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 Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NRM2007248990
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: **Enterprise Field Services, LLC**	OGRID: **151618**
Contact Name: **Thomas Long**	Contact Telephone: **505-599-2286**
Contact email:**tjlong@eprod.com**	Incident # *(assigned by OCD)*: **NRM2007248990**
Contact mailing address: **614 Reilly Ave, Farmington, NM 87401**	

Location of Release Source

Latitude **36.314778** Longitude **-107.108354** *(NAD 83 in decimal degrees to 5 decimal places)*

Site Name **Lateral 2C-60**	Site Type **Natural Gas Gathering Pipeline**
Date Release Discovered: **02/27/2020**	Serial Number *(if applicable)*: **N/A**

Unit Letter	Section	Township	Range	County
C	**13**	**24N**	**3W**	**Rio Arriba**

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name*: **Roland Silva**)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☒ Condensate	Volume Released (bbls): **5-7 BBLs**	Volume Recovered (bbls): **None**
☒ Natural Gas	Volume Released (Mcf): **< 1 MCF**	Volume Recovered (Mcf): **None**
☐ Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release: On February 27, 2020, Enterprise discovered a release of condensate from a riser on the Lateral 2C-60 pipeline. No washes were affected. An area of approximately 2 feet in diameter was impacted by released fluids. Remediation began on March 4, 2020. Enterprise determined the release reportable per NMOCD regulation on March 5, 2020, due to the volume of impacted subsurface soil. Remediation was completed on April 2, 2020. The final excavation measured approximately 20 feet long by 20 feet wide by 10 feet deep. Approximately 231 cubic yards of hydrocarbon impacted soil was excavated and transported to a New Mexico Oil Conservation Division approved land farm facility. A third party closure report is included with this "Final." C-141.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NRM2007248990
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Jon E. Fields Title: Director, Environmental

Signature: Jon E. Fields Date: 9/23/2020

email: jefields@eprod.com Telephone: (713) 381-6684

OCD Only

Received by: Ramona Narcus Date: 03/12/2020

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

Closure Approved by: Karen Collins Date: 04/19/2021

Printed Name: Karen Collins Title: Environmental Scientist & Specialist

Lateral 2C-60 Pipeline
Release Closure Report

Unit Letter C, Section 13, Township 24 North, Range 3 West
Rio Arriba County, New Mexico

July 28, 2020

Prepared for:
Enterprise Field Services, LLC
614 Reilly Avenue
Farmington, New Mexico 87401

Prepared by:
Rule Engineering, LLC
501 Airport Drive, Suite 205
Farmington, New Mexico 87401

Rule Engineering, LLC
Solutions to Regulations for Industry

Enterprise Field Services, LLC
Lateral 2C-60 Pipeline
Release Closure Report

Prepared for:

Enterprise Field Services, LLC
614 Reilly Avenue
Farmington, New Mexico 87401

Prepared by:

Rule Engineering, LLC
501 Airport Drive, Suite 205
Farmington, New Mexico 87401

Heather M. Woods

Heather M. Woods, P.G., Area Manager

July 28, 2020

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3.0 Field Activities 2
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Figure 2 Aerial Site Map
Figure 3 Sample Location Map

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Appendix B Executed C-138 Soil Waste Acceptance Form
Appendix C Photograph Log
Appendix D Correspondence
Appendix E Analytical Laboratory Report

1.0 Introduction

This closure report summarizes the remedial activities undertaken at the Lateral 2C-60 Pipeline release site to remediate potential hydrocarbon impact according to closure criteria as outlined in 19.15.29 of the New Mexico Authority Code (NMAC).

1.1 Release Summary

Operator	Enterprise Field Services, LLC (Enterprise)		
Site Name	Lateral 2C-60 Pipeline Release		
Site Location Description	Unit Letter C, Section 13, Township 24 North, Range 3 West (N36.314778, W107.108354)		
Land Jurisdiction	Private		
Discovery Date	February 27, 2020		
Release Source	Malfunction of riser valve		
Substance(s) Released	Pipeline liquids		
Volume of Soil Transported for Disposal/Remediation	Approximately 231 cubic yards soil and 35 barrels of hydrovac cuttings	**Remedial Excavation Dimensions**	Approximately 20 feet by 20 feet and 10 feet deep
Disposal Facility	Envirotech Landfarm (Permit NM-01-0011)		

A topographic map of the location reproduced from the United States Geological Society quadrangle map of the area is included as Figure 1 and an aerial site map is included as Figure 2.

2.0 Closure Criteria Determination

The remediation standards for the release location are determined per 19.15.29 NMAC and are selected by depth to groundwater with a concentration of less than 10,000 milligrams per kilogram (mg/kg) total dissolved solids (TDS) and several additional factors outlined in Paragraph (4) of Subsection (C) of 19.15.29.12 NMAC. A summary of the determination and supporting documents are included in Appendix A.

Closure criteria for the soils impacted at the release location are determined by the *"less than or equal to 50 feet"* category of Table 1, 19.15.29.12 NMAC. These remedial standards are as follows:

- 10 mg/kg benzene per USEPA Methods 8021B or 8260B.
- 50 mg/kg total benzene, toluene, ethylbenzene, and xylenes (BTEX) per USEPA Method 8021B or 8260B;

Rule

- 100 mg/kg total petroleum hydrocarbons (TPH) as gasoline range organics (GRO), diesel range organics (DRO), and mineral range organics (MRO) per USEPA Method 8015M; and
- 600 milligrams per kilogram (mg/kg) chloride per United States Environmental Protection Agency (USEPA) Methods 300.0 or SM 4500-Cl B.

3.0 Field Activities

On March 4, 2020, Enterprise initiated remediation activities at the location. O.F.T. Construction, Inc. provided heavy equipment operation and repair support. Rule Engineering, LLC (Rule) personnel provided excavation guidance and collected confirmation samples from the resultant excavation. The final repair excavation was measured approximately 20 feet by 20 feet by 10 feet in depth. Approximately 231 cubic yards of soil and 35 barrels of hydrovac cuttings were transported to the Envirotech Landfarm near Bloomfield, New Mexico for disposal/remediation. The repair excavation was backfilled with clean, imported material and laboratory confirmed stockpiled overburden.

A depiction of the excavation with sample locations is included as Figure 3. A copy of the executed C-138 Solid Waste Acceptance Form is included in Appendix B. A photograph log is included in Appendix C. A copy of regulatory correspondence is included in Appendix D.

4.0 Confirmation Soil Sampling

Rule collected confirmation excavation soil samples (SC-1 through SC-5) from the sidewalls and base of the excavation. Each confirmation soil sample is a representative composite comprised of five equivalent aliquots of soil collected from the sampled area. Additionally, two composite samples (SP-1 and SP-2) were collected from stockpiles of overburden material removed from the excavation walk-out. Excavation confirmation sample locations are shown on Figure 3.

Samples were field screened for volatile organic compounds (VOCs). Field screening for VOC vapors was conducted with a photoionization detector (PID). Before beginning field screening, the PID was calibrated with 100 parts per million (ppm) isobutylene gas. Soil samples collected for laboratory analysis were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico. All samples were analyzed for BTEX per USEPA Method 8021B and TPH (GRO/DRO/MRO) per USEPA 8015D and chlorides per USEPA Method 300.0.

5.0 Laboratory Analytical Results

The laboratory analytical results were compared to the remediation standards for the site. Laboratory analytical results for excavation confirmation samples SC-1 through SC-5 and stockpile confirmation samples SP-1 and SP-2 reported benzene, total BTEX, total TPH (GRO/DRO/MRO), and chloride concentrations below the laboratory reporting limits except stockpile sample SP-2. A total TPH concentration reported at 10 mg/kg for stockpile sample SP-2, which is below the remediation standard of 100 mg/kg. Laboratory reporting limits are below each respective remediation standard.

Laboratory analytical results are summarized in Table 1. Analytical laboratory reports are included in Appendix E.

6.0 Reclamation and Revegetation

The excavation was backfilled with clean, imported material and laboratory confirmed stockpiled overburden. The area was contoured as near as possible to original grade and re-seeding will be performed as requested by the private landowner.

7.0 Recommendation

Hydrocarbon impacted soils associated with the Lateral 2C-60 pipeline release have been excavated and transported to an approved landfarm for disposal/remediation. Laboratory analytical results for the confirmation samples collected from the excavation report benzene, total BTEX, and TPH concentrations below the remediation standards set forth for the release. Therefore, no further work is recommended.

8.0 Closure and Limitations

This report has been prepared for the exclusive use of Enterprise and is subject to the terms, conditions, and limitations stated in Rule's report and Service Agreement with Enterprise. All work has been performed in accordance with generally accepted professional environmental consulting practices. No other warranty is expressed or implied.

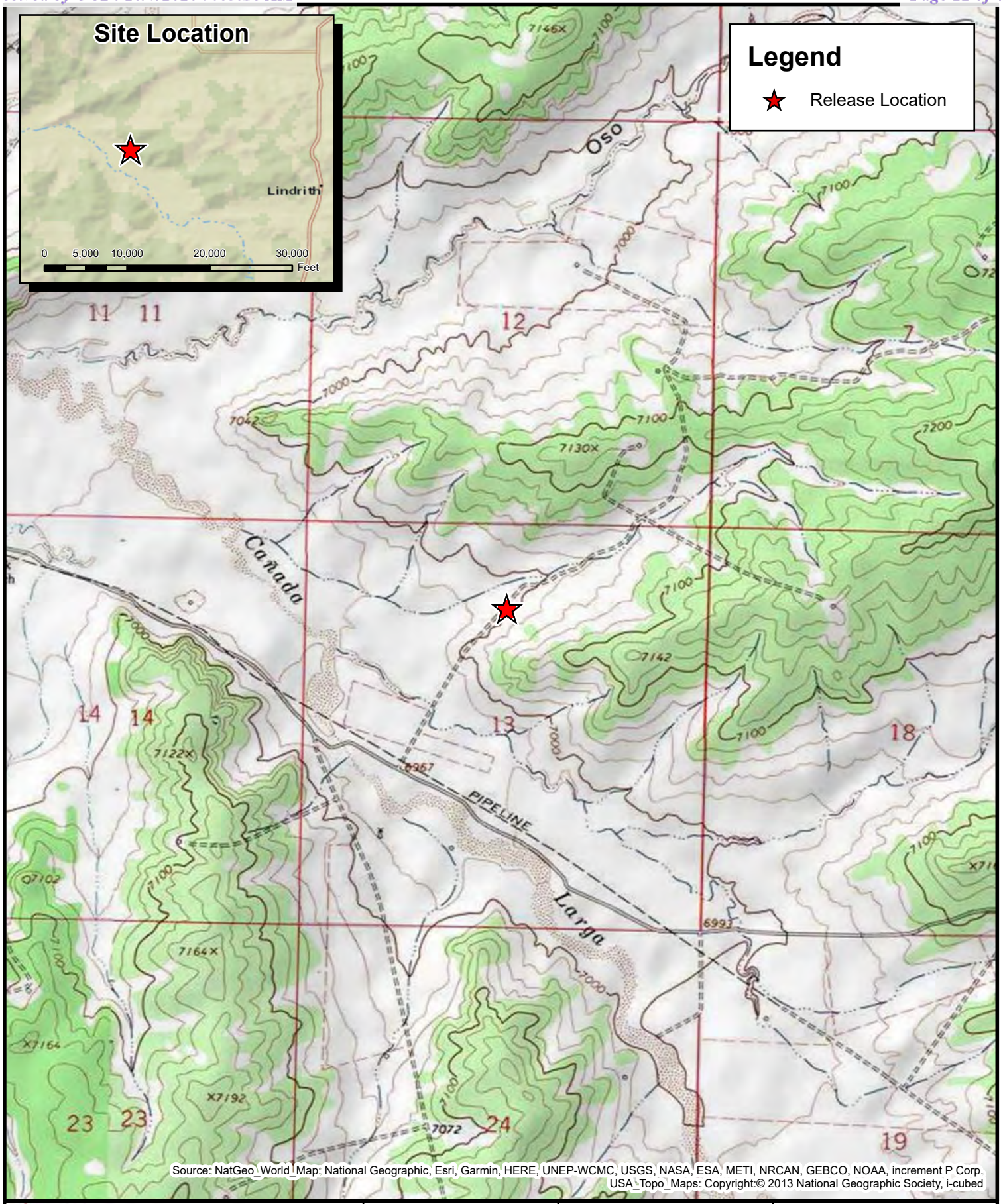
Table

Table 1. Summary of Laboratory Analytical Results
Enterprise Field Services
Lateral 2C-60 Pipeline Release
Rio Arriba County, New Mexico

Sample Name	Date	Approximate Sample Depth (ft bgs)	Sample Location	Laboratory Analytical Results									
				Benzene (mg/kg)	Toluene (mg/kg)	Ethylben-zene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH as GRO (mg/kg)	TPH as DRO (mg/kg)	TPH as MRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
Remediation Standard*				**10**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**NE**	**100**	**600**
Excavation Confirmation Samples													
SC-1	4/2/2020	0 - 10	North Wall	<0.017	<0.033	<0.033	<0.066	ND	<3.3	<10	<50	ND	<60
SC-2	4/2/2020	0 - 10	East Wall	<0.020	<0.040	<0.040	<0.079	ND	<4.0	<8.8	<44	ND	<60
SC-3	4/2/2020	0 - 10	South Wall	<0.019	<0.037	<0.037	<0.075	ND	<3.7	<9.0	<45	ND	<59
SC-4	4/2/2020	0 - 10	West Wall	<0.019	<0.038	<0.038	<0.075	ND	<3.8	<9.7	<49	ND	<60
SC-5	4/2/2020	10	Base	<0.019	<0.039	<0.039	<0.077	ND	<3.9	<9.9	<50	ND	<60
Stockpile Confirmation Samples													
SP-1	4/2/2020	--	Stockpile	<0.020	<0.040	<0.040	<0.080	ND	<4.0	<9.7	<48	ND	<60
SP-2	4/2/2020	--	Stockpile	<0.021	<0.041	<0.041	<0.083	ND	<4.1	10	<50	10	<60

Notes:
ft bgs - feet below grade surface
mg/kg - milligrams per kilogram
NE - not established
ND - not detected above laboratory reporting limits
BTEX - total benzene, toluene, ethylbenzene, and xylenes
TPH - total petroleum hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
MRO - mineral oil range organics
*Per Table 1 of 19.15.29.12 NMAC, based on category *"less than or equal to 50 feet" depth* to groundwater

Figures



Rule Engineering, LLC
Solutions to Regulations for Industry
0 500 1,000 2,000 3,000 Feet
Otero Store Quadrangle
1:20,000

Enterprise Products

C-13-T24N-R3W
N36.314778, W107.108354
Rio Arriba County, New Mexico

Figure 1
Topographic Site Map
Lateral 2C-60

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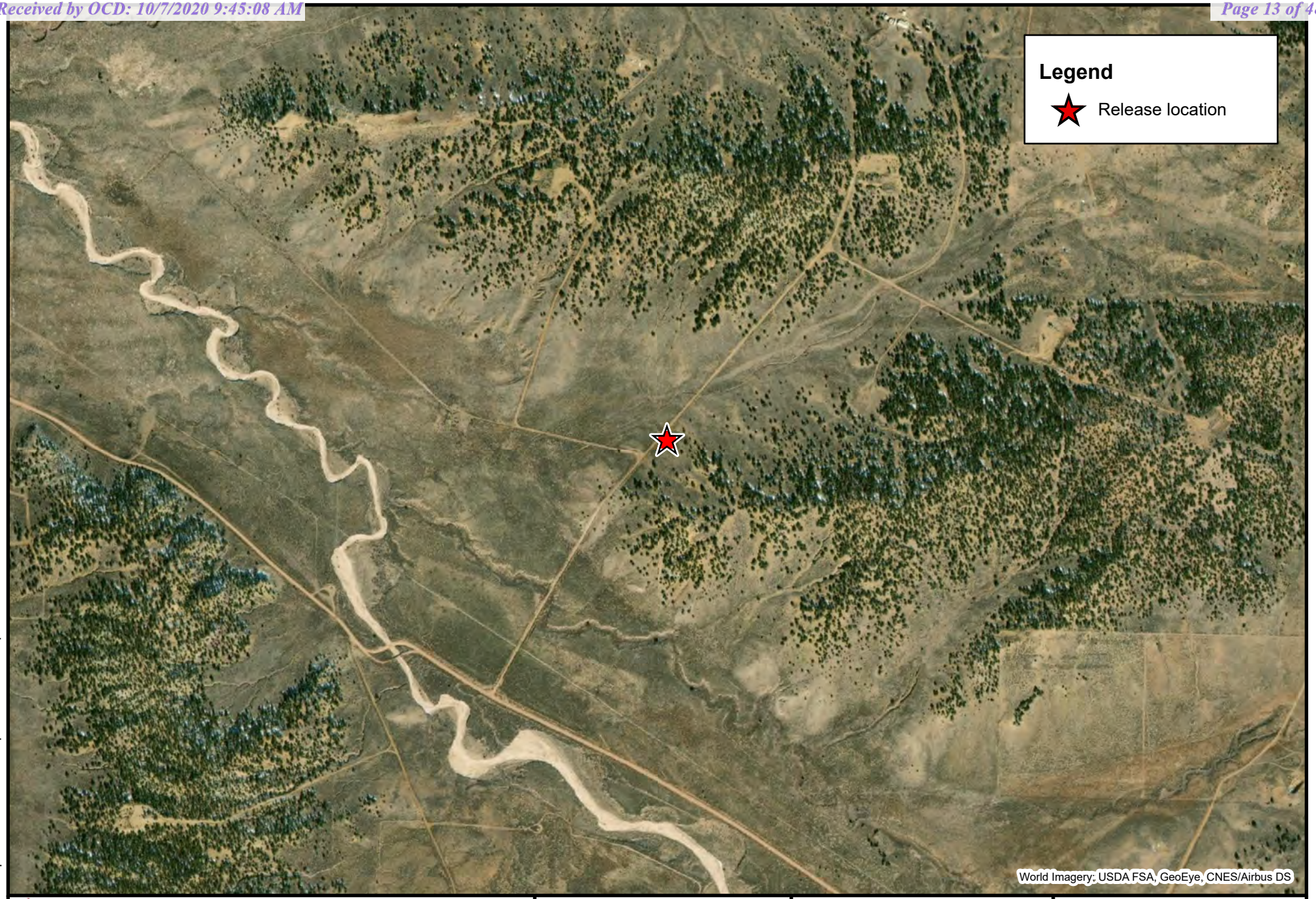
7/22/2020



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Solutions to Regulations for Industry

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Enterprise Products

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N36.314778, W107.108354
Rio Arriba County, NM

Figure 2
Aerial Site Map
Lateral 2C-60

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7/22/2020

Rule Engineering, LLC
Solutions to Regulations for Industry

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N36.314778, W107.108354
Rio Arriba County, NM

Figure 3
Sample Location Map
Lateral 2C-60

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7/23/2020

Appendix A

Closure Criteria Determination and Documentation

Closure Criteria Determination
Lateral 2C-60 Pipeline Release

A review of the release site characteristics based on Paragraph (4) of Subsection (C) of 19.15.29 NMAC, concluded that site closure criteria are determined by the ***"less than or equal to 50 feet"*** category of Table 1.

The release site characteristics are as follows:

- Depth to groundwater at the site is anticipated to be less than 50 feet below ground surface based on the area's geology and geomorphology.
    - o A search of the New Mexico Office of the State Engineer (NMOSE) Water Rights Reporting System reported six points of diversion (POD) within Sections 11, 12, 13, 14, 23 and 24 of Township 30 North and Range 3 West and eight PODs within Sections 7, 18, and 19 of Township 30 North Range 2 West. Of these PODs, only four are within a 1-mile radius of the site and report depths to water ranging from 10 feet to 140 feet below ground surface.
    - o A search of the New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) online imaging database yielded no cathodic well records from the same Sections.

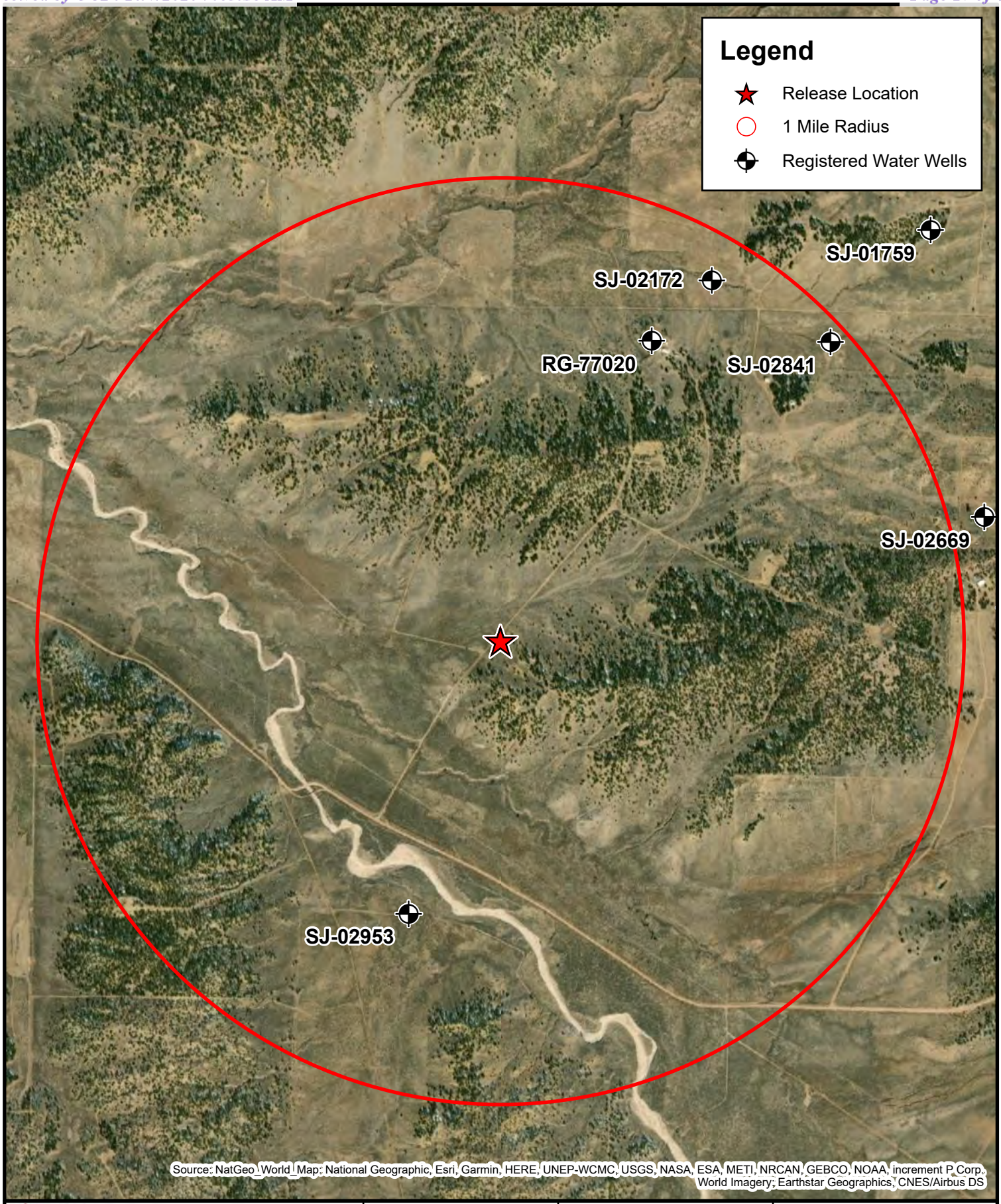
The location **is** within:

- 300 feet of any continuously flowing watercourse or any other significant water course. *An ephemeral tributary wash to Cañada Larga is located approximately 230 feet northwest of the release site*.
- 300 feet of a wetland. *The ephemeral wash 230 feet northwest of the release site is listed as "Riverine" wetlands on the U.S. Fish and Wildlife Service National Wetlands Inventory online map.*

The location is **not** within:

- ½ mile of known water sources, including private and domestic water sources.
- 200 feet of any lakebed, sinkhole or playa lake.
- 300 feet of an occupied permanent residence, school, hospital, institution or church.
- 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
- incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
- 1,000 feet of any fresh water well or spring.
- the area overlying a subsurface mine.
- an unstable area.
- 100-year floodplain.

Rule



Rule Engineering, LLC
Solutions to Regulations for Industry

0 500 1,000 2,000 3,000 Feet
1:17,400

Enterprise Products

C-13-T24N-R3W
N36.314778, W107.108354
Rio Arriba County, NM

Registered Water Well and Cathodic Well Map
Lateral 2C-60

Document Path: M:\27 GIS CAD\Enterprise Products\Enterprise Products.aprx

7/23/2020

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

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
RG 77020		RA	1	2	4	12	24N	03W	311252	4021967*	270	140	130
SJ 02172	SJ	RA	4	4	2	12	24N	03W	311460	4022170*	340	140	200
SJ 02953	SJ	RA	1	4	3	13	24N	03W	310404	4019967*	70		
SJ 02958	SJ	RA	2	3	4	24	24N	03W	310971	4018350*	168		
SJ 04362 POD1	SJ	SJ	1	3	3	14	24N	03W	308344	4020092	400		
SJ 04397 POD1	SJ	RA	1	4	2	24	24N	03W	311179	4019102	450		

Average Depth to Water: **140 feet**
Minimum Depth: **140 feet**
Maximum Depth: **140 feet**

Record Count: 6

PLSS Search:

Section(s): 11, 12, 13, 14, 23, 24 **Township:** 24N **Range:** 03W

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

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

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
RG 67667		RA	2	1	3	07	24N	02W	311854	4021961*	245	100	145
SJ 01191	SJ	RA	1	1	2	07	24N	02W	312432	4022747*	320	190	130
SJ 01759	SJ	RA	2	4	1	07	24N	02W	312222	4022355*	355	100	255
SJ 02669	SJ	RA	3	3	4	07	24N	02W	312408	4021340*	986	776	210
SJ 02841	SJ	RA	2	1	3	07	24N	02W	311854	4021961*	245	100	145
SJ 02957	SJ	RA	4	4	4	19	24N	02W	312943	4018113*	30		
SJ 02959	SJ	RA	3	3	4	19	24N	02W	312341	4018120*	60		
SJ 04147 POD1	SJ	RA			2	07	24N	02W	312868	4022229	350	260	90

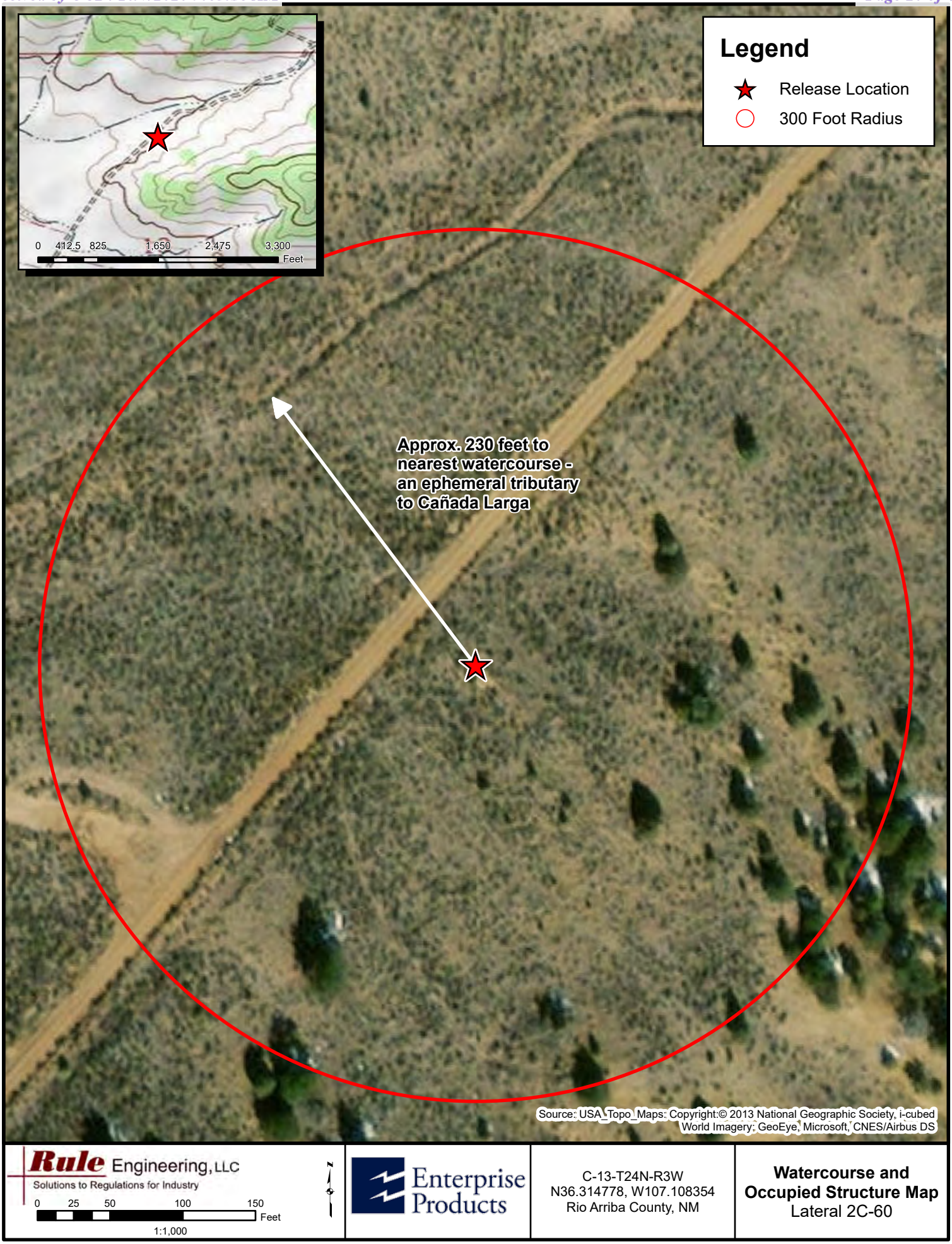
Average Depth to Water: **254 feet**
Minimum Depth: **100 feet**
Maximum Depth: **776 feet**

Record Count: 8

PLSS Search:

Section(s): 7, 18, 19 **Township:** 24N **Range:** 02W

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



Rule Engineering, LLC
Solutions to Regulations for Industry
0 25 50 100 150
Feet
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Enterprise Products

C-13-T24N-R3W
N36.314778, W107.108354
Rio Arriba County, NM

Watercourse and Occupied Structure Map
Lateral 2C-60

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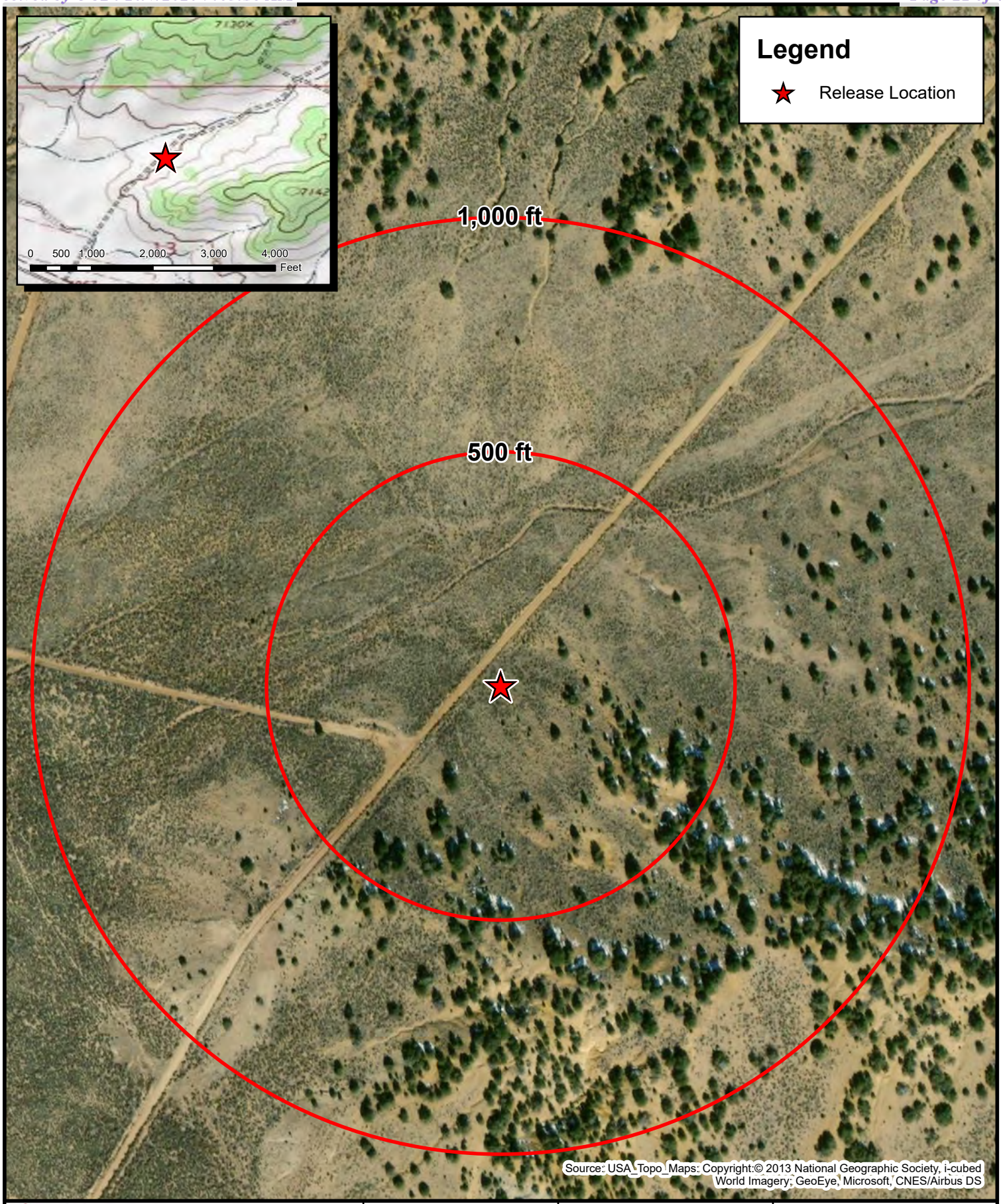
7/23/2020



Rule Engineering, LLC
Solutions to Regulations for Industry

0 90 180 360 540
Feet
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Enterprise Products

C-13-T24N-R3W
N36.314778, W107.108354
Rio Arriba County, NM

Water Wells and Natural Springs Map
Lateral 2C-60

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7/23/2020

U.S. Fish and Wildlife Service
National Wetlands Inventory

Lateral 2C-60 Wetlands Map

July 22, 2020

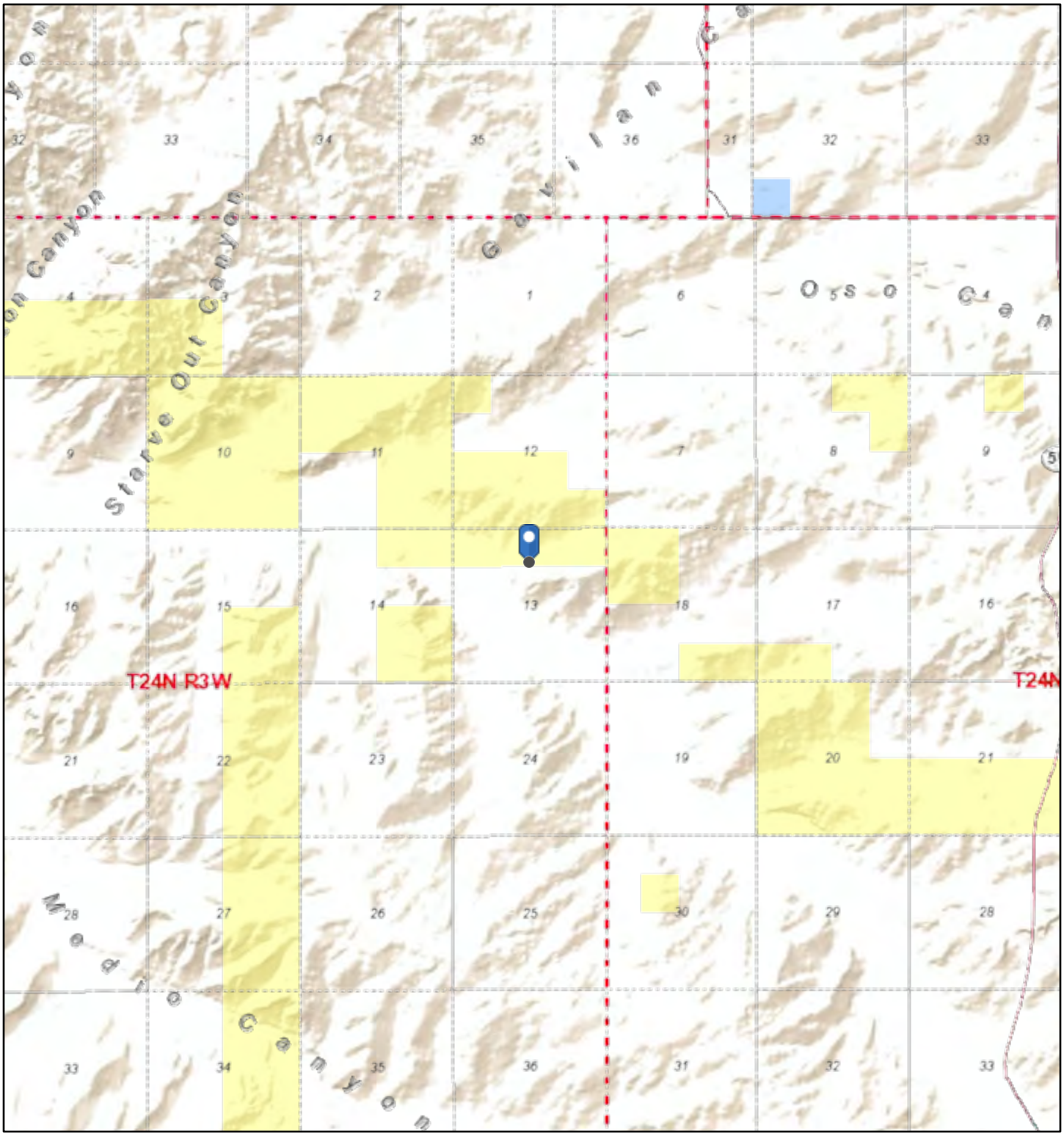
Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

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

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Lateral 2C-60 Area Mines



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1:72,224

0 0.5 1 2 mi

0 0.75 1.5 3 km

U.S. Bureau of Land Management - New Mexico State Office, Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

EMNRD MMD GIS Coordinator

New Energy, Minerals and Natural Resources Department (http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795)

National Flood Hazard Layer FIRMette

FEMA

107°6'49" W 36°19'7" N

107°6'11" W 36°18'38" N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Legend

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

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

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

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/22/2020 at 7:29 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Appendix B

Executed C-138 Solid Waste Acceptance Form

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-138
Revised 08/01/11

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

97057-1094

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

Invoicing Information
PayKeyRB21200

2. Originating Site:
Lateral 2C-60

3. Location of Material (Street Address, City, State or ULSTR):
UL C Section 13 T24N R3W; 36.34683 -107.108370

Feb - April 2020

4. Source and Description of Waste:
Source: Sediment/Soil from remediation activities associated with natural gas pipeline release.
Description: Soil associated with remediation activities.
Estimated Volume 5 yd³ / bbls (circled) Known Volume (to be entered by the operator at the end of the haul) 231/35 yd³ / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long Thomas Long , representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

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

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

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

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long Thomas Long 2-28-2020, representative for Enterprise Products Operating authorizes Envirotech, Inc. to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

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

5. Transporter: Riley Industrial/Sierra Oil Field Services and subcontractors

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: **Envirotech, Inc. Soil Remediation Facility * Permit #: NM01-0011**
Address of Facility: **Hill Top, NM**
Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:
☒ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Crabtree TITLE: Enviro Manager DATE: 2/28/2020

SIGNATURE: _____ TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

Appendix C

Photograph Log

Photograph Log
Lateral 2C-60 Pipeline Release
Enterprise Field Services, LLC

Photograph #1	
Client: Enterprise	
Site Name: Lateral 2C-60 Pipeline Release	
Date Photo Taken: April 2, 2020	
Release Location: N36.314778, W107.108354 C-13-24N-3W Rio Arriba County, NM	
Photo Taken by: Heather Woods	Description: Facing southeast, view of the final excavation extents.

Photograph #2	
Client: Enterprise	
Site Name: Lateral 2C-60 Pipeline Release	
Date Photo Taken: April 2, 2020	
Release Location: N36.314778, W107.108354 C-13-24N-3W Rio Arriba County, NM	
Photo Taken by: Heather Woods	Description: Facing southwest, view of the final excavation extents.

Photograph Log
Lateral 2C-60 Pipeline Release
Enterprise Field Services, LLC

Photograph #3	
Client: Enterprise	
Site Name: Lateral 2C-60 Pipeline Release	
Date Photo Taken: April 2, 2020	
Release Location: N36.314778, W107.108354 C-13-24N-3W Rio Arriba County, NM	
Photo Taken by: Heather Woods	Description: Facing northeast, view of the final excavation extents.

Photograph #4	
Client: Enterprise	
Site Name: Lateral 2C-60 Pipeline Release	
Date Photo Taken: July 23, 2020	
Release Location: N36.314778, W107.108354 C-13-24N-3W Rio Arriba County, NM	
Photo Taken by: Mason Hawkins	Description: Facing east, view of the reclaimed release area.

Appendix D

Correspondence

From: Smith, Cory, EMNRD
To: Long, Thomas
Subject: RE: Lateral 2C-60 - UL C Section 13 T24N R3W; 36.314778, -107.108354
Date: Thursday, April 2, 2020 1:40:34 PM

Tom,

Thank the notice.. if you can please start including the incident # associated with the releases in the notification that would be extremely helpful.

One it tell me that you already submitted an initial C-141, and two it allows me to quickly pull up the site information and see the status and also to document that you provided notification if needed.

Thanks,

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Long, Thomas <tjlong@eprod.com>
Sent: Thursday, April 2, 2020 1:10 PM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: [EXT] FW: Lateral 2C-60 - UL C Section 13 T24N R3W; 36.314778, -107.108354

Cory,

The email is a notification that Enterprise will be collecting soil samples for laboratory analysis at the Lateral 2C-60 excavation tomorrow, April 3, 2020 at 10:00 a.m. or today if you allow us to sample without the required notification. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Long, Thomas
Sent: Thursday, March 5, 2020 2:15 PM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: Lateral 2C-60 - UL C Section 13 T24N R3W; 36.314778, -107.108354

Cory,

This email is to notify you that Enterprise had a release of condensate from a riser on the Lateral 2C-60 pipeline on February 27, 2020. At time an area of approximately 2 feet in diameter was impacted by released fluids. No washes were affected. Enterprise initiated remediation yesterday and it was determined today, March 5, 2020 that this release is reportable per NMCOD regulation due to the volume of impacted soil. The release is located at UL C Section 13 T24N R3W; 36.314778, -107.108354. We are continuing remediation. I will keep you informed as to when we will be collecting soil samples for laboratory analysis. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

Appendix E

Analytical Laboratory Report

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

April 06, 2020

Heather Woods
Rule Engineering LLC
501 Airport Dr., Ste 205
Farmington, NM 87401
TEL: (505) 325-1055
FAX

RE: Enterprise Lateral 2C 60 OrderNo.: 2004125

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 7 sample(s) on 4/3/2020 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 **2004125**
Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC
Client Sample ID: SC-1
Project: Enterprise Lateral 2C 60
Collection Date: 4/2/2020 2:25:00 PM
Lab ID: 2004125-001
Matrix: MEOH (SOIL)
Received Date: 4/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	4/3/2020 10:35:48 AM	51532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/3/2020 10:34:25 AM	51531
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/3/2020 10:34:25 AM	51531
Surr: DNOP	81.9	55.1-146		%Rec	1	4/3/2020 10:34:25 AM	51531
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	4/3/2020 9:43:11 AM	G67819
Surr: BFB	96.7	66.6-105		%Rec	1	4/3/2020 9:43:11 AM	G67819
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.017		mg/Kg	1	4/3/2020 9:43:11 AM	R67819
Toluene	ND	0.033		mg/Kg	1	4/3/2020 9:43:11 AM	R67819
Ethylbenzene	ND	0.033		mg/Kg	1	4/3/2020 9:43:11 AM	R67819
Xylenes, Total	ND	0.066		mg/Kg	1	4/3/2020 9:43:11 AM	R67819
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	4/3/2020 9:43:11 AM	R67819

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 **2004125**
Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC
Client Sample ID: SC-2
Project: Enterprise Lateral 2C 60
Collection Date: 4/2/2020 2:30:00 PM
Lab ID: 2004125-002 **Matrix:** MEOH (SOIL) **Received Date:** 4/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	4/3/2020 10:48:10 AM	51532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	4/3/2020 10:56:27 AM	51531
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	4/3/2020 10:56:27 AM	51531
Surr: DNOP	81.2	55.1-146		%Rec	1	4/3/2020 10:56:27 AM	51531
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	4/3/2020 10:06:56 AM	G67819
Surr: BFB	96.6	66.6-105		%Rec	1	4/3/2020 10:06:56 AM	G67819
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.020		mg/Kg	1	4/3/2020 10:06:56 AM	R67819
Toluene	ND	0.040		mg/Kg	1	4/3/2020 10:06:56 AM	R67819
Ethylbenzene	ND	0.040		mg/Kg	1	4/3/2020 10:06:56 AM	R67819
Xylenes, Total	ND	0.079		mg/Kg	1	4/3/2020 10:06:56 AM	R67819
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	4/3/2020 10:06:56 AM	R67819

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 **2004125**
Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC
Client Sample ID: SC-3
Project: Enterprise Lateral 2C 60
Collection Date: 4/2/2020 2:35:00 PM
Lab ID: 2004125-003
Matrix: MEOH (SOIL)
Received Date: 4/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	59		mg/Kg	20	4/3/2020 11:00:30 AM	51532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	4/3/2020 11:18:27 AM	51531
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	4/3/2020 11:18:27 AM	51531
Surr: DNOP	80.4	55.1-146		%Rec	1	4/3/2020 11:18:27 AM	51531
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	4/3/2020 10:30:32 AM	G67819
Surr: BFB	99.4	66.6-105		%Rec	1	4/3/2020 10:30:32 AM	G67819
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.019		mg/Kg	1	4/3/2020 10:30:32 AM	R67819
Toluene	ND	0.037		mg/Kg	1	4/3/2020 10:30:32 AM	R67819
Ethylbenzene	ND	0.037		mg/Kg	1	4/3/2020 10:30:32 AM	R67819
Xylenes, Total	ND	0.075		mg/Kg	1	4/3/2020 10:30:32 AM	R67819
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	4/3/2020 10:30:32 AM	R67819

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 **2004125**
Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC **Client Sample ID:** SC-4
Project: Enterprise Lateral 2C 60 **Collection Date:** 4/2/2020 2:40:00 PM
Lab ID: 2004125-004 **Matrix:** MEOH (SOIL) **Received Date:** 4/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	4/3/2020 11:12:51 AM	51532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/3/2020 9:47:47 AM	51531
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/3/2020 9:47:47 AM	51531
Surr: DNOP	92.2	55.1-146		%Rec	1	4/3/2020 9:47:47 AM	51531
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	4/3/2020 10:54:01 AM	G67819
Surr: BFB	98.2	66.6-105		%Rec	1	4/3/2020 10:54:01 AM	G67819
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.019		mg/Kg	1	4/3/2020 10:54:01 AM	R67819
Toluene	ND	0.038		mg/Kg	1	4/3/2020 10:54:01 AM	R67819
Ethylbenzene	ND	0.038		mg/Kg	1	4/3/2020 10:54:01 AM	R67819
Xylenes, Total	ND	0.075		mg/Kg	1	4/3/2020 10:54:01 AM	R67819
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	4/3/2020 10:54:01 AM	R67819

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 **2004125**
Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC
Client Sample ID: SC-5
Project: Enterprise Lateral 2C 60
Collection Date: 4/2/2020 2:45:00 PM
Lab ID: 2004125-005
Matrix: MEOH (SOIL)
Received Date: 4/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	4/3/2020 11:25:12 AM	51532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/3/2020 10:11:49 AM	51531
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/3/2020 10:11:49 AM	51531
Surr: DNOP	96.0	55.1-146		%Rec	1	4/3/2020 10:11:49 AM	51531
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	4/3/2020 11:17:27 AM	G67819
Surr: BFB	98.7	66.6-105		%Rec	1	4/3/2020 11:17:27 AM	G67819
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.019		mg/Kg	1	4/3/2020 11:17:27 AM	R67819
Toluene	ND	0.039		mg/Kg	1	4/3/2020 11:17:27 AM	R67819
Ethylbenzene	ND	0.039		mg/Kg	1	4/3/2020 11:17:27 AM	R67819
Xylenes, Total	ND	0.077		mg/Kg	1	4/3/2020 11:17:27 AM	R67819
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	4/3/2020 11:17:27 AM	R67819

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 **2004125**
Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC **Client Sample ID:** SP-1
Project: Enterprise Lateral 2C 60 **Collection Date:** 4/2/2020 2:50:00 PM
Lab ID: 2004125-006 **Matrix:** MEOH (SOIL) **Received Date:** 4/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	4/3/2020 11:37:32 AM	51532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/3/2020 10:36:17 AM	51531
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/3/2020 10:36:17 AM	51531
Surr: DNOP	96.0	55.1-146		%Rec	1	4/3/2020 10:36:17 AM	51531
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	4/3/2020 11:40:53 AM	G67819
Surr: BFB	101	66.6-105		%Rec	1	4/3/2020 11:40:53 AM	G67819
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.020		mg/Kg	1	4/3/2020 11:40:53 AM	R67819
Toluene	ND	0.040		mg/Kg	1	4/3/2020 11:40:53 AM	R67819
Ethylbenzene	ND	0.040		mg/Kg	1	4/3/2020 11:40:53 AM	R67819
Xylenes, Total	ND	0.080		mg/Kg	1	4/3/2020 11:40:53 AM	R67819
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	4/3/2020 11:40:53 AM	R67819

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 **2004125**
Date Reported: **4/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC **Client Sample ID:** SP-2
Project: Enterprise Lateral 2C 60 **Collection Date:** 4/2/2020 2:55:00 PM
Lab ID: 2004125-007 **Matrix:** MEOH (SOIL) **Received Date:** 4/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	4/3/2020 11:49:53 AM	51532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	10	10		mg/Kg	1	4/3/2020 11:00:36 AM	51531
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/3/2020 11:00:36 AM	51531
Surr: DNOP	98.0	55.1-146		%Rec	1	4/3/2020 11:00:36 AM	51531
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	4/3/2020 12:04:22 PM	G67819
Surr: BFB	101	66.6-105		%Rec	1	4/3/2020 12:04:22 PM	G67819
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.021		mg/Kg	1	4/3/2020 12:04:22 PM	R67819
Toluene	ND	0.041		mg/Kg	1	4/3/2020 12:04:22 PM	R67819
Ethylbenzene	ND	0.041		mg/Kg	1	4/3/2020 12:04:22 PM	R67819
Xylenes, Total	ND	0.083		mg/Kg	1	4/3/2020 12:04:22 PM	R67819
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	4/3/2020 12:04:22 PM	R67819

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#: **2004125**
06-Apr-20

Client: Rule Engineering LLC
Project: Enterprise Lateral 2C 60

Sample ID: **MB-51532**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **51532**	RunNo: **67815**							
Prep Date: **4/3/2020**	Analysis Date: **4/3/2020**	SeqNo: **2342819**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-51532**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **51532**	RunNo: **67815**							
Prep Date: **4/3/2020**	Analysis Date: **4/3/2020**	SeqNo: **2342820**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.0	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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#: **2004125**
06-Apr-20

Client: Rule Engineering LLC
Project: Enterprise Lateral 2C 60

Sample ID: **2004125-001AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SC-1** Batch ID: **51531** RunNo: **67813**
Prep Date: **4/3/2020** Analysis Date: **4/3/2020** SeqNo: **2342457** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	9.5	47.66	5.398	73.0	47.4	136			
Surr: DNOP	3.4		4.766		71.5	55.1	146			

Sample ID: **2004125-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SC-1** Batch ID: **51531** RunNo: **67813**
Prep Date: **4/3/2020** Analysis Date: **4/3/2020** SeqNo: **2342458** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	9.4	47.08	5.398	71.9	47.4	136	2.43	43.4	
Surr: DNOP	3.5		4.708		75.1	55.1	146	0	0	

Sample ID: **LCS-51531** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **51531** RunNo: **67813**
Prep Date: **4/3/2020** Analysis Date: **4/3/2020** SeqNo: **2342461** 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	82.5	70	130			
Surr: DNOP	3.6		5.000		72.6	55.1	146			

Sample ID: **MB-51531** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **51531** RunNo: **67813**
Prep Date: **4/3/2020** Analysis Date: **4/3/2020** SeqNo: **2342462** 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	7.8		10.00		78.4	55.1	146			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical 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#: **2004125**
06-Apr-20

Client: Rule Engineering LLC
Project: Enterprise Lateral 2C 60

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G67819**	RunNo: **67819**
Prep Date:	Analysis Date: **4/3/2020**	SeqNo: **2342508** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.7	80	120			
Surr: BFB	1100		1000		110	66.6	105			S

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G67819**	RunNo: **67819**
Prep Date:	Analysis Date: **4/3/2020**	SeqNo: **2342518** 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	1100		1000		109	66.6	105			S

Sample ID: **2004125-001a ms**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SC-1**	Batch ID: **G67819**	RunNo: **67819**
Prep Date:	Analysis Date: **4/3/2020**	SeqNo: **2343516** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	3.3	16.52	0	94.6	69.1	142			
Surr: BFB	770		660.9		117	66.6	105			S

Sample ID: **2004125-001a msd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SC-1**	Batch ID: **G67819**	RunNo: **67819**
Prep Date:	Analysis Date: **4/3/2020**	SeqNo: **2343517** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	3.3	16.52	0	94.1	69.1	142	0.593	20	
Surr: BFB	770		660.9		116	66.6	105	0	0	S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical 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#: **2004125**

06-Apr-20

Client: Rule Engineering LLC

Project: Enterprise Lateral 2C 60

Sample ID: **100ng btex lcs** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **R67819** RunNo: **67819**

Prep Date: Analysis Date: **4/3/2020** SeqNo: **2342520** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.0	80	120			
Toluene	0.98	0.050	1.000	0	98.3	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.4	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.7	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

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

Client ID: **PBS** Batch ID: **R67819** RunNo: **67819**

Prep Date: Analysis Date: **4/3/2020** SeqNo: **2342530** 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	1.1		1.000		114	80	120			

Sample ID: **2004125-002a ms** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **SC-2** Batch ID: **R67819** RunNo: **67819**

Prep Date: Analysis Date: **4/3/2020** SeqNo: **2343565** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.78	0.020	0.7930	0	97.9	78.5	119			
Toluene	0.80	0.040	0.7930	0	100	75.7	123			
Ethylbenzene	0.81	0.040	0.7930	0	102	74.3	126			
Xylenes, Total	2.4	0.079	2.379	0	103	72.9	130			
Surr: 4-Bromofluorobenzene	0.89		0.7930		112	80	120			

Sample ID: **2004125-002a msd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **SC-2** Batch ID: **R67819** RunNo: **67819**

Prep Date: Analysis Date: **4/3/2020** SeqNo: **2343566** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.74	0.020	0.7930	0	93.9	78.5	119	4.23	20	
Toluene	0.76	0.040	0.7930	0	95.6	75.7	123	4.85	20	
Ethylbenzene	0.77	0.040	0.7930	0	96.5	74.3	126	5.06	20	
Xylenes, Total	2.3	0.079	2.379	0	97.7	72.9	130	5.01	20	
Surr: 4-Bromofluorobenzene	0.88		0.7930		111	80	120	0	0	

Qualifiers:

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

Sample Log-In Check List

Client Name: **RULE ENGINEERING LL** Work Order Number: **2004125** RcptNo: **1**

Received By: **Isaiah Ortiz** **4/3/2020 8:00:00 AM** I-OX

Completed By: **Isaiah Ortiz** **4/3/2020 8:03:44 AM** I-OX

Reviewed By: JR 4/3/20

Chain of Custody

1. Is Chain of Custody sufficiently 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: DAD 4/3/20

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	4.3	Good	Yes			
2	4.2	Good	Yes			

Chain-of-Custody Record

Client: Rule Engineering

Mailing Address: 501 Airport Dr. Ste 205
Farmington, NM 87401

Phone #: (505) 716-2787

email or Fax#: hwoods@ruleengineering.com
tjlong@epnrod.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☑ Rush Same Day

Project Name:
Enterprise Lateral 2C-60

Project #:

Project Manager:
Heather Woods

Sampler: Heather Woods

On Ice: ☒ Yes ☐ No

# of Coolers: 2 4.4 - 0.1 kc/ 4.3 °C

Cooler Temp(including CF): 4.2 - 0.1 (cf) / 4.1 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2004125	BTEX / MTBE / TMBs (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_4 300.0	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
4/2/20	1425	Soil	SC-1	(1) 4oz Glass	Cool	-001	X	X					X			
4/2/20	1430	Soil	SC-2	(1) 4oz Glass		-002	X	X					X			
4/2/20	1435	Soil	SC-3	(1) 4oz Glass		-003	X	X					X			
4/2/20	1440	Soil	SC-4	(1) 4oz Glass		-004	X	X					X			
4/2/20	1445	Soil	SC-5	(1) 4oz Glass		-005	X	X					X			
4/2/20	1450	Soil	SP-1	(1) 4oz Glass		-006	X	X					X			
4/2/20	1455	Soil	SP-2	(1) 4oz Glass		-007	X	X					X			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
4/2/20	1746	Heather M. Woods	Christin Wall		4/2/20	1746
4/4/20	1827	Christin Wallace		courier	4/3/20	0800

Remarks:
Direct Bill to Enterprise
Supervisor: Dwayne Dixon
Non-AFE: N47501

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 10555

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
ENTERPRISE FIELD SERVICES, LLC	PO Box 4324	Houston, TX77210	241602	10555	C-141

OCD Reviewer	Condition
kcollins	None