/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: RC-10

Project: Softshell 22 Fed 1

Collection Date: 4/29/2020 9:00:00 AM

Lab ID: 2005003-001

Matrix: SOIL

Received Date: 5/1/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	78	60		mg/Kg	20	5/4/2020 4:42:11 PM	52251
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/4/2020 4:00:28 PM	52227
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/4/2020 4:00:28 PM	52227
Surr: DNOP	105	55.1-146		%Rec	1	5/4/2020 4:00:28 PM	52227
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/2/2020 5:25:23 PM	52224
Surr: BFB	103	66.6-105		%Rec	1	5/2/2020 5:25:23 PM	52224
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/2/2020 5:25:23 PM	52224
Toluene	ND	0.050		mg/Kg	1	5/2/2020 5:25:23 PM	52224
Ethylbenzene	ND	0.050		mg/Kg	1	5/2/2020 5:25:23 PM	52224
Xylenes, Total	ND	0.099		mg/Kg	1	5/2/2020 5:25:23 PM	52224
Surr: 4-Bromofluorobenzene	98.3	80-120		%Rec	1	5/2/2020 5:25:23 PM	52224

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		

Analytical Report

Lab Order **2005003**

Date Reported: **5/7/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: RC-11

Project: Softshell 22 Fed 1

Collection Date: 4/29/2020 9:20:00 AM

Lab ID: 2005003-002

Matrix: SOIL

Received Date: 5/1/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	150	60		mg/Kg	20	5/4/2020 4:54:32 PM	52251
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/4/2020 5:13:09 PM	52227
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/4/2020 5:13:09 PM	52227
Surr: DNOP	101	55.1-146		%Rec	1	5/4/2020 5:13:09 PM	52227
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/2/2020 6:36:00 PM	52224
Surr: BFB	104	66.6-105		%Rec	1	5/2/2020 6:36:00 PM	52224
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/2/2020 6:36:00 PM	52224
Toluene	ND	0.049		mg/Kg	1	5/2/2020 6:36:00 PM	52224
Ethylbenzene	ND	0.049		mg/Kg	1	5/2/2020 6:36:00 PM	52224
Xylenes, Total	ND	0.099		mg/Kg	1	5/2/2020 6:36:00 PM	52224
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	5/2/2020 6:36:00 PM	52224

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		

Analytical Report

Lab Order **2005003**

Date Reported: **5/7/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: RC-12

Project: Softshell 22 Fed 1

Collection Date: 4/29/2020 9:40:00 AM

Lab ID: 2005003-003

Matrix: SOIL

Received Date: 5/1/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	180	61		mg/Kg	20	5/4/2020 5:06:53 PM	52251
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/4/2020 5:37:39 PM	52227
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/4/2020 5:37:39 PM	52227
Surr: DNOP	99.2	55.1-146		%Rec	1	5/4/2020 5:37:39 PM	52227
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/2/2020 7:46:27 PM	52224
Surr: BFB	101	66.6-105		%Rec	1	5/2/2020 7:46:27 PM	52224
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/2/2020 7:46:27 PM	52224
Toluene	ND	0.049		mg/Kg	1	5/2/2020 7:46:27 PM	52224
Ethylbenzene	ND	0.049		mg/Kg	1	5/2/2020 7:46:27 PM	52224
Xylenes, Total	ND	0.098		mg/Kg	1	5/2/2020 7:46:27 PM	52224
Surr: 4-Bromofluorobenzene	97.7	80-120		%Rec	1	5/2/2020 7:46:27 PM	52224

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		

Analytical Report

Lab Order **2005003**

Date Reported: **5/7/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: RC-13

Project: Softshell 22 Fed 1

Collection Date: 4/29/2020 10:00:00 AM

Lab ID: 2005003-004

Matrix: SOIL

Received Date: 5/1/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	350	60		mg/Kg	20	5/4/2020 5:43:56 PM	52251
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	5/4/2020 6:02:19 PM	52227
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/4/2020 6:02:19 PM	52227
Surr: DNOP	97.6	55.1-146		%Rec	1	5/4/2020 6:02:19 PM	52227
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/2/2020 8:10:23 PM	52224
Surr: BFB	102	66.6-105		%Rec	1	5/2/2020 8:10:23 PM	52224
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/2/2020 8:10:23 PM	52224
Toluene	ND	0.050		mg/Kg	1	5/2/2020 8:10:23 PM	52224
Ethylbenzene	ND	0.050		mg/Kg	1	5/2/2020 8:10:23 PM	52224
Xylenes, Total	ND	0.099		mg/Kg	1	5/2/2020 8:10:23 PM	52224
Surr: 4-Bromofluorobenzene	99.0	80-120		%Rec	1	5/2/2020 8:10:23 PM	52224

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		

Analytical Report

Lab Order **2005003**

Date Reported: **5/7/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: RC-14

Project: Softshell 22 Fed 1

Collection Date: 4/29/2020 10:20:00 AM

Lab ID: 2005003-005

Matrix: SOIL

Received Date: 5/1/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	190	60		mg/Kg	20	5/4/2020 5:56:17 PM	52251
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	5/4/2020 6:27:04 PM	52227
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	5/4/2020 6:27:04 PM	52227
Surr: DNOP	84.9	55.1-146		%Rec	1	5/4/2020 6:27:04 PM	52227
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/2/2020 8:34:09 PM	52224
Surr: BFB	108	66.6-105	S	%Rec	1	5/2/2020 8:34:09 PM	52224
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/2/2020 8:34:09 PM	52224
Toluene	ND	0.050		mg/Kg	1	5/2/2020 8:34:09 PM	52224
Ethylbenzene	ND	0.050		mg/Kg	1	5/2/2020 8:34:09 PM	52224
Xylenes, Total	ND	0.10		mg/Kg	1	5/2/2020 8:34:09 PM	52224
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	5/2/2020 8:34:09 PM	52224

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		

Analytical Report

Lab Order **2005003**

Date Reported: **5/7/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: RC-15

Project: Softshell 22 Fed 1

Collection Date: 4/29/2020 10:40:00 AM

Lab ID: 2005003-006

Matrix: SOIL

Received Date: 5/1/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	5/4/2020 6:08:38 PM	52251
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/4/2020 6:51:43 PM	52227
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/4/2020 6:51:43 PM	52227
Surr: DNOP	88.4	55.1-146		%Rec	1	5/4/2020 6:51:43 PM	52227
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/2/2020 8:57:55 PM	52224
Surr: BFB	104	66.6-105		%Rec	1	5/2/2020 8:57:55 PM	52224
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/2/2020 8:57:55 PM	52224
Toluene	ND	0.049		mg/Kg	1	5/2/2020 8:57:55 PM	52224
Ethylbenzene	ND	0.049		mg/Kg	1	5/2/2020 8:57:55 PM	52224
Xylenes, Total	ND	0.098		mg/Kg	1	5/2/2020 8:57:55 PM	52224
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	5/2/2020 8:57:55 PM	52224

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		

Analytical Report

Lab Order **2005003**

Date Reported: **5/7/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: RC-16

Project: Softshell 22 Fed 1

Collection Date: 4/29/2020 11:00:00 AM

Lab ID: 2005003-007

Matrix: SOIL

Received Date: 5/1/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	490	60		mg/Kg	20	5/4/2020 6:21:00 PM	52251
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/4/2020 7:16:15 PM	52227
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/4/2020 7:16:15 PM	52227
Surr: DNOP	99.9	55.1-146		%Rec	1	5/4/2020 7:16:15 PM	52227
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/2/2020 9:21:30 PM	52224
Surr: BFB	104	66.6-105		%Rec	1	5/2/2020 9:21:30 PM	52224
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/2/2020 9:21:30 PM	52224
Toluene	ND	0.050		mg/Kg	1	5/2/2020 9:21:30 PM	52224
Ethylbenzene	ND	0.050		mg/Kg	1	5/2/2020 9:21:30 PM	52224
Xylenes, Total	ND	0.099		mg/Kg	1	5/2/2020 9:21:30 PM	52224
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	5/2/2020 9:21:30 PM	52224

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		

Analytical Report

Lab Order **2005003**

Date Reported: **5/7/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: RC-17

Project: Softshell 22 Fed 1

Collection Date: 4/29/2020 11:20:00 AM

Lab ID: 2005003-008

Matrix: SOIL

Received Date: 5/1/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	5/4/2020 6:33:21 PM	52251
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	5/4/2020 7:40:56 PM	52227
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/4/2020 7:40:56 PM	52227
Surr: DNOP	65.7	55.1-146		%Rec	1	5/4/2020 7:40:56 PM	52227
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/2/2020 9:45:07 PM	52224
Surr: BFB	104	66.6-105		%Rec	1	5/2/2020 9:45:07 PM	52224
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/2/2020 9:45:07 PM	52224
Toluene	ND	0.050		mg/Kg	1	5/2/2020 9:45:07 PM	52224
Ethylbenzene	ND	0.050		mg/Kg	1	5/2/2020 9:45:07 PM	52224
Xylenes, Total	ND	0.10		mg/Kg	1	5/2/2020 9:45:07 PM	52224
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	5/2/2020 9:45:07 PM	52224

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		

Analytical Report

Lab Order **2005003**

Date Reported: **5/7/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: RC-18

Project: Softshell 22 Fed 1

Collection Date: 4/29/2020 11:40:00 AM

Lab ID: 2005003-009

Matrix: SOIL

Received Date: 5/1/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	5/4/2020 6:45:42 PM	52251
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/4/2020 8:05:28 PM	52227
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/4/2020 8:05:28 PM	52227
Surr: DNOP	85.1	55.1-146		%Rec	1	5/4/2020 8:05:28 PM	52227
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/2/2020 11:20:53 PM	52224
Surr: BFB	108	66.6-105	S	%Rec	1	5/2/2020 11:20:53 PM	52224
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/2/2020 11:20:53 PM	52224
Toluene	ND	0.050		mg/Kg	1	5/2/2020 11:20:53 PM	52224
Ethylbenzene	ND	0.050		mg/Kg	1	5/2/2020 11:20:53 PM	52224
Xylenes, Total	ND	0.099		mg/Kg	1	5/2/2020 11:20:53 PM	52224
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	5/2/2020 11:20:53 PM	52224

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		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2005003

07-May-20

Client: Talon Artesia
Project: Softshell 22 Fed 1

Sample ID: MB-52251	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 52251	RunNo: 68635								
Prep Date: 5/4/2020	Analysis Date: 5/4/2020	SeqNo: 2375277	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-52251	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 52251	RunNo: 68635								
Prep Date: 5/4/2020	Analysis Date: 5/4/2020	SeqNo: 2375278	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2005003

07-May-20

Client: Talon Artesia
Project: Softshell 22 Fed 1

Sample ID: MB-52227	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 52227	RunNo: 68613								
Prep Date: 5/2/2020	Analysis Date: 5/4/2020	SeqNo: 2375149	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	10		10.00		105	55.1	146			

Sample ID: LCS-52227	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 52227	RunNo: 68613								
Prep Date: 5/2/2020	Analysis Date: 5/4/2020	SeqNo: 2375150	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.6	70	130			
Surr: DNOP	4.5		5.000		90.8	55.1	146			

Sample ID: 2005003-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: RC-10	Batch ID: 52227	RunNo: 68613								
Prep Date: 5/2/2020	Analysis Date: 5/4/2020	SeqNo: 2375186	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.0	44.80	0	103	47.4	136			
Surr: DNOP	4.4		4.480		97.8	55.1	146			

Sample ID: 2005003-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: RC-10	Batch ID: 52227	RunNo: 68613								
Prep Date: 5/2/2020	Analysis Date: 5/4/2020	SeqNo: 2375187	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.0	45.05	0	98.8	47.4	136	3.19	43.4	
Surr: DNOP	4.3		4.505		95.9	55.1	146	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2005003

07-May-20

Client: Talon Artesia
Project: Softshell 22 Fed 1

Sample ID: mb-52224	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 52224	RunNo: 68606								
Prep Date: 5/1/2020	Analysis Date: 5/2/2020	SeqNo: 2373757	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	1000		1000		102	66.6	105			

Sample ID: lcs-52224	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 52224	RunNo: 68606								
Prep Date: 5/1/2020	Analysis Date: 5/2/2020	SeqNo: 2373758	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	91.3	80	120			
Surr: BFB	1100		1000		111	66.6	105			S

Sample ID: 2005003-002ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: RC-11	Batch ID: 52224	RunNo: 68606								
Prep Date: 5/1/2020	Analysis Date: 5/2/2020	SeqNo: 2373761	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	24.78	0	82.4	80	120			
Surr: BFB	1100		991.1		111	66.6	105			S

Sample ID: 2005003-002amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: RC-11	Batch ID: 52224	RunNo: 68606								
Prep Date: 5/1/2020	Analysis Date: 5/2/2020	SeqNo: 2373762	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	24.78	0	80.5	80	120	2.36	20	
Surr: BFB	1100		991.1		115	66.6	105	0	0	S

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#: 2005003

07-May-20

Client: Talon Artesia
Project: Softshell 22 Fed 1

Sample ID: mb-52224	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 52224	RunNo: 68606								
Prep Date: 5/1/2020	Analysis Date: 5/2/2020	SeqNo: 2373786			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		100	80	120			

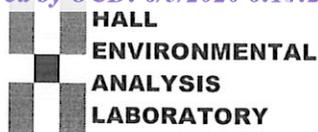
Sample ID: LCS-52224	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 52224	RunNo: 68606								
Prep Date: 5/1/2020	Analysis Date: 5/2/2020	SeqNo: 2373787			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.2	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID: 2005003-001ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: RC-10	Batch ID: 52224	RunNo: 68606								
Prep Date: 5/1/2020	Analysis Date: 5/2/2020	SeqNo: 2373789			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	0.9823	0	100	78.5	119			
Toluene	1.0	0.049	0.9823	0.01923	104	75.7	123			
Ethylbenzene	1.0	0.049	0.9823	0	106	74.3	126			
Xylenes, Total	3.1	0.098	2.947	0.02815	104	72.9	130			
Surr: 4-Bromofluorobenzene	0.97		0.9823		98.8	80	120			

Sample ID: 2005003-001amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: RC-10	Batch ID: 52224	RunNo: 68606								
Prep Date: 5/1/2020	Analysis Date: 5/2/2020	SeqNo: 2373790			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9881	0	103	78.5	119	3.66	20	
Toluene	1.1	0.049	0.9881	0.01923	105	75.7	123	1.42	20	
Ethylbenzene	1.1	0.049	0.9881	0	107	74.3	126	1.55	20	
Xylenes, Total	3.2	0.099	2.964	0.02815	106	72.9	130	2.20	20	
Surr: 4-Bromofluorobenzene	1.0		0.9881		102	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



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

Sample Log-In Check List

Client Name: TALON ARTESIA Work Order Number: 2005003 RcptNo: 1

Received By: Juan Rojas 5/1/2020 9:20:00 AM
Completed By: Desiree Dominguez 5/1/2020 9:34:46 AM
Reviewed By: [Signature] 5/1/20

Chain of Custody

- 1. Is Chain of Custody sufficiently complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: JR 5/1/20

Special Handling (if applicable)

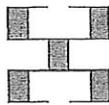
- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 1.5, Good, Not Present, [], [], []



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Chain-of-Custody Record

Turn-Around Time: **4-DAY**
 Standard Rush
 Project Name: **SOFTSHELL 22 FED I**
 Project #: **700794.340.01**

Project Manager: **C. JONES**
 Sampler: **MICHAEL COLLIER**
 On Ice: Yes No
 # of Coolers: **1**
 Cooler Temp (including CP): **1.7-0.2=1.5**
 Container Type and # **GLASS 1 ICE/COOL**
 Preservative Type **ICE/COOL**
 HEAL No. **2005003**

Date	Time	Matrix	Sample Name
4-29-20	9:00	SOIL	RC-10
	9:20		RC-11
	9:40		RC-12
	10:00		RC-13
	10:20		RC-14
	10:40		RC-15
	11:00		RC-16
	11:20		RC-17
	11:40		RC-18

Relinquished by: **MHL Bell**
 Date: **4/30/20** Time: **1230**
 Relinquished by: **[Signature]**
 Date: **4/20/20** Time: **1900**

Analysis Request

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

Remarks: Please cc the following via email:
 Dadkins@talonlpe.com
 Rpons@talonlpe.com
 MCOLLIER@talonlpe.com

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 8611

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 8611
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	12/21/2022