Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	Nab1631955174
District RP	2RP-3991
Facility ID	30-015-29166
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?	92 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ 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)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ 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?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	Nab1631955174
District RP	2RP-3991
Facility ID	30-015-29166
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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.

PPrinted Name: ____Dale Woodall____ Title: ____Env. Professional_____

Signature: Dale Woodall Date: ___12/6/2022___

email: _dale.woodall@dvn.com_____ Telephone: ____575-748-1838_____

OCD Only

Received by: Jocelyn Harimon Date: 12/06/2022

State of New Mexico
Oil Conservation Division

Incident ID	Nab1631955174
District RP	2RP-3991
Facility ID	30-015-29166
Application ID	

Remediation Plan

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

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

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

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 12/6/2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: Jocelyn Harimon Date: 12/06/2022

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Date:

State of New Mexico
Oil Conservation Division

Incident ID	Nab1631955174
District RP	2RP-3991
Facility ID	30-015-29166
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: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 12/6/2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: Jocelyn Harimon Date: 12/06/2022

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: Brittany Hall Date: 12/9/2022

Printed Name: Brittany Hall Title: Environmental Specialist

talonlpe.com • 866.742.0742

TALON LPE

Remediation and Closure Report

West Shugart 30 Federal #001
Eddy County, New Mexico
30-015-29166
Incident #NAB1631955174

Prepared For:

Devon Energy Production Company
Seven Rivers Hwy.
Artesia, NM 88210

Prepared By:

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

March 15, 2021

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

Jim Amos
BLM
620 E. Greene St.
Carlsbad, NM 88220

Subject: **Remediation and Closure Report**
West Shugart 30 Federal #001
Eddy County, New Mexico
Incident #NAB1631955174

Dear Mr. Bratcher,

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

Site Information

The West Shugart 30 Federal #001 is location approximately thirty-two (32) miles east of Artesia, New Mexico. The legal location for this release is Unit Letter F, Section 30, Township 18 South and Range 31 East in Eddy County, New Mexico. More specifically, the latitude and longitude for the release are 32.7202911 North and -103.9105072 West. A Site Map is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Berino loamy fine sand with 0 to 3 percent slopes. The reference soil data is presented in Appendix II. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Quaternary in age and is comprised of mixed alluvium and/or eolian sands. 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 92-feet below ground surface (BGS). See Appendix II for the referenced groundwater depth. This site is not located within a 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	92 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 a 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 fresh water 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 a karst area, and the depth to groundwater is 50-100 feet deep, based on the site characterization data the clean up criteria for this site is as follows.

Table I
Closure Criteria for Soils Impacted by a Release

Depth below horizontal extents of release to ground water less than 10,000 mg/l TDS	Constituent	Method	Limit
50-100 feet	Total Chlorides	EPA 300.0 or SM4500 Cl B	10,000mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	1,000 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

On November 03, 2016, a produced water tank was struck by lightning during a storm resulting in a release of approximately 140 barrels (bbls.) of produced water. No produced water was recovered. All wells were shut in to prevent further release. The released fluid flowed in a southwestern direction leaving both the containment and the pad mixing with rainwater. According to the C-141, the approximate area on the pad measured 30 ft. X 74 ft., and the affected pasture area measured 75 yds. by 30 yds. on the southwest side of the containment. The remediated area is represented on the site map presented in Appendix I

Site Assessment

On May 02, 2017 Talon mobilized personnel to the site and conducted the initial site assessment. Soil samples were collected from the footprint of the spill area utilizing a hand auger. The soil samples were transported to Cardinal Laboratories for analyses of total Chlorides, TPH, and BTEX.

Based on the site assessment, on May 09,2017 a remediation work plan was drafted and submitted to the NMOCD, and BLM respectively for consideration. On July 26,2018 the NMOCD, as well as the BLM approved the work plan without condition. The work plan can be viewed in Appendix V.

On August 31, 2020, Talon personnel revisited the site in order to conduct a follow up assessment. Utilizing a hand auger, soil samples were grabbed in the spill footprint area. All soil samples were properly packaged, preserved, and transported to Hall Laboratories via chain of custody for analysis of Total Chlorides (EPA Method 300.0), TPH (EPA Method 8015M), and BTEX (EPA Method 8021B). Sample locations are shown on the attached site plan and the results of our sampling event are presented in the following data table.

Soil Sample Laboratory Results
09/11/2020

Sample ID	Sample Date	Depth ft.(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 = 5,000 mg/kg			5,000 mg/kg	1,000 mg/kg
S-1	8/31/2020	0-1’	ND	ND	ND	ND	ND	-	290
	8/31/2020	2’	ND	ND	ND	ND	ND	-	77
S-2	8/31/2020	0-1’	ND	ND	ND	ND	ND	-	120
	8/31/2020	2’	ND	ND	ND	ND	ND	-	280
S-3	8/31/2020	0-1’	ND	ND	ND	ND	ND	-	ND
	8/31/2020	2’	ND	ND	ND	ND	ND	-	160
S-4	8/31/2020	0-1’	ND	ND	ND	ND	ND	-	ND
	8/31/2020	2’	ND	ND	ND	ND	ND		690
NBG	8/31/2020	0'	ND	ND	ND	470	970	-	ND
EBG	8/31/2020	0’	ND	ND	ND	ND	ND	-	130
WBG	8/31/2020	0’	ND	ND	ND	ND	ND	-	ND
SBG	8/31/2020	0’	ND	ND	ND	ND	ND	-	7700

ND-Analyte Not Detected

See Appendix VI for the complete report of laboratory results.

On December 03, 2020 Talon mobilized equipment and personnel to the West Shugart 30 Federal #001. The areas of sample positions 1 (S-1) thru S-2 were hand excavated to a depth of 1’ BGS. Utilizing mechanized equipment, the south background area was also excavated to a depth of 1’ bgs. Composite samples were retrieved and transported to hall Laboratories for analysis of total Chloride, TPH, and BTEX. The confirmation results are tabled below.

Soil Sample Laboratory Results
12/16/2020

Sample ID	Sample Date	Depth ft.(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 = 5,000 mg/kg			5,000 mg/kg	1,000 mg/kg
S-1A	12/03/2020	1’	ND	ND	ND	32	ND	-	75
S-2A	12/03/2020	1’	ND	ND	ND	ND	ND	-	83
S-4A	12/03/2020	1’	ND	ND	ND	ND	ND	-	ND
S-BGA	8/31/2020	1’	ND	ND	ND	ND	ND	-	ND

ND-Analyte Not Detected

See Appendix VI for the complete report of laboratory results.

Remedial Actions

- The West Shugart 30 Federal #001 was remediated in accordance with the approved work plan.
- The impacted soil was excavated and disposed of at a NMOCD approved solid waste disposal facility.
- Confirmation soil samples were collected and verified analyte levels were below NMOCD and BLM remediation guidelines.
- Fresh caliche, similar in grade was used to backfill the location. The containment area was packed and restored to surrounding grade.
- The pasture area has been reseeded in accordance with BLM guidelines.

Closure

Based on this site characterization, remedial actions completed, 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

Rebecca Pons

Digitally signed by Rebecca Pons
DN: cn=Rebecca Pons, o=Talon LPE, ou=Artesia, email=Rpons@talonlpe.com, c=US
Date: 2021.03.16 08:14:54 -06'00'

Rebecca Pons
Senior Project Manager

David J. Adkins

Digitally signed by David J. Adkins
DN: cn=David J. Adkins, o=Talon/LPE, ou=Regional Manager, email=dadkins@talonlpe.com, c=US
Date: 2021.03.15 14:00:38 -06'00'

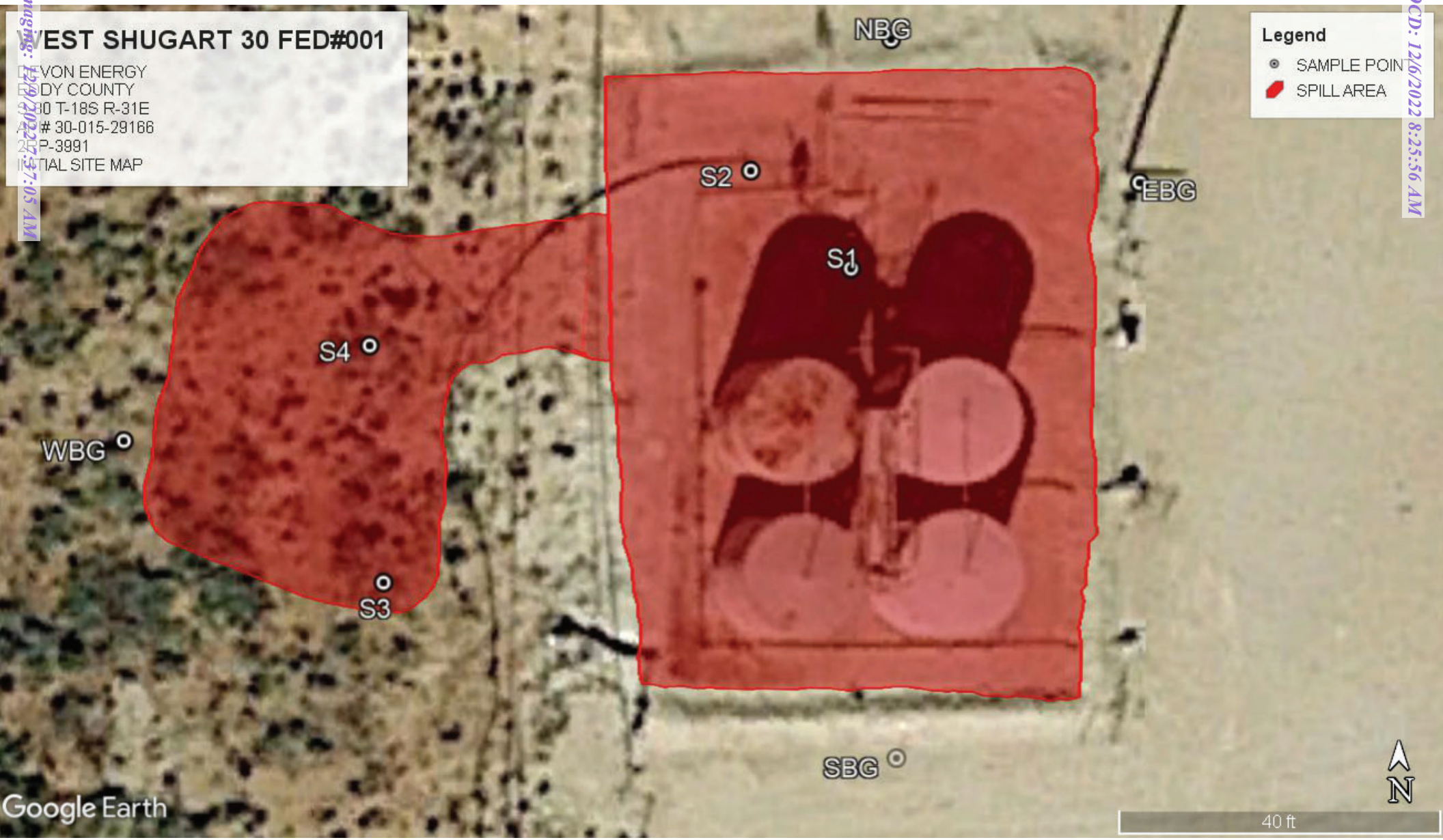
David J. Adkins
Regional Manager

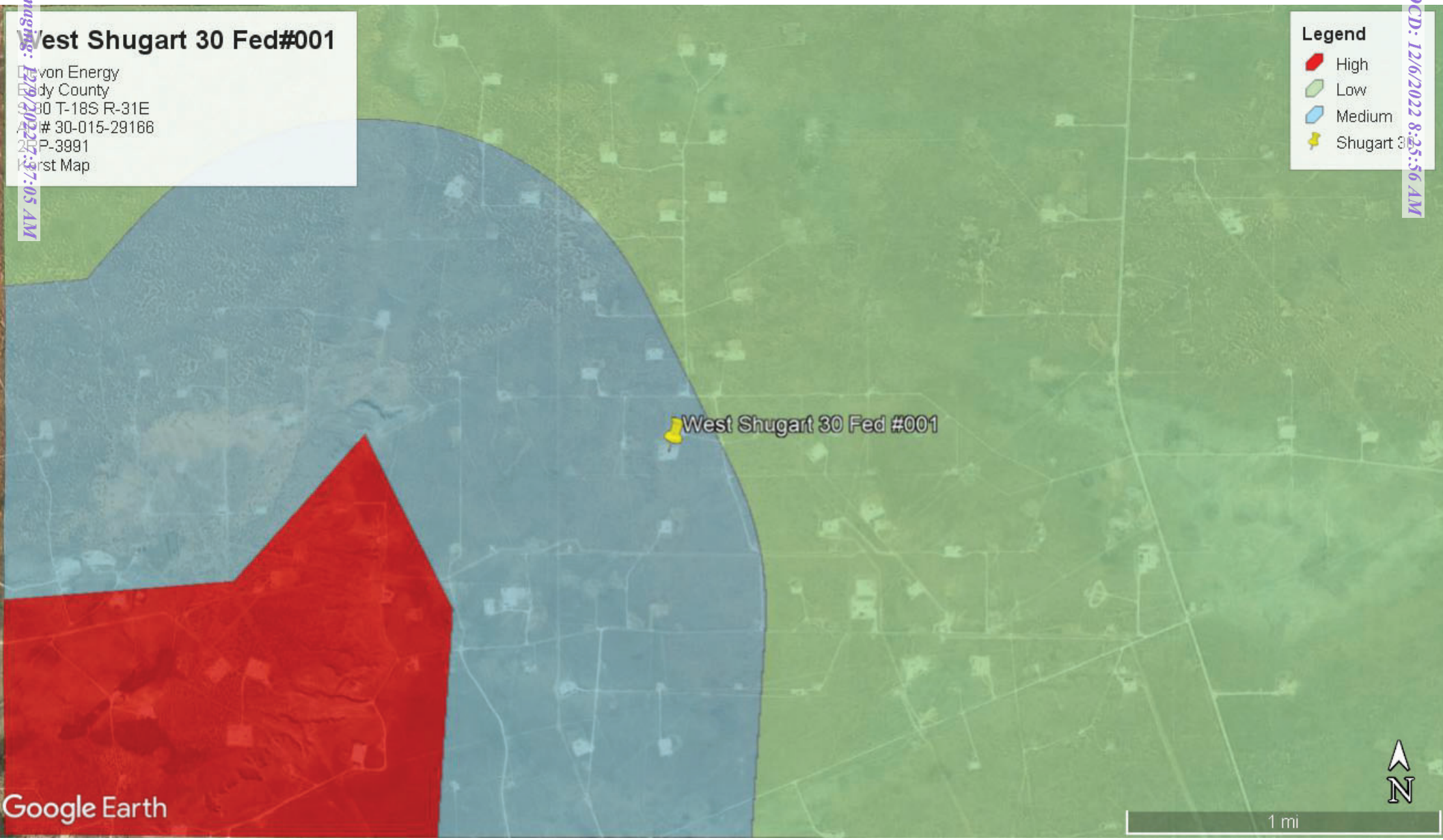
Attachments:

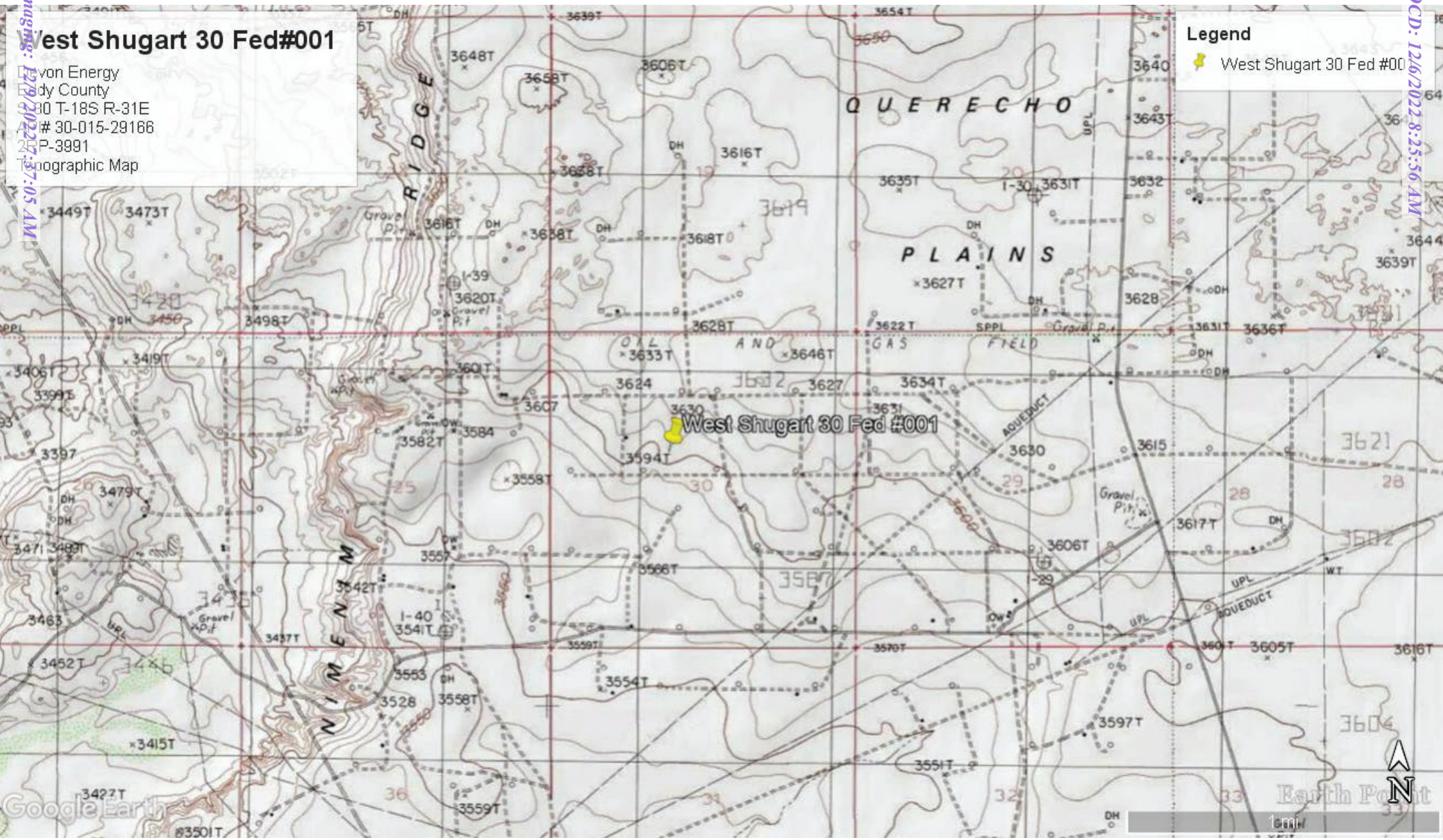
Appendix I	Site Maps, Karst Map, TOPO Map
Appendix II	Groundwater Data, FEMA Flood Zone, Soil Survey
Appendix III	Initial and Final C-141's
Appendix IV	Photo Documentation
Appendix V	Work Plan
Appendix VI	Laboratory Data

APPENDIX I

SITE MAPS





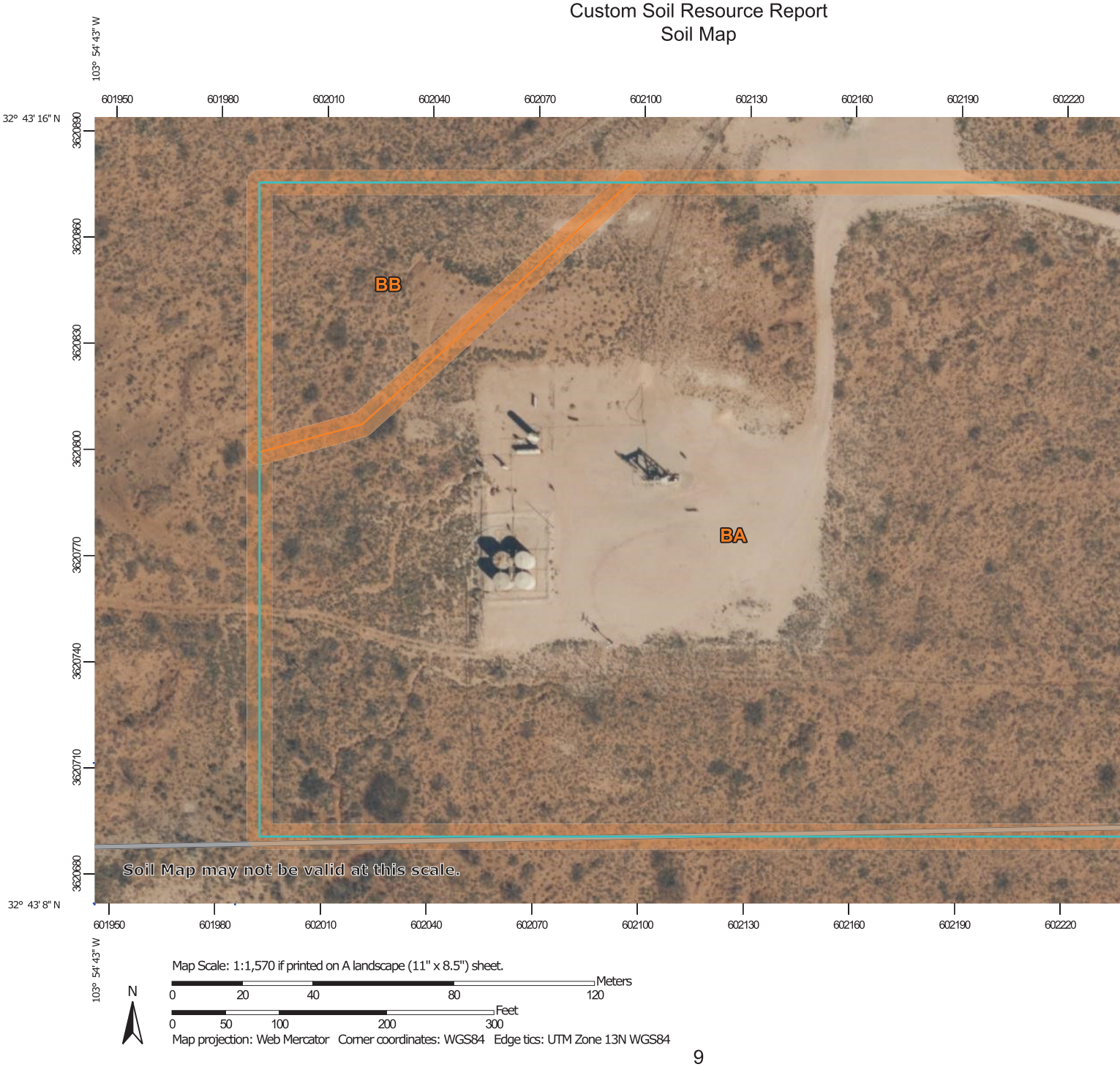


APPENDIX II

SOIL SURVEY,

GROUNDWATER DATA

Custom Soil Resource Report
Soil Map



Eddy Area, New Mexico

BA—Berino loamy fine sand, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w42
Elevation: 2,000 to 5,700 feet
Mean annual precipitation: 6 to 14 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: 99 percent
Minor components: 1 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 12 inches: loamy fine sand
H2 - 12 to 58 inches: sandy clay loam
H3 - 58 to 60 inches: clay loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
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 content: 40 percent
Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water capacity: Moderate (about 8.4 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R042XC007NM - Loamy
Hydric soil rating: No

Minor Components

Pajarito

Percent of map unit: 1 percent
Ecological site: R042XC003NM - Loamy Sand
Hydric soil rating: No

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
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 content: 40 percent
Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0

Available water capacity: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R042XC003NM - Loamy Sand
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
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water capacity: Moderate (about 8.0 inches)

Interpretive groups

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

Minor Components

Cacique

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

Pajarito

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

Wink

Percent of map unit: 4 percent

Ecological site: R042XC003NM - Loamy Sand
Hydric soil rating: No

Kermit

Percent of map unit: 3 percent
Ecological site: R042XC005NM - Deep Sand
Hydric soil rating: No

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

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00818 POD1		CP	LE		1	4	26	18S	30E	599289	3620364*	2806	240		
CP 00767 POD1		CP	ED		3	2	35	18S	30E	599300	3619158*	3203	500		
CP 00853 POD1	O	CP	ED		2	4	28	18S	30E	596472	3620340*	5609	350		
CP 00849 POD1		CP	LE	3	1	3	35	18S	31E	608012	3618757*	6280	300		
CP 00647 POD1	O	CP	ED	4	2	2	15	19S	30E	598235	3614621*	7249	200	92	108
CP 00819 POD1		CP	LE		2	4	32	18S	30E	594878	3618720*	7475	150		
CP 00873 POD1		CP	LE		1	1	19	19S	31E	601772	3613147*	7634	340	180	160
RA 11590 POD1		RA	ED	2	1	3	32	17S	31E	603315	3628545	7869	158		
CP 00829 POD1		CP	LE		2	4	16	19S	31E	606165	3614009*	7912	120		
CP 00822 POD1		CP	LE		4	4	15	19S	30E	598148	3613516*	8249	90		
CP 00357 POD1		CP	ED	4	4	1	24	19S	30E	600667	3612631*	8264	630		
CP 00357 POD2		CP	ED	4	3	1	24	19S	30E	600265	3612627*	8345	630		
RA 11590 POD4		RA	ED	4	1	1	32	17S	31E	603308	3629253	8568	55		
RA 11590 POD3		RA	ED	3	1	2	32	17S	31E	603932	3629260	8687	60		
CP 01554 POD1		CP	LE	2	2	1	22	19S	31E	607166	3613354	9005	400		
CP 01554 POD2		CP	LE	2	2	1	22	19S	31E	607165	3613322	9031	400		
CP 00722 POD2		CP	ED	2	1	1	25	19S	30E	600276	3611620*	9329	350	65	285

Average Depth to Water: **112 feet**

Minimum Depth: **65 feet**

Maximum Depth: **180 feet**

Record Count: 17

UTMNAD83 Radius Search (in meters):

Easting (X): 602064.69 **Northing (Y):** 3620776.1 **Radius:** 10000

***UTM location was derived from PLSS - see Help**

12/31/20 1:43 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

APPENDIX III

C-141 Forms

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

NM OIL CONSERVATION
ARTESIA DISTRICT
NOV 10 2016
RECEIVED

Form C-141
Revised August 8, 2011
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

nAB1631955174

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Devon Energy Production Company 6137	**Contact** Danny Velo, Production Foreman
Address 6488 Seven Rivers Hwy Artesia, NM 88210	**Telephone No.** 575.703.3360
Facility Name West Shugart 30 Fed 1	**Facility Type** Gas

Surface Owner Federal	**Mineral Owner** Federal	**API No** 30-015-29166

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	30	18S	31E	1980	North	1980	West	Eddy

Latitude: 32.7202911 **Longitude:** 103.9105072

NATURE OF RELEASE

Type of Release Produced Water (PW)	**Volume of Release** 140BBLS	**Volume Recovered** 0BBLS
Source of Release Water Tank	**Date and Hour of Occurrence** 11/3/2016 @4:24PM	**Date and Hour of Discovery** 11/3/2016@4:24PM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	**If YES, To Whom?** OCD-Mike Bratcher BLM-Shelly Tucker	
By Whom? Jesse Armendariz, Assistant Production Foreman	**Date and Hour** OCD-11/3/2016 @11:00AM BLM-11/3/2016@11:56AM	
Was a Watercourse Reached? ☐ Yes ☒ No	**If YES, Volume Impacting the Watercourse** N/A	

If a Watercourse was Impacted, Describe Fully.*
No

Describe Cause of Problem and Remedial Action Taken.
Produced water tank was struck by lightning resulting in a produced water release. All the wells were shut in to prevent further release. Repairs are planned.

Describe Area Affected and Cleanup Action Taken.
Fiberglass water tank was struck by lightning during storm releasing 140 BBLS of pw into the surrounding earthen bermed containment. 0 BBLS pw was recovered. The released fluid flowed in a southwestern direction leaving both containment and the pad mixing with rainwater. The approximate area affected on pad is 30ft by 75ft. The total affected area off pad is 75 yards by 30 yards on the southwest side of pad. An environmental agency will be contacted for remediation.

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

Signature: Dana DeLaRosa	OIL CONSERVATION DIVISION Signed By Mike Bratcher	
Printed Name: Dana DeLaRosa	Approved by Environmental Specialist:	
Title: **Field Admin Support**	Approval Date: 11/14/16	Expiration Date: N/A
E-mail Address: **Dana.Delarosa@dvn.com**	Conditions of Approval:	Attached ☑
Date: 11/10/2016 Phone: **575.746.5594**		

* Attach Additional Sheets If Necessary

2RP-3991

Bratcher, Mike, EMNRD

From: DeLaRosa, Dana <Dana.DeLaRosa@dvn.com>
Sent: Thursday, November 10, 2016 7:19 AM
To: Tucker, Shelly; Bratcher, Mike, EMNRD
Subject: West Shugart 30 Federal 1_140BBL PW_11.3.2016
Attachments: West Shugart 30 Fed 1_140bbl pw_Initial C-141_11 3 16.doc; West Shugart 30 Federal 1_140BBL PW_11.3.2016_GIS Image.pdf

Good afternoon,

Attached is the Initial C141 and GIS Image for the 140BBL Oil release that occurred on 11.3.2016. The red dot on the GIS Image represents the approximate origin of release.

Thank you and have a great day,

Dana DeLaRosa
Field Admin Support
Production
B-Schedule

devon

Devon Energy Corporation
PO Box 250
Artesia, NM 88211
575-746-5594

State of New Mexico
Oil Conservation Division

Incident ID	Nab1631955174
District RP	2RP-3991
Facility ID	30-015-29166
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?	92 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ 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)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ 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?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	Nab1631955174
District RP	2RP-3991
Facility ID	30-015-29166
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.

PPrinted Name: ____Dale Woodall____ Title: ____Env. Professional_____

Signature: Dale Woodall Date: ___12/6/2022___

email: _dale.woodall@dvn.com_____ Telephone: ____575-748-1838_____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	Nab1631955174
District RP	2RP-3991
Facility ID	30-015-29166
Application ID	

Remediation Plan

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

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

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

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 12/6/2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	Nab1631955174
District RP	2RP-3991
Facility ID	30-015-29166
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: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 12/6/2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

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: _____ Date: _____

Printed Name: _____ Title: _____

APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

Devon Energy West Shugart 30 Fed #001

PHOTO DOCUMENTATION

S. side of containment

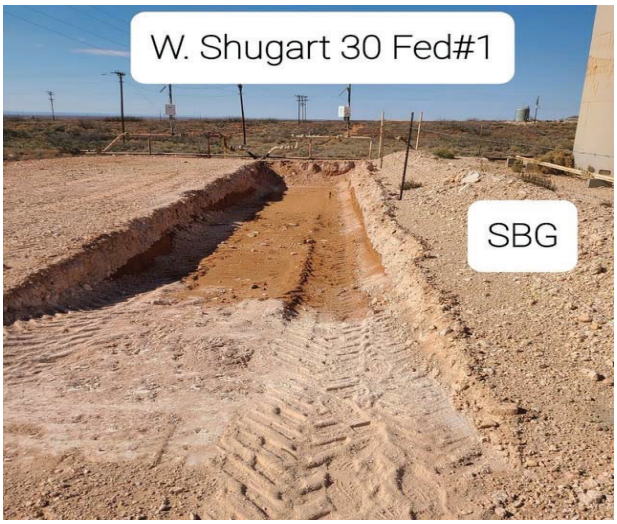
Pasture Area

Interior of containment hand excavated @ (S1 and S2)

Pasture Excavation

Devon Energy West Shugart 30 Fed #001

PHOTO DOCUMENTATION



Excavated area South of containment

Pature Area

Pasture Backfilled

Restored Pad Area S. of containment

Interior of containment (Area of S1 and S2)

APPENDIX V

Approved Work Plan

talonlpe.com • 866.742.0742

TALON LPE

Soil Assessment and Remediation Work Plan

W Shugart 30 Federal #1 * 30-015-29166 * 2RP-3991

Prepared For:
Devon Energy Production
6488 Seven Rivers Hwy
Artesia, New Mexico 88210

Prepared By:
Kimberly M. Wilson
TALON/LPE
408 W. Texas Avenue
Artesia, New Mexico 88210

May 9, 2017

Mr. Mike Bratcher
NMOCD District 2
Artesia, NM 88210

Subject: **Soil Assessment and Remediation Work Plan**
West Shugart 30 Federal #1 – 30-015-29166 * 2RP-3991

Dear Mr. Bratcher,

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

Site Information

The West Shugart 30 Federal #1 is located approximately thirty-two (32) miles east of Artesia, New Mexico. The legal location for this release is Unit Letter F, Section 30, Township 18 South and Range 31 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.7202911 North and 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 loamy fine sands complex with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Quaternary in age and is comprised of eolian sands and piedmont deposits which include silty soils under lain with a sandy clay loam and hard caliche. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

The New Mexico State Engineer web site indicates that there is no known ground water in the area. See Appendix II for the referenced groundwater data.

Therefore the ranking for this site is a **0** based on the following:

Depth to ground water	>100’
Wellhead Protection Area	>1000’
Distance to surface water body	>1000’

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, and 5,000 mg/kg for TPH. The clean up criteria for total chlorides is considered to be 1,000 mg/kg.

Incident Description and Initial Remedial Actions

On November 3, 2016 the fiberglass water tank was struck by lightning resulting in a release of 140 barrels of fluid into the unlined containment. The fluid breached the west side berm causing fluids to flow into the pasture. No fluids were recovered. The battery was immediately shut-in. A site plan is presented in Appendix I which illustrates the impacted area. See initial C-141 in Appendix II

On May 2, 2017 Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected utilizing a hand auger.

See Appendix III for complete report of laboratory results.

March 13, 2017

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0'	<0.300	4720	<50	15600
Refusal	1'	<0.300	1220	<10	396
S-2	0'	<0.300	7040	<50	30700
	1'	<0.300	112	<10	13.8
	2'	--	128	--	--
	3'	--	336	--	--
Refusal	3.5'	--	768	--	--
S-3	0'	<0.300	224	<50	3540
	1'	<0.300	32	<10	<10
	2'	--	944	--	--
Refusal	3'	--	112	--	--
S-4	0'	<0.300	800	<10	<10
	1'	<0.300	608	<10	<10
	2'	--	144	--	--
Refusal	4'	--	144	--	--

Proposed Remedial Actions

- The impacted areas in the battery surrounding S-1 and S-2 will be excavated to a depth of 1-foot deep.
- The areas in the pasture are under the Recommended Remedial Action Levels (RRAL's), therefore no further action is required.
- All contaminated soil will be transported to Lea Land, LLC, a NMOCD approved disposal facility.
- The excavated area will be backfilled with new caliche. Once the backfill activities are complete the work area will be compacted.
- A final closure report documenting all remedial actions will be provided to the NMOCD Artesia Office along with a Final C-141 Form.

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

Respectfully submitted,

TALON/LPE

Kimberly M. Wilson
Project Manager

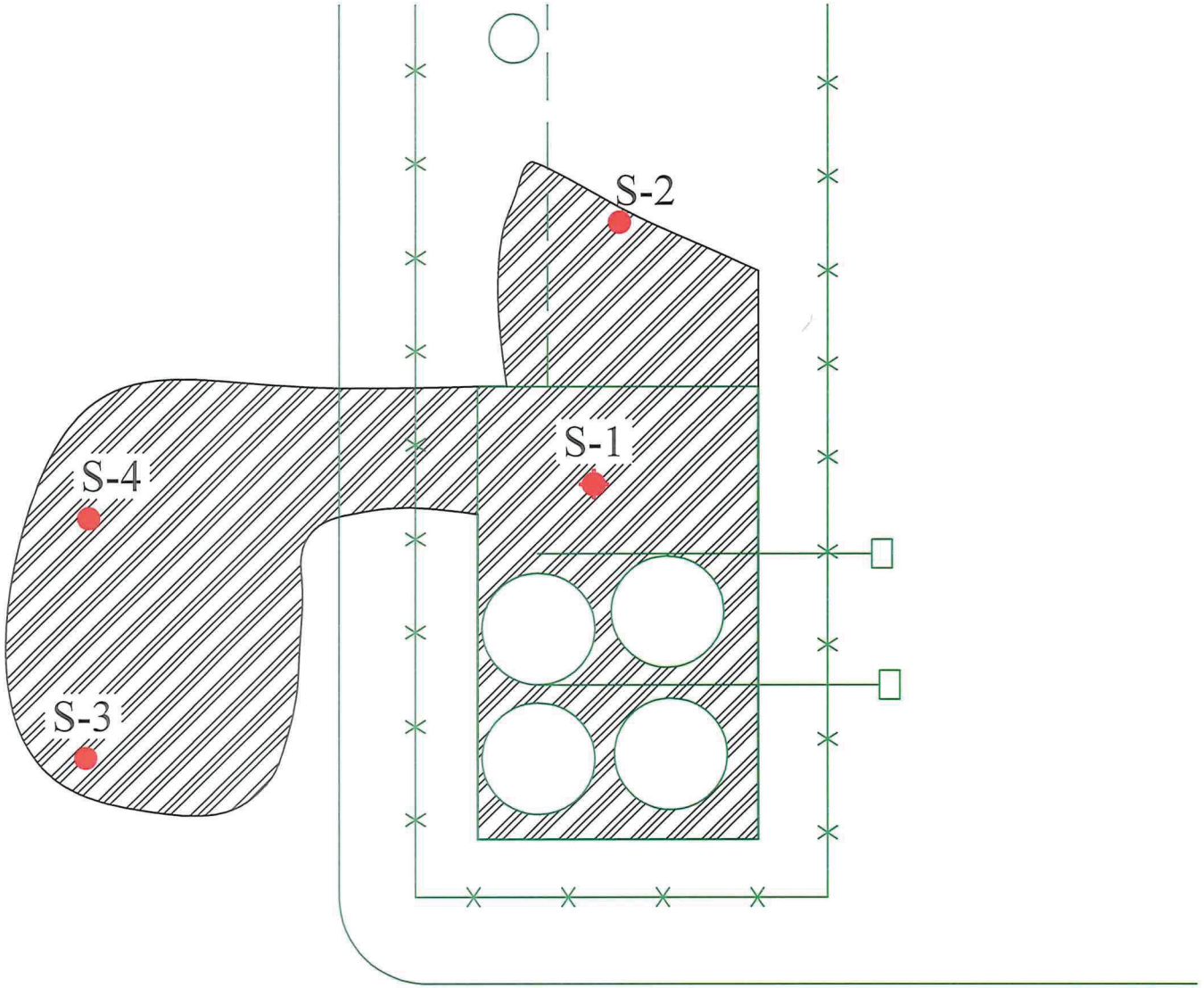
David J. Adkins
District Manager

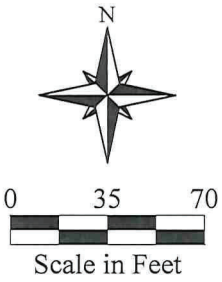
Attachments:

Appendix I Site Plan
Appendix II Groundwater Data & Initial C-141
Appendix III Laboratory Results

APPENDIX I

SITE MAP





Legend

- Sample Location
- Impacted Area

Date:	05/22/2017
Scale:	1"=70'
Drawn By:	IJM

West Shugart 30 Fed. No. 1
Devon Energy Corporation
Artesia, New Mexico
Figure 1 - Site Plan

APPENDIX VI

Laboratory Data

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

September 11, 2020

Rebecca Pons

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

RE: Devon West Shugart 30 Fed 001 W. Shugart 30 OrderNo.: 2009001

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 12 sample(s) on 9/1/2020 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2009001**
Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: S-1 0-1'
Project: Devon West Shugart 30 Fed 001 W. Shug
Collection Date: 8/31/2020 10:30:00 AM
Lab ID: 2009001-001 **Matrix:** SOIL
Received Date: 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	290	60		mg/Kg	20	9/6/2020 12:41:56 AM	54979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/4/2020 6:48:06 AM	54895
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/4/2020 6:48:06 AM	54895
Surr: DNOP	62.9	30.4-154		%Rec	1	9/4/2020 6:48:06 AM	54895
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/4/2020 4:46:16 PM	54867
Surr: BFB	93.6	75.3-105		%Rec	1	9/4/2020 4:46:16 PM	54867
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	9/4/2020 4:46:16 PM	54867
Toluene	ND	0.050		mg/Kg	1	9/4/2020 4:46:16 PM	54867
Ethylbenzene	ND	0.050		mg/Kg	1	9/4/2020 4:46:16 PM	54867
Xylenes, Total	ND	0.10		mg/Kg	1	9/4/2020 4:46:16 PM	54867
Surr: 4-Bromofluorobenzene	96.4	80-120		%Rec	1	9/4/2020 4:46:16 PM	54867

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

Qualifiers:

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

Analytical Report
Lab Order **2009001**
Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: S-1 2'
Project: Devon West Shugart 30 Fed 001 W. Shug
Collection Date: 8/31/2020 10:40:00 AM
Lab ID: 2009001-002 **Matrix:** SOIL
Received Date: 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	77	59		mg/Kg	20	9/6/2020 1:19:10 AM	54979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/4/2020 7:17:09 AM	54895
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/4/2020 7:17:09 AM	54895
Surr: DNOP	62.7	30.4-154		%Rec	1	9/4/2020 7:17:09 AM	54895
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/4/2020 5:56:47 PM	54867
Surr: BFB	98.8	75.3-105		%Rec	1	9/4/2020 5:56:47 PM	54867
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	9/4/2020 5:56:47 PM	54867
Toluene	ND	0.049		mg/Kg	1	9/4/2020 5:56:47 PM	54867
Ethylbenzene	ND	0.049		mg/Kg	1	9/4/2020 5:56:47 PM	54867
Xylenes, Total	ND	0.097		mg/Kg	1	9/4/2020 5:56:47 PM	54867
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	9/4/2020 5:56:47 PM	54867

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2009001**
Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: S-2 0-1'
Project: Devon West Shugart 30 Fed 001 W. Shug
Collection Date: 8/31/2020 10:50:00 AM
Lab ID: 2009001-003 **Matrix:** SOIL
Received Date: 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	120	60		mg/Kg	20	9/6/2020 1:31:35 AM	54979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/4/2020 7:26:47 AM	54895
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/4/2020 7:26:47 AM	54895
Surr: DNOP	69.3	30.4-154		%Rec	1	9/4/2020 7:26:47 AM	54895
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/4/2020 7:07:17 PM	54867
Surr: BFB	98.1	75.3-105		%Rec	1	9/4/2020 7:07:17 PM	54867
EPA METHOD 8021B: VOLATILES						Analyst:	**RAA**
Benzene	ND	0.025		mg/Kg	1	9/4/2020 7:07:17 PM	54867
Toluene	ND	0.050		mg/Kg	1	9/4/2020 7:07:17 PM	54867
Ethylbenzene	ND	0.050		mg/Kg	1	9/4/2020 7:07:17 PM	54867
Xylenes, Total	ND	0.10		mg/Kg	1	9/4/2020 7:07:17 PM	54867
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	9/4/2020 7:07:17 PM	54867

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2009001**
Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: S-2 2'
Project: Devon West Shugart 30 Fed 001 W. Shug
Collection Date: 8/31/2020 11:00:00 AM
Lab ID: 2009001-004 **Matrix:** SOIL
Received Date: 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	280	60		mg/Kg	20	9/6/2020 1:43:59 AM	54979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	9/4/2020 7:36:23 AM	54895
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/4/2020 7:36:23 AM	54895
Surr: DNOP	66.3	30.4-154		%Rec	1	9/4/2020 7:36:23 AM	54895
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/4/2020 7:30:43 PM	54867
Surr: BFB	96.0	75.3-105		%Rec	1	9/4/2020 7:30:43 PM	54867
EPA METHOD 8021B: VOLATILES						Analyst:	**RAA**
Benzene	ND	0.025		mg/Kg	1	9/4/2020 7:30:43 PM	54867
Toluene	ND	0.049		mg/Kg	1	9/4/2020 7:30:43 PM	54867
Ethylbenzene	ND	0.049		mg/Kg	1	9/4/2020 7:30:43 PM	54867
Xylenes, Total	ND	0.098		mg/Kg	1	9/4/2020 7:30:43 PM	54867
Surr: 4-Bromofluorobenzene	99.2	80-120		%Rec	1	9/4/2020 7:30:43 PM	54867

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2009001**
Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: NBG
Project: Devon West Shugart 30 Fed 001 W. Shug
Collection Date: 8/31/2020 11:20:00 AM
Lab ID: 2009001-005 **Matrix:** SOIL
Received Date: 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	ND	60		mg/Kg	20	9/6/2020 2:21:12 AM	54979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	470	97		mg/Kg	10	9/4/2020 7:45:55 AM	54895
Motor Oil Range Organics (MRO)	970	480		mg/Kg	10	9/4/2020 7:45:55 AM	54895
Surr: DNOP	0	30.4-154	S	%Rec	10	9/4/2020 7:45:55 AM	54895
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/4/2020 7:54:10 PM	54867
Surr: BFB	96.8	75.3-105		%Rec	1	9/4/2020 7:54:10 PM	54867
EPA METHOD 8021B: VOLATILES						Analyst:	**RAA**
Benzene	ND	0.025		mg/Kg	1	9/4/2020 7:54:10 PM	54867
Toluene	ND	0.050		mg/Kg	1	9/4/2020 7:54:10 PM	54867
Ethylbenzene	ND	0.050		mg/Kg	1	9/4/2020 7:54:10 PM	54867
Xylenes, Total	ND	0.10		mg/Kg	1	9/4/2020 7:54:10 PM	54867
Surr: 4-Bromofluorobenzene	97.8	80-120		%Rec	1	9/4/2020 7:54:10 PM	54867

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2009001**
Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: S-4 0-1'
Project: Devon West Shugart 30 Fed 001 W. Shug
Collection Date: 8/31/2020 11:30:00 AM
Lab ID: 2009001-006 **Matrix:** SOIL
Received Date: 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	59		mg/Kg	20	9/6/2020 2:33:37 AM	54979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/4/2020 7:55:27 AM	54895
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/4/2020 7:55:27 AM	54895
Surr: DNOP	85.5	30.4-154		%Rec	1	9/4/2020 7:55:27 AM	54895
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/4/2020 8:17:40 PM	54867
Surr: BFB	94.6	75.3-105		%Rec	1	9/4/2020 8:17:40 PM	54867
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	9/4/2020 8:17:40 PM	54867
Toluene	ND	0.050		mg/Kg	1	9/4/2020 8:17:40 PM	54867
Ethylbenzene	ND	0.050		mg/Kg	1	9/4/2020 8:17:40 PM	54867
Xylenes, Total	ND	0.099		mg/Kg	1	9/4/2020 8:17:40 PM	54867
Surr: 4-Bromofluorobenzene	98.5	80-120		%Rec	1	9/4/2020 8:17:40 PM	54867

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

Qualifiers:

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

Analytical Report
Lab Order **2009001**
Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: S-4 2'
Project: Devon West Shugart 30 Fed 001 W. Shug
Collection Date: 8/31/2020 11:35:00 AM
Lab ID: 2009001-007 **Matrix:** SOIL
Received Date: 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	690	60		mg/Kg	20	9/6/2020 2:46:01 AM	54979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/4/2020 8:04:58 AM	54895
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/4/2020 8:04:58 AM	54895
Surr: DNOP	65.4	30.4-154		%Rec	1	9/4/2020 8:04:58 AM	54895
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/4/2020 8:41:02 PM	54867
Surr: BFB	92.9	75.3-105		%Rec	1	9/4/2020 8:41:02 PM	54867
EPA METHOD 8021B: VOLATILES						Analyst:	**RAA**
Benzene	ND	0.024		mg/Kg	1	9/4/2020 8:41:02 PM	54867
Toluene	ND	0.049		mg/Kg	1	9/4/2020 8:41:02 PM	54867
Ethylbenzene	ND	0.049		mg/Kg	1	9/4/2020 8:41:02 PM	54867
Xylenes, Total	ND	0.098		mg/Kg	1	9/4/2020 8:41:02 PM	54867
Surr: 4-Bromofluorobenzene	98.6	80-120		%Rec	1	9/4/2020 8:41:02 PM	54867

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2009001**
Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: EBG
Project: Devon West Shugart 30 Fed 001 W. Shug
Collection Date: 8/31/2020 11:36:00 AM
Lab ID: 2009001-008 **Matrix:** SOIL
Received Date: 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	130	60		mg/Kg	20	9/6/2020 2:58:26 AM	54979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/4/2020 3:12:30 PM	54895
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/4/2020 3:12:30 PM	54895
Surr: DNOP	85.8	30.4-154		%Rec	1	9/4/2020 3:12:30 PM	54895
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/4/2020 9:04:21 PM	54867
Surr: BFB	94.5	75.3-105		%Rec	1	9/4/2020 9:04:21 PM	54867
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	9/4/2020 9:04:21 PM	54867
Toluene	ND	0.049		mg/Kg	1	9/4/2020 9:04:21 PM	54867
Ethylbenzene	ND	0.049		mg/Kg	1	9/4/2020 9:04:21 PM	54867
Xylenes, Total	ND	0.098		mg/Kg	1	9/4/2020 9:04:21 PM	54867
Surr: 4-Bromofluorobenzene	97.3	80-120		%Rec	1	9/4/2020 9:04:21 PM	54867

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2009001**
Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: S-3 0-1'
Project: Devon West Shugart 30 Fed 001 W. Shug
Collection Date: 8/31/2020 11:40:00 AM
Lab ID: 2009001-009 **Matrix:** SOIL
Received Date: 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	60		mg/Kg	20	9/6/2020 3:10:50 AM	54979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	9/4/2020 8:24:06 AM	54895
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	9/4/2020 8:24:06 AM	54895
Surr: DNOP	70.0	30.4-154		%Rec	1	9/4/2020 8:24:06 AM	54895
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/4/2020 9:27:42 PM	54867
Surr: BFB	96.7	75.3-105		%Rec	1	9/4/2020 9:27:42 PM	54867
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	9/4/2020 9:27:42 PM	54867
Toluene	ND	0.050		mg/Kg	1	9/4/2020 9:27:42 PM	54867
Ethylbenzene	ND	0.050		mg/Kg	1	9/4/2020 9:27:42 PM	54867
Xylenes, Total	ND	0.099		mg/Kg	1	9/4/2020 9:27:42 PM	54867
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	9/4/2020 9:27:42 PM	54867

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2009001**
Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: S-3 2'
Project: Devon West Shugart 30 Fed 001 W. Shug
Collection Date: 8/31/2020 11:46:00 AM
Lab ID: 2009001-010 **Matrix:** SOIL
Received Date: 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	160	60		mg/Kg	20	9/6/2020 3:23:15 AM	54979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/4/2020 8:33:40 AM	54895
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/4/2020 8:33:40 AM	54895
Surr: DNOP	69.1	30.4-154		%Rec	1	9/4/2020 8:33:40 AM	54895
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/4/2020 9:51:02 PM	54867
Surr: BFB	96.1	75.3-105		%Rec	1	9/4/2020 9:51:02 PM	54867
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	9/4/2020 9:51:02 PM	54867
Toluene	ND	0.047		mg/Kg	1	9/4/2020 9:51:02 PM	54867
Ethylbenzene	ND	0.047		mg/Kg	1	9/4/2020 9:51:02 PM	54867
Xylenes, Total	ND	0.094		mg/Kg	1	9/4/2020 9:51:02 PM	54867
Surr: 4-Bromofluorobenzene	99.7	80-120		%Rec	1	9/4/2020 9:51:02 PM	54867

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2009001**
Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: WBG
Project: Devon West Shugart 30 Fed 001 W. Shug
Collection Date: 8/31/2020 11:50:00 AM
Lab ID: 2009001-011 **Matrix:** SOIL
Received Date: 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	61		mg/Kg	20	9/6/2020 3:35:40 AM	54979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	9/4/2020 8:43:19 AM	54895
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	9/4/2020 8:43:19 AM	54895
Surr: DNOP	69.9	30.4-154		%Rec	1	9/4/2020 8:43:19 AM	54895
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/4/2020 11:01:16 PM	54867
Surr: BFB	94.0	75.3-105		%Rec	1	9/4/2020 11:01:16 PM	54867
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.023		mg/Kg	1	9/4/2020 11:01:16 PM	54867
Toluene	ND	0.047		mg/Kg	1	9/4/2020 11:01:16 PM	54867
Ethylbenzene	ND	0.047		mg/Kg	1	9/4/2020 11:01:16 PM	54867
Xylenes, Total	ND	0.093		mg/Kg	1	9/4/2020 11:01:16 PM	54867
Surr: 4-Bromofluorobenzene	98.8	80-120		%Rec	1	9/4/2020 11:01:16 PM	54867

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2009001**
Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: SBG
Project: Devon West Shugart 30 Fed 001 W. Shug
Collection Date: 8/31/2020 11:55:00 AM
Lab ID: 2009001-012 **Matrix:** SOIL
Received Date: 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CJS**	
Chloride	7700	300		mg/Kg	100	9/8/2020 7:06:31 PM	54979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/4/2020 8:52:57 AM	54895
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/4/2020 8:52:57 AM	54895
Surr: DNOP	59.9	30.4-154		%Rec	1	9/4/2020 8:52:57 AM	54895
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/4/2020 11:24:36 PM	54867
Surr: BFB	95.8	75.3-105		%Rec	1	9/4/2020 11:24:36 PM	54867
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	9/4/2020 11:24:36 PM	54867
Toluene	ND	0.048		mg/Kg	1	9/4/2020 11:24:36 PM	54867
Ethylbenzene	ND	0.048		mg/Kg	1	9/4/2020 11:24:36 PM	54867
Xylenes, Total	ND	0.095		mg/Kg	1	9/4/2020 11:24:36 PM	54867
Surr: 4-Bromofluorobenzene	99.9	80-120		%Rec	1	9/4/2020 11:24:36 PM	54867

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2009001**

11-Sep-20

Client: Talon Artesia

Project: Devon West Shugart 30 Fed 001 W. Shugart 30

Sample ID: **MB-54979**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **54979**	RunNo: **71656**							
Prep Date: **9/5/2020**	Analysis Date: **9/5/2020**	SeqNo: **2505307**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-54979**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **54979**	RunNo: **71656**							
Prep Date: **9/5/2020**	Analysis Date: **9/5/2020**	SeqNo: **2505308**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.9	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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2009001**

11-Sep-20

Client: Talon Artesia

Project: Devon West Shugart 30 Fed 001 W. Shugart 30

Sample ID: **2009001-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-1 0-1'**	Batch ID: **54895**	RunNo: **71591**
Prep Date: **9/2/2020**	Analysis Date: **9/4/2020**	SeqNo: **2503496** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	49.80	6.062	71.5	47.4	136			
Surr: DNOP	2.9		4.980		57.7	30.4	154			

Sample ID: **2009001-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-1 0-1'**	Batch ID: **54895**	RunNo: **71591**
Prep Date: **9/2/2020**	Analysis Date: **9/4/2020**	SeqNo: **2503497** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.4	46.77	6.062	80.8	47.4	136	5.06	43.4	
Surr: DNOP	2.3		4.677		50.2	30.4	154	0	0	

Sample ID: **LCS-54895**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **54895**	RunNo: **71591**
Prep Date: **9/2/2020**	Analysis Date: **9/4/2020**	SeqNo: **2503519** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	81.6	70	130			
Surr: DNOP	3.3		5.000		65.6	30.4	154			

Sample ID: **MB-54895**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **54895**	RunNo: **71591**
Prep Date: **9/2/2020**	Analysis Date: **9/4/2020**	SeqNo: **2503523** 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	7.0		10.00		69.6	30.4	154			

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2009001**

11-Sep-20

Client: Talon Artesia

Project: Devon West Shugart 30 Fed 001 W. Shugart 30

Sample ID: **2009001-002ams** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **S-1 2'** Batch ID: **54867** RunNo: **71646**

Prep Date: **9/1/2020** Analysis Date: **9/4/2020** SeqNo: **2504630** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	83.3	61.3	114			
Surr: BFB	1000		1000		105	75.3	105			

Sample ID: **2009001-002amsd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **S-1 2'** Batch ID: **54867** RunNo: **71646**

Prep Date: **9/1/2020** Analysis Date: **9/4/2020** SeqNo: **2504631** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.9	24.30	0	83.1	61.3	114	3.15	20	
Surr: BFB	1000		971.8		104	75.3	105	0	0	

Sample ID: **lcs-54867** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSS** Batch ID: **54867** RunNo: **71646**

Prep Date: **9/1/2020** Analysis Date: **9/4/2020** SeqNo: **2504664** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.3	72.5	106			
Surr: BFB	1100		1000		109	75.3	105			S

Sample ID: **mb-54867** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **PBS** Batch ID: **54867** RunNo: **71646**

Prep Date: **9/1/2020** Analysis Date: **9/4/2020** SeqNo: **2504666** 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	960		1000		95.8	75.3	105			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2009001**

11-Sep-20

Client: Talon Artesia

Project: Devon West Shugart 30 Fed 001 W. Shugart 30

Sample ID: **2009001-001ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **S-1 0-1'** Batch ID: **54867** RunNo: **71646**

Prep Date: **9/1/2020** Analysis Date: **9/4/2020** SeqNo: **2504684** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	0.9950	0	86.8	76.3	120			
Toluene	0.88	0.050	0.9950	0.01090	87.8	78.5	120			
Ethylbenzene	0.91	0.050	0.9950	0	91.0	78.1	124			
Xylenes, Total	2.7	0.10	2.985	0	91.5	79.3	125			
Surr: 4-Bromofluorobenzene	0.99		0.9950		99.4	80	120			

Sample ID: **2009001-001amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **S-1 0-1'** Batch ID: **54867** RunNo: **71646**

Prep Date: **9/1/2020** Analysis Date: **9/4/2020** SeqNo: **2504685** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.024	0.9775	0	85.5	76.3	120	3.27	20	
Toluene	0.86	0.049	0.9775	0.01090	86.6	78.5	120	3.15	20	
Ethylbenzene	0.87	0.049	0.9775	0	89.4	78.1	124	3.46	20	
Xylenes, Total	2.6	0.098	2.933	0	90.1	79.3	125	3.34	20	
Surr: 4-Bromofluorobenzene	1.0		0.9775		102	80	120	0	0	

Sample ID: **LCS-54867** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **54867** RunNo: **71646**

Prep Date: **9/1/2020** Analysis Date: **9/4/2020** SeqNo: **2504717** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.6	80	120			
Toluene	0.93	0.050	1.000	0	92.8	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.3	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID: **mb-54867** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **54867** RunNo: **71646**

Prep Date: **9/1/2020** Analysis Date: **9/4/2020** SeqNo: **2504719** 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			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Talon Artesia Work Order Number: 2009001 RcptNo: 1

Received By: **Cheyenne Cason** 9/1/2020 8:00:00 AM

Completed By: **Juan Rojas** 9/1/2020 8:10:24 AM

Reviewed By: EM 9/1/20

Chain of Custody

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

Log In

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

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: CM 9/1/20

Special Handling (if applicable)

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

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

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.7	Good				

Chain-of-Custody Record

Client: Talon LPE

408 W Texas St

Mailing Address: Artesia, NM 88210

Phone #: 575-441-0980

email or Fax#: (575) 746-8905

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 4-Day
☑ Standard ☐ Rush

Project Name: Devon West Shugart 30 Fed #001 (W. Shugart 30)

Project #: 700794.358.01

Project Manager: Rebecca Pons

Sampler: Roy Bell

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 4.6 +0.1 = 4.7c

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2009001
8/31/20	10:30	soil	SH 0-1'	Jar	Ice/Cool	-001
	10:40		S-1 2'			-002
	10:50		S-2 0-1'			-003
	11:00		S-2 2'			-004
	11:20		NBG			-005
	11:30		SH 0-1'			-006
	11:35		S-4 2'			-007
	11:36		EBG			-008
	11:40		S-3 0-1'			-009
	11:46		S-3 2'			-010
	11:50		WBG			-011
	11:55		SBG			-012

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
✓	✓					✓			
✓	✓					✓			
✓	✓					✓			
✓	✓					✓			
✓	✓					✓			
✓	✓					✓			
✓	✓					✓			
✓	✓					✓			
✓	✓					✓			
✓	✓					✓			
✓	✓					✓			
✓	✓					✓			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
8/31/20	1330				8/31/20	1330
8/31/20	1940		CM	courier	9/1/20	0820

Remarks: Please cc the following via email:
Dadkins@talonlpe.com
Rpons@talonlpe.com
Bsinclair@talonlpe.com
Bill Devon Direct
W/O #

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

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

December 16, 2020

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

RE: W Shugart 30 OrderNo.: 2012358

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/8/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2012358**
Date Reported: **12/16/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia
Client Sample ID: SBGA 0-1'
Project: W Shugart 30
Collection Date: 12/4/2020 3:30:00 PM
Lab ID: 2012358-001 **Matrix:** SOIL **Received Date:** 12/8/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	59		mg/Kg	20	12/13/2020 12:09:40 AM	56952
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/9/2020 5:19:30 PM	56869
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/9/2020 5:19:30 PM	56869
Surr: DNOP	122	30.4-154		%Rec	1	12/9/2020 5:19:30 PM	56869
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/10/2020 11:58:41 PM	56865
Surr: BFB	87.4	75.3-105		%Rec	1	12/10/2020 11:58:41 PM	56865
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	12/10/2020 11:58:41 PM	56865
Toluene	ND	0.047		mg/Kg	1	12/10/2020 11:58:41 PM	56865
Ethylbenzene	ND	0.047		mg/Kg	1	12/10/2020 11:58:41 PM	56865
Xylenes, Total	ND	0.094		mg/Kg	1	12/10/2020 11:58:41 PM	56865
Surr: 4-Bromofluorobenzene	86.9	80-120		%Rec	1	12/10/2020 11:58:41 PM	56865

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2012358**

16-Dec-20

Client: Talon Artesia

Project: W Shugart 30

Sample ID: **MB-56952**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **56952**	RunNo: **73969**							
Prep Date: **12/12/2020**	Analysis Date: **12/12/2020**	SeqNo: **2608934**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-56952**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **56952**	RunNo: **73969**							
Prep Date: **12/12/2020**	Analysis Date: **12/12/2020**	SeqNo: **2608935**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.8	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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2012358**

16-Dec-20

Client: Talon Artesia
Project: W Shugart 30

Sample ID: **2012358-001AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SBGA 0-1'** Batch ID: **56869** RunNo: **73877**
Prep Date: **12/8/2020** Analysis Date: **12/9/2020** SeqNo: **2606311** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	66	9.9	49.46	0	133	15	184			
Surr: DNOP	8.0		4.946		161	30.4	154			S

Sample ID: **2012358-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SBGA 0-1'** Batch ID: **56869** RunNo: **73877**
Prep Date: **12/8/2020** Analysis Date: **12/9/2020** SeqNo: **2606312** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	8.5	42.66	0	118	15	184	26.5	23.9	R
Surr: DNOP	6.3		4.266		148	30.4	154	0	0	

Sample ID: **LCS-56869** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **56869** RunNo: **73877**
Prep Date: **12/8/2020** Analysis Date: **12/9/2020** SeqNo: **2606332** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	10	50.00	0	114	70	130			
Surr: DNOP	6.9		5.000		138	30.4	154			

Sample ID: **MB-56869** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **56869** RunNo: **73877**
Prep Date: **12/8/2020** Analysis Date: **12/9/2020** SeqNo: **2606333** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		106	30.4	154			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2012358**

16-Dec-20

Client: Talon Artesia
Project: W Shugart 30

Sample ID: **2012358-001ams** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SBGA 0-1'** Batch ID: **56865** RunNo: **73943**
Prep Date: **12/8/2020** Analysis Date: **12/11/2020** SeqNo: **2607641** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.7	23.36	0	94.1	61.3	114			
Surr: BFB	930		934.6		99.3	75.3	105			

Sample ID: **2012358-001amsd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SBGA 0-1'** Batch ID: **56865** RunNo: **73943**
Prep Date: **12/8/2020** Analysis Date: **12/11/2020** SeqNo: **2607643** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	4.8	23.81	0	81.5	61.3	114	12.5	20	
Surr: BFB	930		952.4		98.0	75.3	105	0	0	

Sample ID: **lcs-56865** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **56865** RunNo: **73943**
Prep Date: **12/8/2020** Analysis Date: **12/10/2020** SeqNo: **2607657** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	86.8	72.5	106			
Surr: BFB	980		1000		98.0	75.3	105			

Sample ID: **mb-56865** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **56865** RunNo: **73943**
Prep Date: **12/8/2020** Analysis Date: **12/10/2020** SeqNo: **2607659** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	870		1000		87.2	75.3	105			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2012358**

16-Dec-20

Client: Talon Artesia

Project: W Shugart 30

Sample ID: **LCS-56865** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **56865** RunNo: **73943**

Prep Date: **12/8/2020** Analysis Date: **12/10/2020** SeqNo: **2607706** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.4	80	120			
Toluene	0.95	0.050	1.000	0	94.7	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.9	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.6	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		88.9	80	120			

Sample ID: **mb-56865** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **56865** RunNo: **73943**

Prep Date: **12/8/2020** Analysis Date: **12/10/2020** SeqNo: **2607708** 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	0.86		1.000		86.5	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **Talon Artesia** Work Order Number: **2012358** RcptNo: 1

Received By: **Isaiah Ortiz** **12/8/2020 7:45:00 AM** I-OK

Completed By: **Desiree Dominguez** **12/8/2020 9:27:39 AM** DD

Reviewed By: SGL 12/8/20

Chain of Custody

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

Log In

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

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

Adjusted? _____

Checked by: JR 12/8/20

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.1	Good	Yes			

Chain-of-Custody Record

Client: Talon
on file
Mailing Address:

Phone #: 575-441-0980
email or Fax#:
QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☐ Standard ☑ Rush 24 hour
Project Name:
W Shugart 30
Project #:
200794.358.01
Project Manager:
Rebecca Pons
Sampler: B. Tittel
On Ice: ☑ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 0.1 °C ±0 (°C)

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2012358
12/4	3:30		SBH-A 0-1'	Jar	Ice	-001

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
✓	✓					✓			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
12/7	1210	Rebecca Pons			12/7/20	1210
12/8/20	1900					

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
			I-Q Colvin		12/8/20	0745

Remarks: Bill Direct - Devon Energy
RPons@talonLPE.com
Seal intact TO 12/8/20

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

District I
1625 N. French Dr., Hobbs, NM 88240
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 164276

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 164276
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	Site will need to meet the requirements of 19.15.29.13 NMAC at time of plugging and abandonment.	12/9/2022