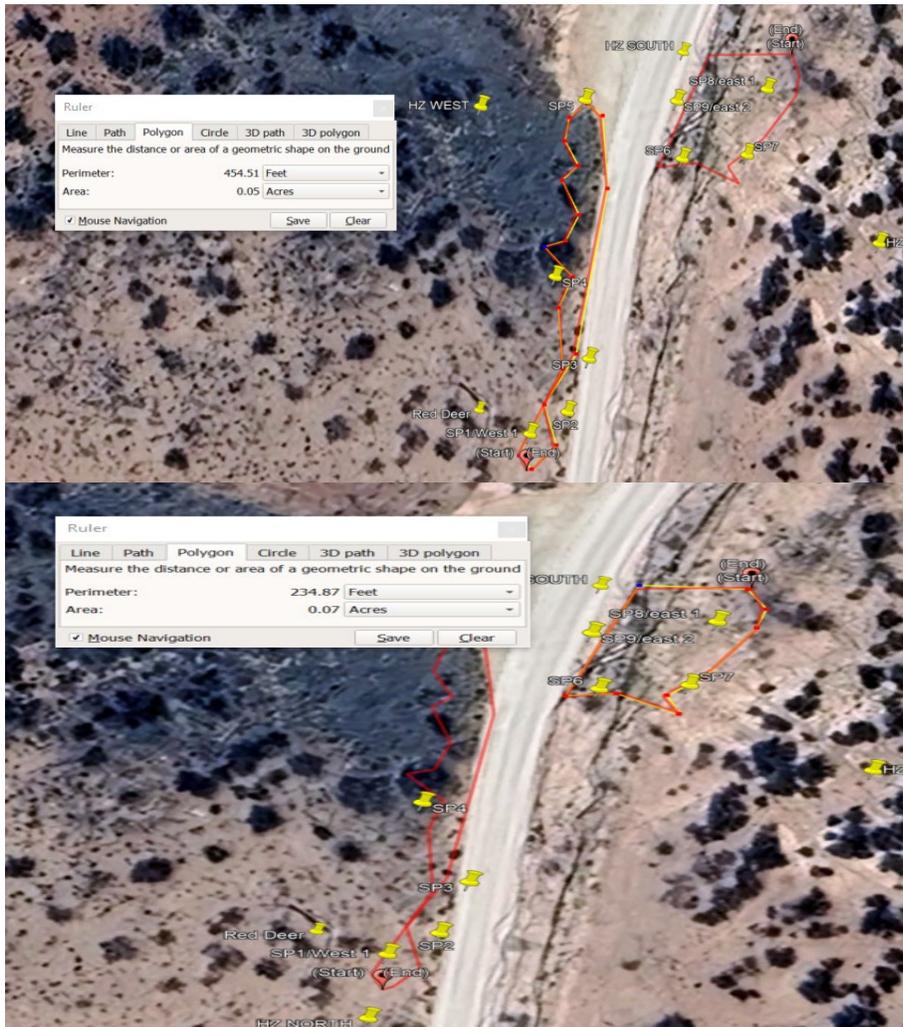


0.12 * 325,851 ac/ft * 1 ft deep * 0.1 inch/inch available water capacity= 3910 gal
 /42 BBL = **93 BBL**



Plant-available water holding capacities of various textured soil.

Soil Texture	Plant-Available Water Holding Capacity (inches of water per foot of soil)
Very coarse sands	0.4 - 0.75
Coarse sands, fine sands, loamy sands	0.75 - 1.25
Sandy loams, fine sandy loams	1.25 - 1.75
Very fine sandy loams, loams, silt loams	1.50 - 2.30
Clay loams, silty clay loams, sandy clay loams	1.75 - 2.50
Sandy clays, silty clays, clays	1.60 - 2.50

²Adapted from: Schwankl, L.J. and T. Prichard. 2009. University of California Drought Management Web Site. <http://UCManageDrought.ucdavis.edu>. Viewed Aug. 13, 2009.



Closure Report

Red Deer

Chaves County, NM

Units O & J, Section 26 T15S R28E

Latitude 32°58'58.10"N, Longitude 104° 6'1.70"W

NMOCD Incident # nAPP2327650736

Select Water Solutions, LLC

1502 E Greene St

Carlsbad, NM 88220

March 2025

A handwritten signature in black ink, appearing to read 'Timsan Bricker', written over a horizontal line.

Timsan Bricker

Environmental Manager

tbricker@selectwater.com

A handwritten signature in black ink, appearing to read 'Halie Butler', written over a horizontal line.

Halie Butler

Director - Environmental

hbutler@selectwater.com



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Background:

The site is located in Unit Letter O and J (SWSE and NWSE), Section 26, Township 15 South, Range 28 East, approximately thirteen miles northwest of Loco Hills, in Chaves County, New Mexico. The site is located on New Mexico State land. Topographic Map, OSE POD Locations Map, and USGS Well Locations Map are included as Figure 1, Figure 2, and Figure 3, respectively.

The release occurred on an active layflat water line; Latitude 32.98281 North, Longitude - 104.10047 West. The Initial NMOCD Form C-141 indicated that on October 3, 2023, approximately 93 BBL of produced water were released due to a blow out on the water line. A crew was dispatched to the release site and the line was repaired. Previously submitted pages of the NMOCD Form C-141 are available on the NMOCD Imaging System.

NMOCD Site Classification:

A search of the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) groundwater databases was completed in effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Depth to groundwater was not able to be determined within 1/2 mile of the site. Karst mapping indicates the site is not located in a Karst designated area. Karst and Wetland Maps are provided as Attachment I. Depth to groundwater information is provided as Attachment IV and the results are depicted on Figures 2 & 3.

The site was delineated and further remediated to the strictest NMOCD Closure Criteria due to lack of groundwater data. Utilizing this information, the NMOCD Closure Criteria for the Site were determined as follows:

Depth to Groundwater	Constituent	Method	Limit
<50	Chloride	EPA 300.0 or SM4500 CLB	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	100 mg/kg
	GRO + DRO	EPA SW-846 Method 8015M Ext	N/A
	BTEX	EPA SW-846 Methods 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Methods 8021B or 8260B	10 mg/kg

**Delineation:**

On October 10, 2023 Select conducted an initial site assessment consisting of photographing and mapping the release area, as well as taking preliminary surface samples. On October 27, 2023, delineation began and samples were taken from 0-1'. Laboratory analytical results indicated samples S3, S8/East 1, and S9/East 2 were below NMOCD Closure Criteria at 1 ft bgs.

On January 4, 2024 samples were taken to 2.5' before hitting hand auger refusal. Lab analytical results indicated sample S2 was below NMOCD closure criteria at 2' bgs.

On February 6, 2024, Hungry Horse LLC was dispatched to continue sampling down to 4'. During delineation activities, sample test trenches were advanced in the release area in effort to determine the vertical extent of contamination. These sample locations are identified by SP designation. In addition, sample test trenches were advanced along the outside edges of the release area in effort to determine the horizontal extent of contamination. These sample locations are identified by HZ designation. During the advancement of the test trenches, soil samples were collected and field screened for the presence of chloride concentrations utilizing a Hach Quantab® chloride test kit.

Based on field observations and field test data noted above and provided in Attachment V, seven representative soil samples were selected for laboratory analysis. Delineation soil samples SP1, SP4 through SP7, HZ South 0' and HZ South 1', were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples; HZ South at surface, and SP1, SP4-SP7 at 4' bgs.

Remediation Activities:

The remediation was done in two phases, classified by the "West Side" and "East Side." The West Side was remediated first, through excavation of contaminated soils and backfilling with clean locally sourced material. On October 4, 2024, Hungry Horse Environmental Services, LLC commenced excavation of the West side, taking the area down from 4-6 ft BGS before reaching closure criteria. OCD was notified of closure sampling on October 18, 2024, for approximately 3200 square feet with 16 floor samples and 15 sidewall samples. All samples met closure criteria for Chloride, TPH, BTEX, and Benzene. The area was subsequently backfilled and reseeded.

The East Side of the remediation was delayed due to the area being cordoned off by a separate company remediating a separate incident. Once the other company was completed with their remediation, Hungry Horse was able to continue the excavation, commencing January 27, 2025. The excavation was completed at depths ranging from 1 ft to 6 ft BGS. OCD was notified of closure sampling on February 7, 2025, for approximately 2800 square feet with 14 floor samples and 8 sidewall samples. All samples met closure criteria for Chloride, TPH, BTEX, and Benzene. The area was subsequently backfilled and reseeded.



On February 24, 2025, the area of HZ East was excavated to achieve closure criteria. OCD was notified for closure sampling on October 28, 2025 for 100 sqft with 1 floor sample and 4 sidewall samples. All samples met closure criteria for Chloride, TPH, BTEX, and Benzene. The area was subsequently backfilled and reseeded.

On April 14, 2025, the portion of the road where the spill crossed it was confirmation sampled with 5-point composite sampling to verify that the road area was clean. The samples were taken at 0-1 depth and all samples met closure criteria for Chloride, TPH, BTEX, and Benzene.

In all, the total excavation was approximately 6100 square feet, with about 612 cubic yards of contaminated materials hauled to Gandy-Marley Land Farm and Lea Land Landfill.

Restoration, Reclamation, and Re-Vegetation:

Once analytical results confirmed that contaminated soils had been successfully remediated, the excavated area was backfilled and contoured to achieve erosion control and preserve surface water flow. The affected area was reseeded with an approved seed mixture and monitored for restoration of 75% of initial ground coverage according to NMOCD standards. All areas not reasonably needed for production were restored to pre-existing conditions.

Based on these activities and sample results, Select respectfully requests closure of this incident.

Distribution:

New Mexico Energy, Minerals, and Natural Resources Department
Oil Conservation Division, District 2
811 S. First St
Artesia, NM 88210

New Mexico State Land Office
Roswell District
1001 S Atkinson Ave
Roswell, NM 88203



Figures

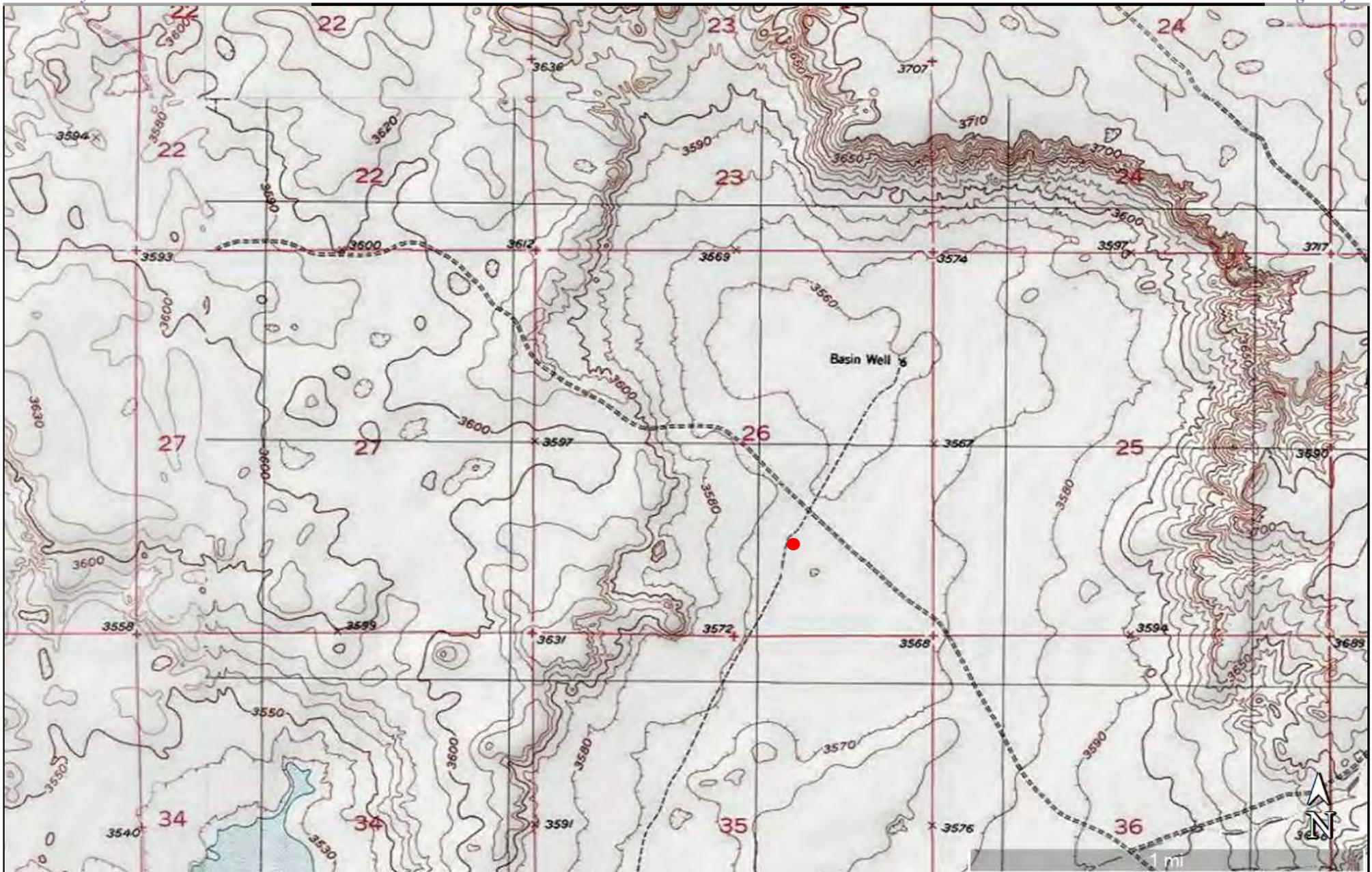


Figure 1

Topographic Map

Select Energy

Red Deer

GPS: 32.983315, -104.100032

Chaves County

Legend:

● Red Deer Location

Drafted: dd

Checked: jh

Date: 2/5/25





1:9,028

Figure 2

OSE POD Locations Map
Select Energy
Red Deer
GPS: 32.983315, -104.100032
Chaves County

Legend:

● Red Deer Location



Drafted: dd
Checked: jh
Date: 2/5/25

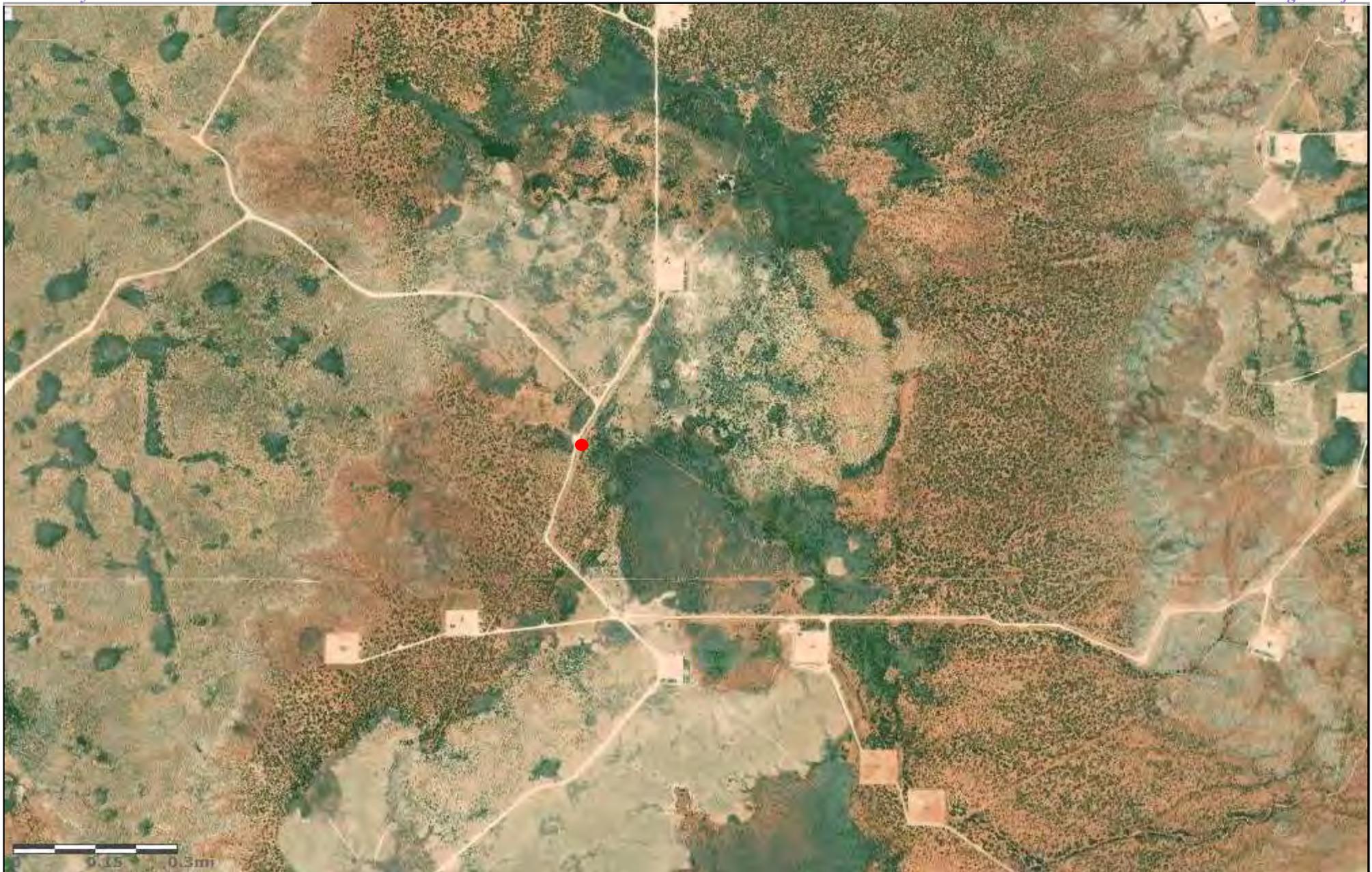


Figure 3

USGS Well Locations Map
Select Energy
Red Deer
GPS: 32.983315, -104.100032
Chaves County

Legend:

● Red Deer Location



Drafted: dd
Checked: jh
Date: 2/5/25



Figure 5

Excavation Floor Sample Map
 Select Energy
 Red Deer
 GPS: 32.983315, -104.100032
 Chaves County

Legend:

- Excavated Areas
- Composite Confirmation Sample 200 Square Foot Area
- FL1 Composite Confirmation Sample Location

Drafted: dd
 Checked: jh
 Date: 2/5/25





Figure 4

Delineation Map

Select Energy

Red Deer

GPS: 32.983315, -104.100032

Chaves County

Legend:

- Release Areas
- S1 Delineation Sample Location
- HN Horizontal Sample Location



Drafted: dd
 Checked: jh
 Date: 2/5/25



Figure 6

Excavation Sidewall Sample Map
Select Energy
Red Deer
GPS: 32.983315, -104.100032
Chaves County

Legend:

-  Excavated Area
-  Composite Confirmation Sidewall Sample Location
-  Sidewall Sample Boundary



Drafted: dd
Checked: jh
Date: 2/5/25



Tables



Table 1
Summary of Soil Sample Laboratory Analytical Results- Delineation
Select Water
Red Deer
NMOCD Inc# nAPP2327650736

RED DEER - MACK ENERGY 10/2/2023						
SAMPLE ID	DATE	DEPTH	BTEX	TDS	TPH	CHLORIDE
HZ North	10/27/2023	0	0	93.6	0	0
		1		94.8		19.1
HZ West	10/27/2023	0	0	93.9	0	0
		1		92.7		11.3
HZ East	10/27/2023	0	0	89.7	0	32.6
		1		91.6		693
HZ South	2/6/2024	0	0			148
		1	0			389
SP1/West 1	10/10/2023	0		82.1	0	7330
	10/27/2023	1	0	91.1	0	8830
		2.5		91.3		700
	2/6/2024	4				919
SP2	10/27/2023	0	0	92.1	0	5460
	10/27/2023	1	0	93.3	0	1430
		2.5		85.1		29
SP3	10/27/2023	0	0	94.3	0	3160
	10/27/2023	1	0	93.2	0	400
		2.5		90.5		104
SP4	10/27/2023	0	0	82.2	0	4670
	10/27/2023	1	0	86.4	0	6300
		2.5		78.2		3660
	2/6/2024	4				7200
SP5/WEST 2	10/10/2023	0		73.2	0	9820
	10/27/2023	1	0	88.1	0	6420
		2.5		85.5		722
	2/6/2024	4				1050
SP6	10/27/2023	0	0	87.2	0	8180
	10/27/2023	1	0	86.1	0	4350
		2.5		78		2270
	2/6/2024	4				2570
SP7	10/27/2023	0	0	88.5	0	3620
	10/27/2023	1	0	91.1	0	1420
		2.5		85.1		1080
	2/6/2024	4				1080
SP8/EAST 1	10/10/2023	0		84.8	0	5100
	10/27/2023	1	0	90	0	463
SP9/EAST 2	10/10/2023	0		73	0	4030
	10/27/2023	1	0	90.4	0	401



Table 2

Summary of Soil Sample Laboratory Analytical Results- Confirmation West Side

Select Water

Red Deer

NMOCD Inc# nAPP2327650736

RED DEER - MACK ENERGY 10/2/2023 - CONFIRMATION WEST SIDE						
SAMPLE ID	DATE	DEPTH	BTEX	DRO+GRO	TPH	CHLORIDE
FL1	10/18/2024	4	ND	ND	ND	56.4
FL2	10/18/2024	4	ND	ND	ND	55.8
FL3	10/18/2024	6	ND	ND	ND	45.3
FL4	10/18/2024	6	ND	ND	ND	51.3
FL5	10/18/2024	6	ND	ND	ND	48.2
FL6	10/18/2024	6	ND	ND	ND	50.2
FL7	10/18/2024	6	ND	ND	ND	41.4
FL8	10/18/2024	6	ND	ND	ND	51.6
FL9	10/18/2024	6	ND	ND	ND	44.5
FL10	10/18/2024	6	ND	ND	ND	47.7
FL11	10/18/2024	6	ND	ND	ND	42.7
FL12	10/18/2024	6	ND	ND	ND	73.5
FL13	10/18/2024	6	ND	ND	ND	97.4
FL14	10/18/2024	6	ND	ND	ND	77.9
FL15	10/18/2024	6	ND	ND	ND	80.9
FL16	10/18/2024	6	ND	ND	ND	77
SW1	10/18/2024	0-4	ND	ND	ND	77.7
SW2	10/18/2024	0-4	ND	ND	ND	81.7
SW3	10/18/2024	0-6	ND	ND	ND	87.9
SW4	10/18/2024	0-6	ND	ND	ND	103
SW5	10/18/2024	0-6	ND	ND	ND	52.1
SW6	10/18/2024	0-6	ND	ND	ND	115
SW7	10/18/2024	0-6	ND	ND	ND	69.1
SW8	10/18/2024	0-6	ND	ND	ND	96.5
SW9	10/18/2024	0-6	ND	ND	ND	68.1
SW10	10/18/2024	0-6	ND	ND	ND	57.4
SW11	10/18/2024	0-6	ND	ND	ND	50
SW12	10/18/2024	0-6	ND	ND	ND	52.3
SW13	10/18/2024	0-6	ND	ND	ND	58.8
SW14	10/18/2024	0-6	ND	ND	ND	46.7
SW15	10/18/2024	0-6	ND	ND	ND	51.1
R1	4/14/2025	0-1	ND	ND	ND	27.7
R2	4/14/2025	0-1	ND	ND	ND	26.1
R3	4/14/2025	0-1	ND	ND	ND	27.5



Table 3

Summary of Soil Sample Laboratory Analytical Results- Confirmation East Side

Select Water

Red Deer

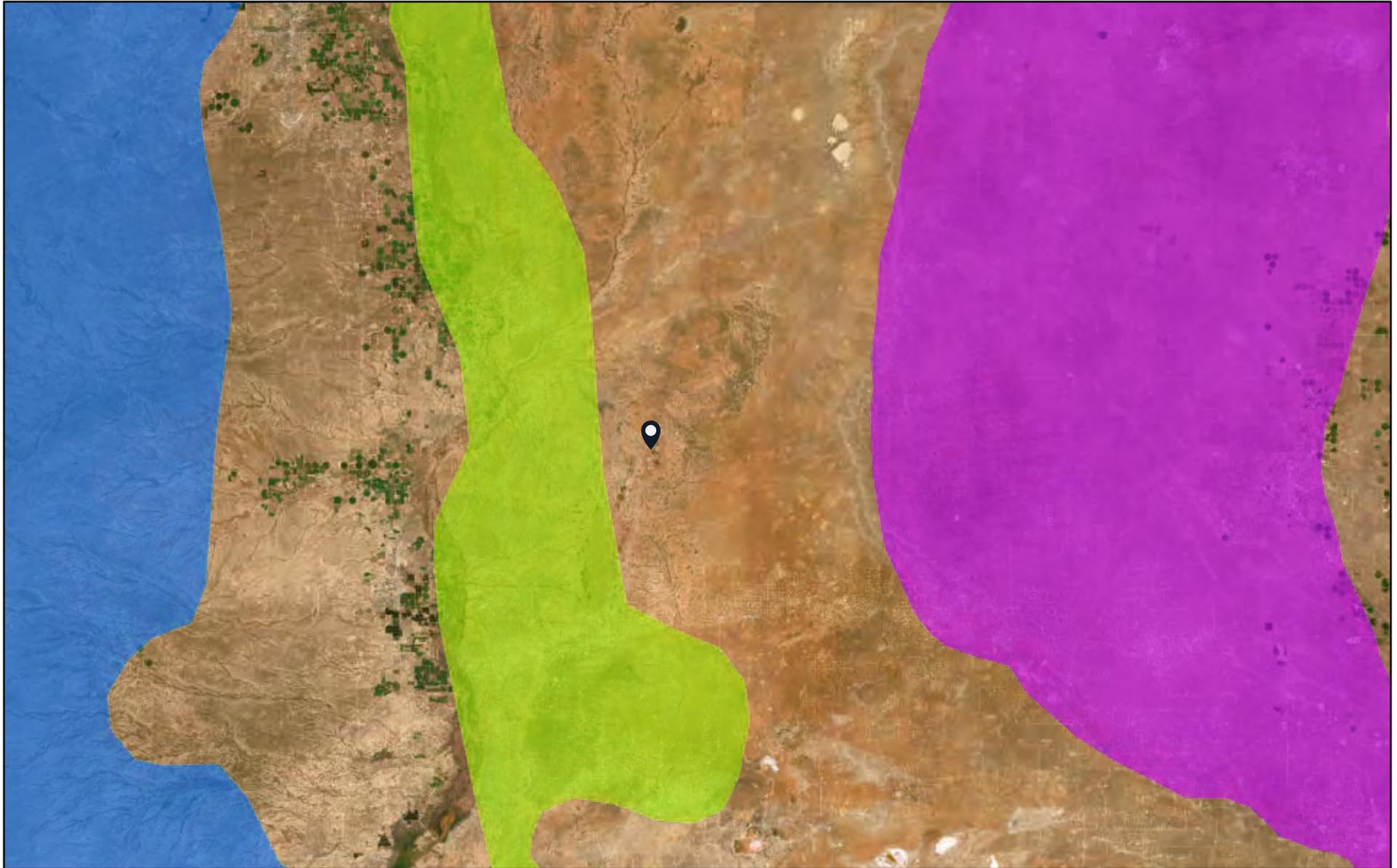
NMOCD Inc# nAPP2327650736

RED DEER - MACK ENERGY 10/2/2023 – CONFIRMATION EAST SIDE						
SAMPLE ID	DATE	DEPTH	BTEX	DRO+GRO	TPH	CHLORIDE
FL1	2/7/2025	1	ND	ND	ND	275
FL2	2/7/2025	1	ND	ND	ND	351
FL3	2/7/2025	1	ND	ND	ND	484
FL4	2/7/2025	1	ND	ND	ND	514
FL5	2/7/2025	1	ND	ND	ND	558
FL6	2/7/2025	1	ND	ND	ND	434
FL7	2/7/2025	1	ND	ND	ND	ND
FL8	2/7/2025	6	ND	ND	ND	ND
FL9	2/7/2025	6	ND	ND	ND	ND
FL10	2/7/2025	6	ND	ND	ND	ND
FL11	2/7/2025	6	ND	ND	ND	ND
FL12	2/7/2025	6	ND	ND	ND	ND
FL13	2/7/2025	6	ND	ND	ND	21.3
FL14	2/7/2025	6	ND	ND	ND	ND
FL15/HZ EAST	2/28/2025	1.5	ND	ND	ND	111
SW1	2/7/2025	0-1	ND	ND	ND	34
SW2	2/7/2025	0-1	ND	ND	ND	28.5
SW3	2/7/2025	0-1	ND	ND	ND	135
SW4	2/7/2025	0-6	ND	ND	ND	138
SW5	2/7/2025	0-6	ND	ND	ND	147
SW6	2/7/2025	0-6	ND	ND	ND	46.8
SW7	2/7/2025	0-6	ND	ND	ND	131
SW8	2/7/2025	0-6	ND	ND	ND	120
SW9/HZ EAST	2/28/2025	0-1	ND	ND	ND	114
SW10/HZ EAST	2/28/2025	0-1	ND	ND	ND	122
SW11/HZ EAST	2/28/2025	0-1	ND	ND	ND	106
SW12/HZ EAST	2/28/2025	0-1	ND	ND	ND	101



Attachment I
KARST, Wetland, and
USFWS MAs

Red Deer



2/21/2025

Karst Type

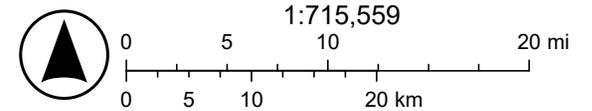
- Carbonate
- Erosional
- Gypsum

- Volcanic
- World Imagery
- Low Resolution 15m Imagery
- High Resolution 60cm Imagery

High Resolution 30cm Imagery

Citations

150m Resolution Metadata



U.S. Geological Survey Open-File Report 2004-1352, Caves and Karst in the U.S. National Park Service, AGI Karst Map of the US., Earthstar Geographics



Red Deer



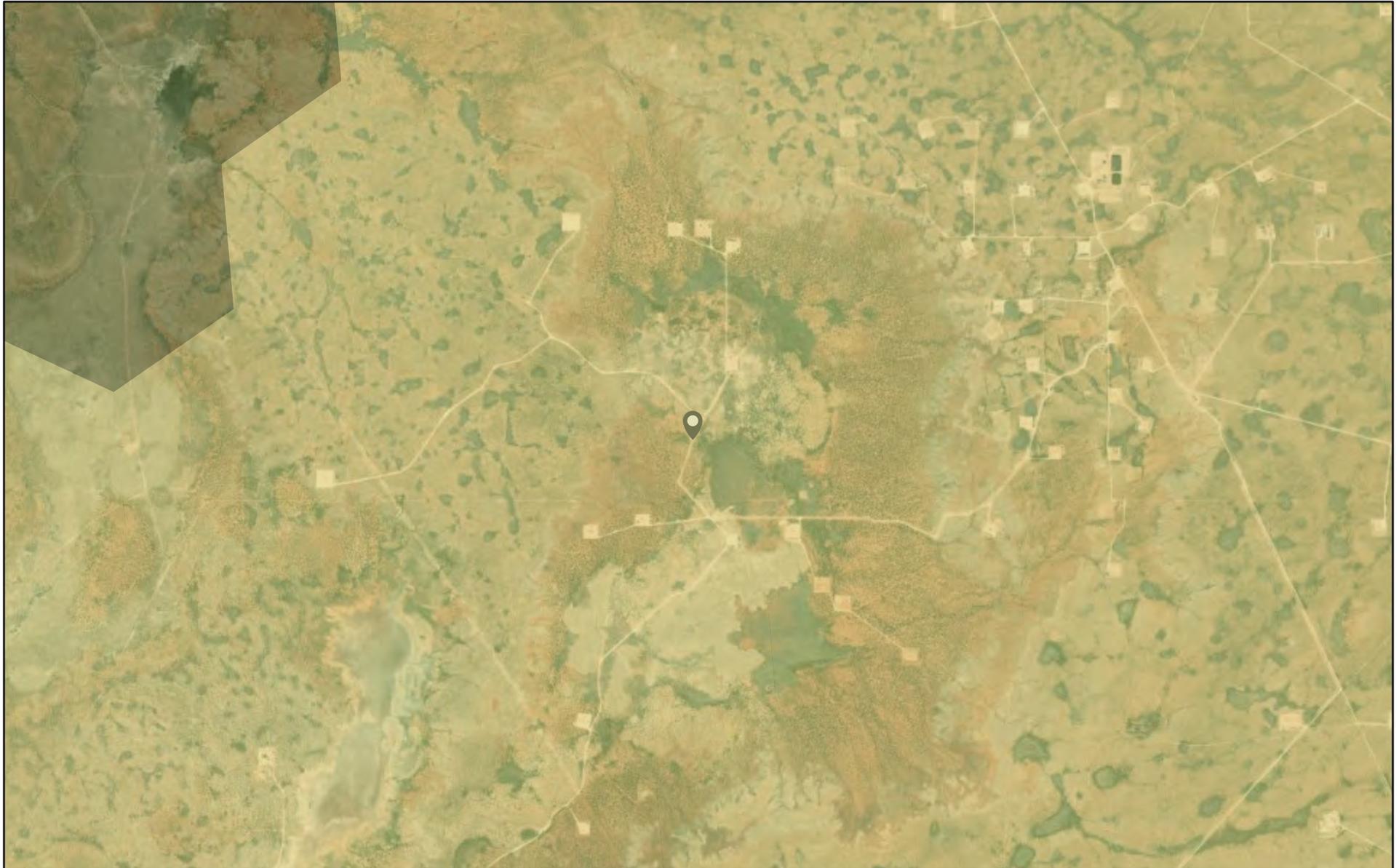
February 21, 2025

Wetlands

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

Red Deer



2/21/2025

CHAT 3: modeled available/potential LPC habitat

CHAT 4: modeled LPC non-habitat

World Imagery

Low Resolution 15m Imagery

High Resolution 60cm Imagery

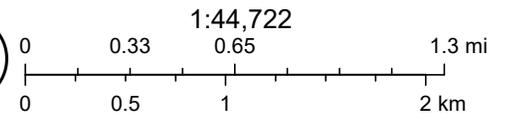
High Resolution 30cm Imagery

Citations

9.6m Resolution Metadata



Maxar





Attachment II

Soils Map

Soil Map—Chaves County, New Mexico, Southern Part
(Red Deer)

104° 7' 1" W

104° 4' 57" W

32° 59' 33" N

32° 59' 33" N

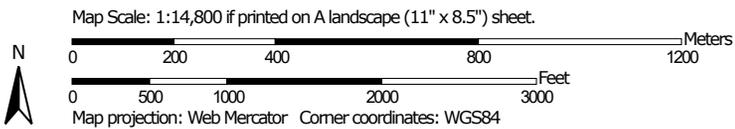


32° 58' 25" N

32° 58' 25" N

104° 7' 1" W

104° 4' 57" W



Chaves County, New Mexico, Southern Part

Aa—Alama loam

Map Unit Setting

National map unit symbol: 1w6g
Elevation: 3,200 to 4,200 feet
Mean annual precipitation: 10 to 16 inches
Mean annual air temperature: 59 to 65 degrees F
Frost-free period: 180 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Alama and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Alama

Setting

Landform: Flood plains, swales
Landform position (three-dimensional): Talf
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Calcareous alluvium derived from sedimentary rock

Typical profile

H1 - 0 to 3 inches: loam
H2 - 3 to 58 inches: clay loam
H3 - 58 to 69 inches: silt loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Rare
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: High (about 11.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6e

Map Unit Description: Alama loam---Chaves County, New Mexico, Southern Part

Red Deer

Hydrologic Soil Group: C
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Minor Components

Pajarito

Percent of map unit: 5 percent
Ecological site: R070BD004NM - Sandy
Hydric soil rating: No

Berino

Percent of map unit: 5 percent
Ecological site: R070BD004NM - Sandy
Hydric soil rating: No

Pintura

Percent of map unit: 4 percent
Ecological site: R070BD005NM - Deep Sand
Hydric soil rating: No

Playa

Percent of map unit: 1 percent
Landform: Flood-plain playas
Landform position (three-dimensional): Dip, talf
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: R070BC017NM - Bottomland
Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Chaves County, New Mexico, Southern Part
Survey Area Data: Version 19, Sep 3, 2024

Soil Map—Chaves County, New Mexico, Southern Part
(Red Deer)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features

-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features

Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Chaves County, New Mexico, Southern Part
Survey Area Data: Version 19, Sep 3, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Aa	Alama loam	206.0	18.7%
HrC	Holloman-Gypsum land complex, 3 to 5 percent slopes	266.4	24.2%
Pb	Pajarito-Pintura complex	127.8	11.6%
So	Sotim fine sandy loam	218.2	19.8%
TOF	Torriorthents, very steep	63.1	5.7%
TS	Tencee-Sotim association	219.1	19.9%
Totals for Area of Interest		1,100.6	100.0%

Chaves County, New Mexico, Southern Part

So—Sotim fine sandy loam

Map Unit Setting

National map unit symbol: 1w8c

Elevation: 3,200 to 4,500 feet

Mean annual precipitation: 10 to 14 inches

Mean annual air temperature: 59 to 65 degrees F

Frost-free period: 190 to 220 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Sotim and similar soils: 85 percent

Minor components: 15 percent

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

Description of Sotim

Setting

Landform: Plains, alluvial fans

Landform position (three-dimensional): Rise

Down-slope shape: Convex, linear

Across-slope shape: Convex, linear

Parent material: Mixed alluvium and/or eolian deposits derived from sedimentary rock

Typical profile

H1 - 0 to 7 inches: fine sandy loam

H2 - 7 to 70 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: Medium

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high (0.20 to 0.60 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 35 percent

Gypsum, maximum content: 9 percent

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

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: High (about 10.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Map Unit Description: Sotim fine sandy loam---Chaves County, New Mexico, Southern Part

Red Deer

Hydrologic Soil Group: C
Ecological site: R070BD004NM - Sandy
Hydric soil rating: No

Minor Components

Russler

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

Gypsum land

Percent of map unit: 4 percent
Hydric soil rating: No

Tencee

Percent of map unit: 3 percent
Ecological site: R070BC025NM - Shallow
Hydric soil rating: No

Reeves

Percent of map unit: 3 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Ravine

Percent of map unit: 1 percent
Landform: Streams, arroyos, perenial streams, ravines
Landform position (three-dimensional): Dip, talf
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: R070BC033NM - Salty Bottomland
Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Chaves County, New Mexico, Southern Part
Survey Area Data: Version 19, Sep 3, 2024



Attachment III
Cultural Clearance



Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:

(if applicable)

Exhibit Type (select one)

ARMS Inspection/Review - Summarize the results (select one):

- (A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
- (B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
- (C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

Archaeological Survey

Findings:

Negative - No further archaeological review is required.

Positive - Have avoidance and protection measures been devised? Select one:

Comments:

Project Details:

NMSLO Lease Number (if available):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

Project Location:

County(ies):

PLSS/Section/Township/Range):

For NMSLO Agency Use Only:

NMSLO Lease Number:

Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22



Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:
(if applicable)

Exhibit Type (select one)

ARMS Inspection/Review - Summarize the results (select one):

- (A) The entire area of potential effect or project area has been previously surveyed to current standards and no cultural properties were found within the survey area.
- (B) The entire area of potential effect or project area has been previously surveyed to current standards and cultural properties were found within the survey area.
- (C) The entire area of potential effect or project area has not been previously surveyed or has not been surveyed to current standards. A complete archaeological survey will be conducted and submitted for review.

Archaeological Survey

Findings:

- Negative - No further archaeological review is required.
- Positive - Have avoidance and protection measures been devised? Select one:

Comments:

Project Details:

NMSLO Lease Number (if available):

Cultural Resources Consultant: Alissa K. Healy, SWCA Environmental Consultants, Albuquerque NM

Project Proponent (Applicant): Select Water Solutions

Project Title/Description: Red Deer Inadvertent Release Remediation Project on New Mexico State Land
Office lands in Chaves County, NM

Project Location:

County(ies): Chaves

PLSS/Section/Township/Range): S 35, T15S, R28E

For NMSLO Agency Use Only:

NMSLO Lease Number: Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22



ENVIRONMENTAL CONSULTANTS

Sound Science. Creative Solutions.®

7770 Jefferson Street NE, Suite 410
Albuquerque, New Mexico 87109
Tel 505.254.1115 Fax 505.254.1116
www.swca.com

April 4, 2024

TO: Ethan Ortega, Division Director & Archaeologist, New Mexico State Land Office, Santa Fe, New Mexico

FROM: SWCA Environmental Consultants

SUBJECT: Completion of an Archaeological Records Management Section Review for the Red Deer Inadvertent Release Remediation Project on New Mexico State Land Office lands in Chaves County, NM

Company Ref No: None-Provided

PROJECT DESCRIPTION:

Select Water Solutions has requested that SWCA Environmental Consultants (SWCA) conduct an Archaeological Resource Management Section (ARMS) review for the Red Deer release remediation project in Chaves County, New Mexico. The proposed project is on lands managed by the New Mexico State Land Office (NMSLO) approximately 52.9 kilometers (32.9 miles) west of Artesia, NM in Township 15S, Range 28E, Section 35.

A literature and file search were conducted on March 29, 2024, using the New Mexico Cultural Resources Information System (NMCRIS) online database managed by ARMS of the New Mexico Historic Preservation Division (HPD) which included a review of known cultural resources, such as the built environment, archaeological sites, and State/National Register listed properties. Other sources reviewed include the Bureau of Land Management (BLM) General Land Office (GLO) Records web site, <http://www.gloreCORDS.blm.gov>, which include land patent and general land office survey data. As this area was not settled by Spain, land grant records were not reviewed. The review was conducted for the remediation area, consisting of the inadvertent release area and a 100 ft (30 m) buffer around the spill location. The land the proposed project is located on is part of the February 19, 1909: Homestead Entry-Enlarged (35 Stat. 639) patented on February 2, 1922, issued to Ernest E. Hinshaw, as well as the June 20, 1910: New Mexico Enabling Act (36 Stat. 557) patented on October 7, 1919, and March 27, 1924, both of which were issued to the state of New Mexico.

Recommendation:

The project area and surrounding 500 m (0.31 mile) have been subject to eleven (11) cultural resource surveys, nine of which are considered qualifying (completed within the last 10 years), all of which are listed in Table 1. Two (2) previously recorded sites are located within the same 500 m (0.31 mile) area; neither of which will be impacted by the remediation efforts (Table 2). The closest resource is over 350 feet from the spill location. The inadvertent release is entirely located on NMSLO-managed lands. Because the proponent will only be utilizing the existing access road and following the guidance set forth by State Land Office Rule 19.2.5 NMAC and NMAC 14.10.14 the remediation area is fully covered by qualifying survey, no additional survey will be required.

Information regarding the findings can be found in Table 1, Table 2, and Figure 1.

Sincerely,

Archaeologist

Attached: (1) Review Results, (1) ARMS Map, and (1) PLSS Map.



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Archaeological Resources Management Section (ARMS) Review Results

Table 1. Cultural surveys within 500 meters (0.31 mile) of proposed project.

NMCRIS No.	Performing Organization	Date of Investigation	Acres Surveyed	Sites Visited
32444	Agency for Conservation Archaeology Eastern New Mexico University	30-APR-1989	2,209.00	39
94825	Southern NM Archaeological Services	3-NOV-1997	1,236.24	31
130327	Southern NM Archaeological Services	7-APR-2014	26.86	0
132459	Southern NM Archaeological Services	11-NOV-2014	19.75	0
132960	Southern NM Archaeological Services	5-FEB-2015	360.00	11
138435	Double D Oil Field Services, LLC	30-JUN-2017	31.00	2
139682	Double D Oil Field Services, LLC	3-JAN-2018	20.00	0
139861	Double D Oil Field Services, LLC	25-JAN-2018	30.41	1
145002	Double D Oil Field Services, LLC	2-JAN-2020	142.68	4
150560	Double D Oil Field Services, LLC	8JUN-2022	0.54	0
152663	Double D Oil Field Services, LLC	23-FEB-2023	59.12	2

Table 2. Cultural resources within 500 meters (0.31 mile) of proposed project.

LA Number	Site Type	Cultural Affiliation	Eligibility	Within or Outside Survey Area
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]



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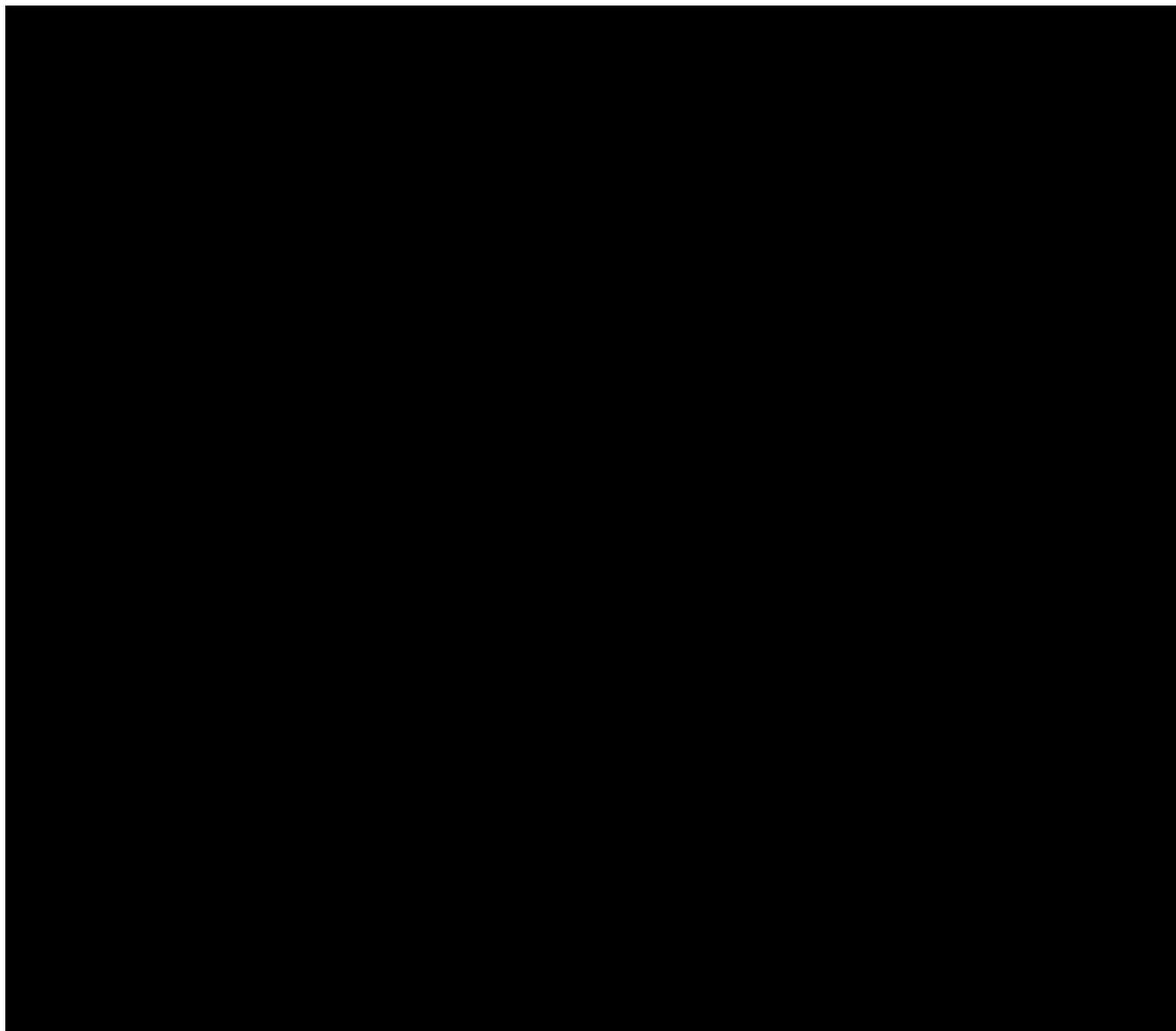


Figure 1. NMCris screenshot showing the location of the Red Deer inadvertent release location (green polygon) with a 500 m (0.31 mile) desktop review buffer area (light green circle). The screenshot includes previously conducted survey investigations (dark yellow and brown polygons) and previously recorded cultural resources (tan and red polygons).





Attachment IV
NMOCD and NMSLO Correspondence

From: OCDOnline@state.nm.us
To: [Timsan Bricker](#)
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 271936
Date: Tuesday, October 3, 2023 2:06:13 PM

External Email: Use caution with links & attachments. The sender of this email is emnrd.ocdonline@emnrd.nm.gov

To whom it may concern (c/o Timsan Bricker for SELECT ENERGY SERVICES, LLC),

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2327650736, with the following conditions:

- **When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.**

Please reference nAPP2327650736, on all subsequent C-141 submissions and communications regarding the remediation of this release.

NOTE: As of December 2019, NMOCD has discontinued the use of the “RP” number.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@state.nm.us

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

From: [Griffin, Becky R.](#)
To: [Timsan Bricker](#)
Subject: RE: Select Water Solutions spill in Chaves County
Date: Wednesday, October 4, 2023 3:42:22 PM
Attachments: [image002.png](#)

External Email: Use caution with links & attachments. The sender of this email is bgriffin@slo.state.nm.us

Perfect. Thank you

From: Timsan Bricker <TBricker@selectwater.com>
Sent: Wednesday, October 4, 2023 3:24 PM
To: Griffin, Becky R. <bgriffin@slo.state.nm.us>
Subject: [EXTERNAL] RE: Select Water Solutions spill in Chaves County

Thank you ma'am! The name of the line is Frac Line ROW and permit is #R40609 under Mack Energy.

TIMSAN BRICKER

Environmental Coordinator

1502 E Greene St | Carlsbad, NM 88220

M: 575-200-7551

tbricker@selectwater.com



From: Griffin, Becky R. <bgriffin@slo.state.nm.us>
Sent: Wednesday, October 4, 2023 2:57 PM
To: Timsan Bricker <TBricker@selectwater.com>
Cc: Barnes, Will <wbarnes@slo.state.nm.us>; Knight, Tami C. <tknight@slo.state.nm.us>; Honea, Tammy <thonea@slo.state.nm.us>
Subject: Select Water Solutions spill in Chaves County

External Email: Use caution with links & attachments. The sender of this email is bgriffin@slo.state.nm.us

Hi Timsan,

Thank you for notifying us of the 93 barrel produced water spill in Chaves County through the Web Form. All future notifications and additional information, that we spoke of on this spill, please report to us at spills@slo.state.nm.us unless it is an emergency situation. I have highlighted below information regarding the CPP Rule that we discussed on the phone.

This letter is to confirm that a release notification was received from your office on October 3, 2023. The NMSLO Environmental Compliance Office (ECO) has reviewed the records submitted regarding the subject release. No additional information regarding the subject release is required at this time. Once the release is stopped and contained, your cooperation in completing the subsequent remediation tasks is appreciated:

Cultural Properties Protection Rule (CPP)

For releases that impact State Trust Land surface beyond previously disturbed areas, responsible parties must comply with the CPP Rule prior to proceeding with any earth disturbance activities. The NMSLO Cultural Resources Office (CRO) is always willing to provide recommendations and facilitate project planning. To request planning assistance please email croinfo@slo.state.nm.us or call 505-827-5781. To learn more about the CPP Rule visit: nmstatelands.org/divisions/cultural-resources-office/culturalproperties.

90-Day Remediation and Closure

For releases that are remediated and are closed within 90 days of the discovery date, a written notification of the confirmation sampling event must be submitted to ECO a minimum of two business days from the sampling event. Please submit notifications to eco@slo.state.nm.us with the subject line as follows: (Document Description) Location Name (Incident #) Date of Release. As an example: *(Sampling Notification) Springsteen A State 001 (NAPP0123456789) 06-01-2022*.

The subsequent remediation closure report must be submitted to ECO for review and approval. Please submit the closure report to eco@slo.state.nm.us with the subject line *(Closure Report Submittal) Location Name (Incident #) Date of Release*.

Extended Remediation and Closure

For remediation actions that cannot be completed and closed within 90 days of the discovery date, a written remediation plan must be submitted to ECO for review and approval. Please submit the workplan to eco@slo.state.nm.us with the subject line *(Remediation Plan Submittal) Location Name (Incident #) Date of Release*.

Reclamation

Sites that are remediated and being prepared for reclamation must have a written reclamation plan submitted to ECO for review and approval. Note, it is acceptable to combine the remediation and reclamation plan

into one document for ECO approval. If the document is a standalone reclamation plan, please submit the plan to eco@slo.state.nm.us with the subject line *(Reclamation Plan Submittal) Location Name (Incident #) Date of Release.*

Thank you,
Environmental Compliance Office
Surface Division
New Mexico State Land Office
nmstatelands.org

Please let us know if you have any questions.
Thank you,

Becky

Becky Griffin

Environmental Specialist

Surface Division

Cell 505.699.2479

Office 575.392.8736

New Mexico State Land Office

914 N Linam

Hobbs, NM 88240

bgriffin@slo.state.nm.us

nmstatelands.org

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Stephanie Garcia Richard
COMMISSIONER

State of New Mexico
Commissioner of Public Lands

310 OLD SANTA FE TRAIL
P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

COMMISSIONER'S OFFICE
Phone (505) 827-5760
Fax (505) 827-5766
www.nmstatelands.org

September 26, 2024

Select Water Solutions, LLC
1502 E Greene St
Carlsbad, NM 88220

Attn: Timsan Bricker

Re: Right-of-Entry Permit No.: **RE-7213 Frac Line ROW # R40609**

Dear Applicant:

Enclosed is the completed captioned Right-of-Entry permit. If any corrections are necessary, please let us know and we will retype or amend this permit as necessary.

The New Mexico State Land Office requires you to notify any surface lessees that will be impacted by your project prior to construction.

If you have any questions, or if we may be of further assistance, please do not hesitate to contact Samantha Martinez of my staff at (505) 827-4003.

Sincerely,

James S. Bordegaray
Director, Commercial Resources Division

JSB/sm



NEW MEXICO STATE LAND OFFICE
Commissioner of Public Lands
Stephanie Garcia Richard
New Mexico State Land Office Building
P.O. Box 1148, Santa Fe, NM 87504-1148

**RIGHT OF ENTRY PERMIT
CONTRACT NO. RE – 7213**

This Agreement is made and entered into between the COMMISSIONER OF PUBLIC LANDS (the "Commissioner") and

**Select Water Solutions, LLC
1502 E Greene St
Carlsbad, NM 88220**

("Permittee"). The parties agree as follows:

1. RIGHT OF ENTRY ("ROE")

The Commissioner grants to Permittee, and its authorized representatives, employees, and contractors, permission to use the state trust lands identified below (the "Premises"), and ingress and egress to the Premises, for the sole purposes of (1) surveying/conducting an environmental investigation on the site of State Land Office Right of Way Easement No. **R-40609** (the "ROW"), **Frac Line ROW**, and (2) conducting surface reclamation activities, including removal of equipment and debris, and any required remediation per 19.2.100.67 NMAC, located within or adjacent to the ROW.

The property is situated in the following location in **Chaves County**, New Mexico, and include an additional 20' on either side of the ROW:

Section	Township	Range	Subdivision	County	Longitude/Latitude
26	15S	28E	NW4SE4, SW4SE4	Chaves	32.98281/-104.10047

2. TERM AND TERMINATION

Right of entry is granted for a term of **180 days**, commencing on the execution date of this document by the Commissioner of Public Lands.

3. FEES

- \$ 50.00 Application Fee
- \$ 500.00 Permit Fee
- \$ 550.00 Total Fee

RE-7213

4. CONDITIONS OF USE

- A. The issuance of this ROE does not guarantee that any subsequent lease, permit or any other instrument will be issued to Permittee for the Premises.
- B. No blading or widening of any roads that provide access to the Premises is permitted under this ROE.
- C. No sale of any material extracted from the Premises is allowed under this ROE.
- D. Permittee shall observe all applicable federal, state and local laws and regulations.
- E. Permittee shall take all reasonable precautions to prevent and suppress forest, brush and grass fires and prevent pollution of waters on or in the vicinity of the Premises.
- F. Permittee shall not block or disrupt roads or trails commonly in use.
- G. This ROE is subject to any and all easements and rights-of-way previously granted and now in force and affect.
- H. Permittee shall be responsible for repair and restitution for damage to any property or improvements as a result of activities related to this ROE.
- I. Prior to entering the Premises, Permittee must identify and contact any existing surface lessees. The grant of this ROE does not allow access across private lands.
- J. Permittee may utilize this ROE upon its execution for inspection of the Premises and to conduct any necessary tests or inspections. Permittee may not conduct remediation or reclamation work until it has submitted a written plan for such work, and received State Land Office approval.
- K. Personnel present on Premises: **Select Water Solutions, LLS and Elite Environmental services personnel.**
- L. Equipment and materials present on Premises: **Vehicles, heavy equipment, and associated equipment.**

5. SITE CONDITIONS

- A. No surface disturbance, other than soil tests, except as described in a reclamation plan submitted to and approved by the State Land Office.
- B. Access to the Premises shall be over existing roads.
- C. The natural environmental conditions that exist contemporaneously with this grant of ROE shall be preserved and protected. Permittee must follow all applicable environmental and cultural resource protection laws and regulations.

6. INDEMNITY

Permittee shall save, hold harmless, indemnify and defend the State of New Mexico, the Commissioner and Commissioner's employees, agents and contractors, in both their official and individual capacities, from any and all liability, claims, losses, damages, or expenses of any character or nature whatsoever, including but not limited to attorney's fees, court costs, loss of land value or use, third party claims, penalties, or removal, remedial or restoration costs arising out of, or alleged to arise out of Permittee's operations or presence on the Premises (or operations or presence of his representatives, employees, or contractors).

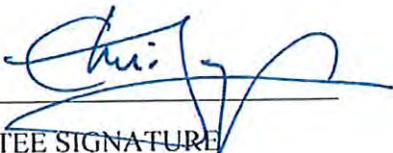
7. SURVIVAL OF TERMS

Permittee's obligations regarding indemnity, site conditions, and compliance with applicable standards and laws, shall survive the termination, cancellation or relinquishment of this Agreement, and any cause of action of the Commissioner to enforce any right, liability, claim, loss, damage or expense under those paragraphs shall not be deemed to accrue until the Commissioner's actual discovery of said right, liability, claim, loss, damage or expense.

8. NOTIFICATION

Permittee must notify the State Land Office immediately in the event Permittee or his representatives, employees, or contractors observe any spill, fire, or other emergency on the Premises, or if Permittee or his representatives, employees, or contractors experience any serious injury while on the Premises.

WITNESS the hands of PERMITTEE and COMMISSIONER on the day(s) and year entered below.



PERMITTEE SIGNATURE

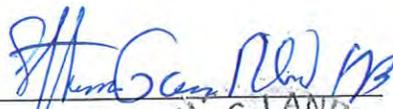
DATE: 09-25-2024

CHRIS GEORGE

CHIEF FINANCIAL OFFICER

PERMITTEE NAME AND TITLE (PRINT)

SEAL:

BY: 

Stephanie Garcia Richard
Commissioner of Public Lands

DATE: 09/26/2024





Attachment V
Site Photographs



1 Mid-point looking NE



2 Mid-point looking S on W side



3 N point looking S on E side



4 S point looking N on W side

60

90

120

150

180

210

☉ 138° SE (T) ● 32.982714, -104.100418 ±3 m ▲ 1068m



Red deer

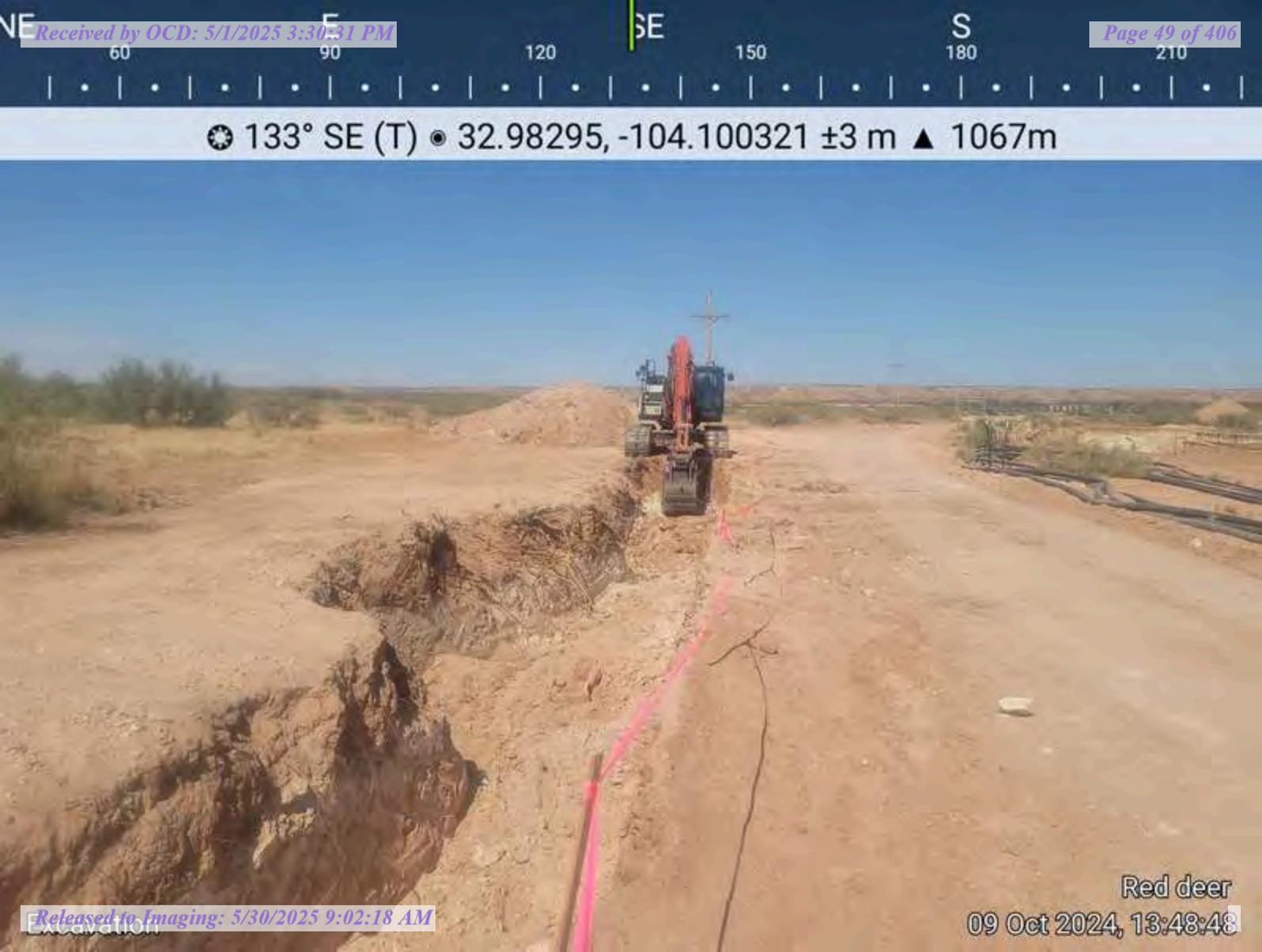
60

90

120

150

☀ 133° SE (T) ● 32.98295, -104.100321 ±3 m ▲ 1067m



W
270

NW

300

330

N
0

30

☉ 338° NW (T) ● 32.982954, -104.100326 ±3 m ▲ 1067m



SE

S

SW

W

120

150

180

210

240

270

☉ 197° S (T) ● 32.983216, -104.100266 ±3 m ▲ 1065m



Red deer

South East Elevation

☉ 337°NW (T) ● 32.982989°, -104.100136° ▲ 3292ft



North East Elevation

☉ 234°SW (T) ● 32.983168°, -104.100253° ▲ 3572ft



09 Oct 2024 12:52:35

North East Elevation

☉ 217°SW (T) ● 32.983181°, -104.100267° ▲ 3572ft



09 Oct 2024 12:52:40

North Elevation

☉ 200°S (T) ● 32.983201°, -104.100267° ▲ 3572ft



East Elevation

☉ 275°W (T) ● 32.982993°, -104.100296° ▲ 3570ft



09 Oct 2024 12:52:54

South Elevation

☉ 345°N (T) ● 32.982997°, -104.100313° ▲ 3570ft



09 Oct 2024, 12:52:56

South Elevation

☉ 345°N (T) ● 32.983010°, -104.100307° ▲ 3571ft



09 Oct 2024, 12:53:01

North East Elevation

☀ 223°SW (T) ● 32.982876°, -104.100324° ▲ 3573ft



09 Oct 2024, 12:53:16

North East Elevation

☉ 207°SW (T) ● 32.982889°, -104.100334° ▲ 3573ft



East Elevation

☀ 282°W (T) ● 32.982890°, -104.100336° ▲ 3573ft



South Elevation

☉ 1°N (T) ● 32.982728°, -104.100405° ▲ 3569ft



09 Oct 2024, 12:53:40

South Elevation

☉ 5°N (T) ☉ 32.982730°, -104.100398° ▲ 3569ft



09 Oct 2024, 12:53:42

South Elevation

☉ 355°N (T) ● 32.982732°, -104.100396° ▲ 3568ft



09 Oct 2024, 12:53:44

North Elevation

32°58'58"N, 104°6'1"W ±22ft ▲ 354 ft

11 Nov 2024, 7:43 AM



South Elevation

Received by OCD: 5/1/2025 3:30:31 PM

Page 66 of 406

32°20'N (T) ● 32°58'58"N, 104°6'1"W ±13ft ▲ 3570ft



11 Nov 2024, 14:33:31

Released to Imaging: 5/30/2025 9:02:18 AM

West Elevation

3570ft
±13ft ▲
32°58'58"N, 104°6'1"W
103°E (T) ●



11 Nov 2024, 14:33:5

South Elevation

32°N (T) ● 32°58'57"N, 104°6'1"W ±13ft ▲ 354ft



11 Nov 2024 11:43:44

South Elevation

Received by OCD: 5/1/2025 3:30:31 PM

Page 69 of 406

3540 ft
10°N (T) ● 32°58'57"N, 104°6'1"W ±13ft ▲ 3540 ft



11 Nov 2024, 4:34

Released to Imaging: 5/30/2025 9:02:18 AM

South Elevation

347°N (T) ● 32°58'58"N, 104°6'1"W ±13ft ▲ 354ft



11 Nov 2024 14:34:44

North Elevation

C 97°S (T) ● 32°58'59"N, 104°6'1"W ±13ft ▲ 3530ft



11 Nov 2024 14:35

South Elevation

347°N (T) ● 32°58'59"N, 104°6'1"W ±13ft ▲ 3533ft

Received by OCD: 5/1/2025 3:30:31 PM

Page 72 of 406

11 Nov 2024, 14:35



Released to Imaging: 5/30/2025 9:02:18 AM

30

60

90

120

80°E (T) ● 32.98312, -104.100389 ±3m ▲ 1062m



Back fill

Red Deer

300

330

N
0

30

☉ 345°NW (T) ● 32.982601, -104.10044 ±3m ▲ 1061m



Back fill

Red Deer

☉ 95°E (T) ● 32.982761, -104.100499 ±3m ▲ 1062m



Back fill

0

30

60

90

☉ 34°NE (T) ● 32.98265, -104.100443 ±3m ▲ 1063m



Back fill

Red Deer

☉ 9°N (T) ● 32.982663, -104.100454 ±3m ▲ 1062m



Back fill

Red Deer

120

150

180

210

S

☉ 157°SE (T) ● 32.98335, -104.100227 ±4m ▲ 1059m



Back fill

Red Deer

☉ 30°N (T) ● 32.982789, -104.100346 ±3m ▲ 1059m



Back fill

Red Deer

330

0

30

60

☉ 16°N (T) ● 32.982701, -104.100394 ±3m ▲ 1061m



Back fill

Red Deer

South Elevation

☉ 9°N (T) ● 32.983260°, -104.099975° ±9ft ▲ 3570ft



03 Feb 2025 08:22:52

West Elevation

☉ 111°E (T) ● 32.983331°, -104.099985° ±6ft ▲ 3573ft



03 Feb 2025, 08:23:16

North Elevation

☉ 176°S (T) ● 32.983340°, -104.099966° ±6ft ▲ 3573ft



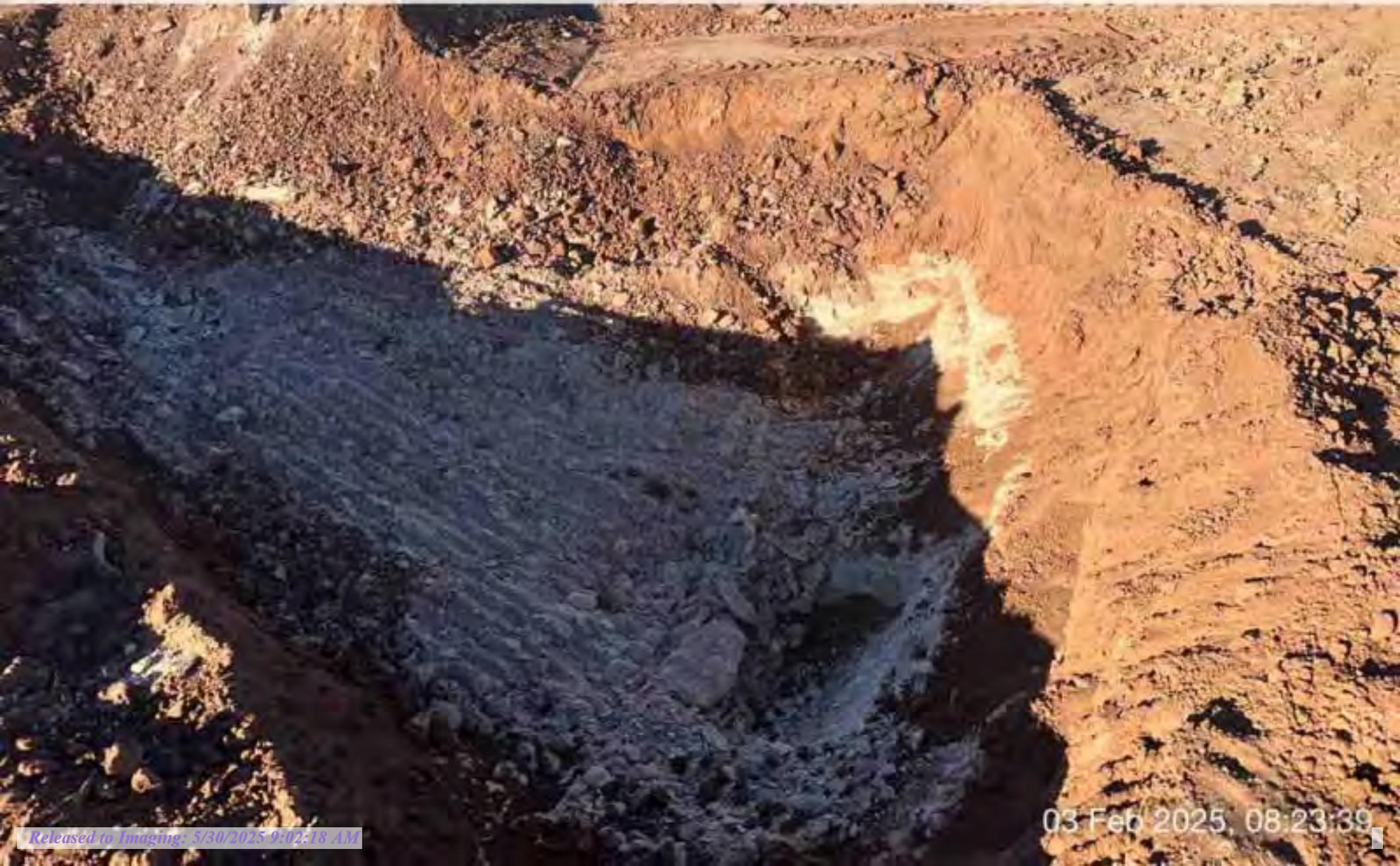
North Elevation

☉ 191°S (T) ● 32.983342°, -104.099963° ±6ft ▲ 3571ft



East Elevation

☉ 251°W (T) ● 32.983326°, -104.099920° ±6ft ▲ 3565ft



03 Feb 2025, 08:23:39

North East Elevation

☉ 229°SW (T) ● 32.983325°, -104.099924° ±6ft ▲ 3568ft



03 Feb 2025, 08:23:41

North West Elevation

☉ 132°SE (T) ● 32.983420°, -104.100139° ±16ft ▲ 3576ft



04 Feb 2025, 09:50:32

North Elevation

☉ 189°S (T) ● 32.983420°, -104.100139° ±16ft ▲ 3576ft



South West Elevation

☉ 57°NE (T) ● 32.983252°, -104.100061° ±6ft ▲ 3568ft



04 Feb 2025 11:10:18

West Elevation

☉ 89°E (T) ● 32.983251°, -104.100060° ±6ft ▲ 3569ft



04 Feb 2025, 11:10:20

South Elevation

☉ 14°N (T) ● 32.983241°, -104.100002° ±13ft ▲ 3568ft



South Elevation

☉ 339°N (T) ● 32.983235°, -104.099992° ±19ft ▲ 3566ft



North East Elevation

☉ 212°SW (T) ● 32.983191°, -104.100011° ±16ft ▲ 3569ft



East Elevation

☉ 290°W (T) ● 32.983295°, -104.099924° ±9ft ▲ 3567ft



04 Feb 2025 11:11:58

East Elevation

☉ 257°W (T) ● 32.983294°, -104.099920° ±9ft ▲ 3566ft



North East Elevation

☉ 217°SW (T) ● 32.983350°, -104.099931° ±6ft ▲ 3565ft



East Elevation

☉ 252°W (T) ☉ 32.983351°, -104.099931° ±6ft ▲ 3564ft



04 Feb 2025 11:12:29

West Elevation

☀ 92°E (T) ● 32.983164°, -104.100083° ±6ft ▲ 3563ft



05 Feb 2025 08:38:01

South East Elevation

☉ 303°NW (T) ● 32.983137°, -104.100014° ±6ft ▲ 3562ft



05 Feb 2025, 08:38:21

North West Elevation

☉ 145°SE (T) ● 32.983168°, -104.100058° ±9ft ▲ 3568ft



05 Feb 2025, 11:14:36

North West Elevation

☉ 113°SE (T) ☉ 32.983175°, -104.100067° ±9ft ▲ 3568ft



05 Feb 2025, 11:14:38

West Elevation

☉ 69°E (T) ● 32.983171°, -104.100077° ±13ft ▲ 3568ft



South West Elevation

☉ 53°NE (T) ● 32.983170°, -104.100077° ±13ft ▲ 3567ft



05 Feb 2025 11:14:59

North West Elevation

☉ 139°SE (T) ● 32.983193°, -104.100085° ±13ft ▲ 3566ft



05 Feb 2025 12:52:34

South East Elevation

☉ 306°NW (T) ● 32.983134°, -104.100004° ±9ft ▲ 3562ft



06 Feb 2025, 10:10:07

South Elevation

☉ 13°N (T) ● 32.983215°, -104.099908° ±9ft ▲ 3571ft



17 Feb 2025, 10:40:03

South West Elevation

☉ 30°NE (T) ● 32.983221°, -104.099911° ±9ft ▲ 3571ft



South West Elevation

☉ 57°NE (T) ● 32.983233°, -104.099912° ±6ft ▲ 3571ft



South Elevation

☉ 346°N (T) ● 32.983337°, -104.099906° ±13ft ▲ 3571ft



South Elevation

☉ 4°N (T) ● 32.983179°, -104.099985° ±22ft ▲ 3573ft



17 Feb 2025, 11:44:35

South Elevation

☉ 342°N (T) ● 32.983195°, -104.099925° ±13ft ▲ 3573ft



17 Feb 2025, 11:44:39

South Elevation

☉ 350°N (T) ● 32.983164°, -104.099999° ±26ft ▲ 3549ft



South East Elevation

☉ 329°NW (T) ● 32.983162°, -104.100005° ±22ft ▲ 3572ft



South East Elevation

☉ 306°NW (T) ● 32.983130°, -104.100027° ±13ft ▲ 3573ft



17 Feb 2025, 12:50:45

South East Elevation

☉ 314°NW (T) ● 32.983131°, -104.100040° ±26ft ▲ 3532ft



17 Feb 2025, 14:54:33

South Elevation

☉ 346°N (T) ● 32.983126°, -104.100040° ±9ft ▲ 3572ft



17 Feb 2025, 14:54:35

South West Elevation

☀ 61°NE (T) ● 32.983165°, -104.099927° ±19ft ▲ 3571ft



South West Elevation

☉ 25°NE (T) ● 32.983159°, -104.099930° ±13ft ▲ 3572ft



South West Elevation

☉ 25°NE (T) ● 32.983170°, -104.099921° ±9ft ▲ 3571ft



17 Feb 2025, 15:16:29



Attachment VI
Lab Analytical Results



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Timsan Bricker
 Select Energy Services
 7904 W Hwy 80
 Midland, Texas 79706
 Generated 10/19/2023 1:18:25 PM

JOB DESCRIPTION

Red Deer
 SDG NUMBER 2023-014

JOB NUMBER

890-5431-1



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
10/19/2023 1:18:25 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

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Client: Select Energy Services
Project/Site: Red Deer

Laboratory Job ID: 890-5431-1
SDG: 2023-014

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Definitions/Glossary

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 890-5431-1
SDG: 2023-014

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 890-5431-1
SDG: 2023-014

Job ID: 890-5431-1

Laboratory: Eurofins Carlsbad**Narrative****Job Narrative
890-5431-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/10/2023 2:43 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 26.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: West 1 (890-5431-1), West 2 (890-5431-2), East 1 (890-5431-3) and East 2 (890-5431-4).

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The following samples were diluted to bring the concentration of target analytes within the calibration range: West 1 (890-5431-1), West 2 (890-5431-2) and East 1 (890-5431-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Client Sample Results

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 890-5431-1
SDG: 2023-014

Client Sample ID: West 1
Date Collected: 10/10/23 01:30
Date Received: 10/10/23 14:43

Lab Sample ID: 890-5431-1
Matrix: Solid

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<48.5	U	48.5	20.5	mg/Kg			10/17/23 17:18	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<48.5	U	48.5	20.5	mg/Kg		10/17/23 12:09	10/17/23 17:18	1
Diesel Range Organics (Over C10-C28)	<48.5	U	48.5	20.5	mg/Kg		10/17/23 12:09	10/17/23 17:18	1
Oil Range Organics (Over C28-C36)	<48.5	U	48.5	20.5	mg/Kg		10/17/23 12:09	10/17/23 17:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		65 - 130				10/17/23 12:09	10/17/23 17:18	1
o-Terphenyl	89		65 - 130				10/17/23 12:09	10/17/23 17:18	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7330		99.2	49.6	mg/Kg		10/17/23 16:32	10/17/23 19:07	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	82.1				%			10/17/23 11:00	1

Client Sample ID: West 2
Date Collected: 10/10/23 01:35
Date Received: 10/10/23 14:43

Lab Sample ID: 890-5431-2
Matrix: Solid

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<48.1	U	48.1	20.3	mg/Kg			10/17/23 16:58	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<48.1	U	48.1	20.3	mg/Kg		10/17/23 12:09	10/17/23 16:58	1
Diesel Range Organics (Over C10-C28)	<48.1	U	48.1	20.3	mg/Kg		10/17/23 12:09	10/17/23 16:58	1
Oil Range Organics (Over C28-C36)	<48.1	U	48.1	20.3	mg/Kg		10/17/23 12:09	10/17/23 16:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		65 - 130				10/17/23 12:09	10/17/23 16:58	1
o-Terphenyl	79		65 - 130				10/17/23 12:09	10/17/23 16:58	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9820		99.8	49.9	mg/Kg		10/17/23 16:32	10/17/23 19:50	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	73.2				%			10/17/23 11:00	1

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Client Sample Results

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 890-5431-1
SDG: 2023-014

Client Sample ID: East 1

Lab Sample ID: 890-5431-3

Date Collected: 10/10/23 01:40

Matrix: Solid

Date Received: 10/10/23 14:43

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<48.7	U	48.7	20.5	mg/Kg			10/17/23 17:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<48.7	U	48.7	20.5	mg/Kg		10/17/23 12:09	10/17/23 17:59	1
Diesel Range Organics (Over C10-C28)	<48.7	U	48.7	20.5	mg/Kg		10/17/23 12:09	10/17/23 17:59	1
Oil Range Organics (Over C28-C36)	<48.7	U	48.7	20.5	mg/Kg		10/17/23 12:09	10/17/23 17:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		65 - 130				10/17/23 12:09	10/17/23 17:59	1
o-Terphenyl	101		65 - 130				10/17/23 12:09	10/17/23 17:59	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5100		99.6	49.8	mg/Kg		10/17/23 16:32	10/17/23 20:11	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	84.8				%			10/17/23 11:00	1

Client Sample ID: East 2

Lab Sample ID: 890-5431-4

Date Collected: 10/10/23 01:45

Matrix: Solid

Date Received: 10/10/23 14:43

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<48.7	U	48.7	20.6	mg/Kg			10/17/23 17:39	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<48.7	U	48.7	20.6	mg/Kg		10/17/23 12:09	10/17/23 17:39	1
Diesel Range Organics (Over C10-C28)	<48.7	U	48.7	20.6	mg/Kg		10/17/23 12:09	10/17/23 17:39	1
Oil Range Organics (Over C28-C36)	<48.7	U	48.7	20.6	mg/Kg		10/17/23 12:09	10/17/23 17:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		65 - 130				10/17/23 12:09	10/17/23 17:39	1
o-Terphenyl	98		65 - 130				10/17/23 12:09	10/17/23 17:39	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4030		9.96	4.98	mg/Kg		10/17/23 16:32	10/17/23 18:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	73.0				%			10/17/23 11:00	1

Eurofins Carlsbad

Surrogate Summary

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 890-5431-1
SDG: 2023-014

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(65-130)	(65-130)
890-5431-1	West 1	92	89
890-5431-2	West 2	80	79
890-5431-3	East 1	100	101
890-5431-4	East 2	99	98
LCS 860-126572/2-A	Lab Control Sample	99	94
LCSD 860-126572/3-A	Lab Control Sample Dup	93	87
MB 860-126572/1-A	Method Blank	92	90

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

- 1
- 2
- 3
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QC Sample Results

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 890-5431-1
SDG: 2023-014

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 860-126572/1-A
Matrix: Solid
Analysis Batch: 126639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 126572

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	21.0	mg/Kg		10/16/23 17:16	10/17/23 10:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	21.0	mg/Kg		10/16/23 17:16	10/17/23 10:40	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	21.0	mg/Kg		10/16/23 17:16	10/17/23 10:40	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	92		65 - 130	10/16/23 17:16	10/17/23 10:40	1
o-Terphenyl	90		65 - 130	10/16/23 17:16	10/17/23 10:40	1

Lab Sample ID: LCS 860-126572/2-A
Matrix: Solid
Analysis Batch: 126639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 126572

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	952	954.1		mg/Kg		100	70 - 135

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	99		65 - 130
o-Terphenyl	94		65 - 130

Lab Sample ID: LCSD 860-126572/3-A
Matrix: Solid
Analysis Batch: 126639

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 126572

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	933	870.9		mg/Kg		93	70 - 135	8	35
Diesel Range Organics (Over C10-C28)	925	877.5		mg/Kg		95	70 - 135	8	35

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1-Chlorooctane	93		65 - 130
o-Terphenyl	87		65 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-126786/1-A
Matrix: Solid
Analysis Batch: 126721

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 126786

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<10.0	U	10.0	5.00	mg/Kg		10/17/23 16:32	10/17/23 16:47	1

Eurofins Carlsbad

QC Sample Results

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 890-5431-1
SDG: 2023-014

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-126786/2-A
Matrix: Solid
Analysis Batch: 126721

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 126786

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	48.48		mg/Kg		97	80 - 120

Lab Sample ID: LCSD 860-126786/3-A
Matrix: Solid
Analysis Batch: 126721

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 126786

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	50.0	48.48		mg/Kg		97	80 - 120	0	20

Lab Sample ID: 890-5431-4 MS
Matrix: Solid
Analysis Batch: 126721

Client Sample ID: East 2
Prep Type: Total/NA
Prep Batch: 126786

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	4030		49.8	4013	4	mg/Kg		-33	80 - 120

Lab Sample ID: 890-5431-4 MSD
Matrix: Solid
Analysis Batch: 126721

Client Sample ID: East 2
Prep Type: Total/NA
Prep Batch: 126786

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4030		49.7	4000	4	mg/Kg		-59	80 - 120	0	15

Method: SM 2540G - Total, Fixed, and Volatile Solids

Lab Sample ID: MB 860-126769/1
Matrix: Solid
Analysis Batch: 126769

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids	100.0				%			10/17/23 11:00	1

Lab Sample ID: 890-5431-1 DU
Matrix: Solid
Analysis Batch: 126769

Client Sample ID: West 1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Solids	82.1		82.15		%		0.08	10

QC Association Summary

Client: Select Energy Services
 Project/Site: Red Deer

Job ID: 890-5431-1
 SDG: 2023-014

GC Semi VOA

Analysis Batch: 123288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5431-1	West 1	Total/NA	Solid	8015 NM	
890-5431-2	West 2	Total/NA	Solid	8015 NM	
890-5431-3	East 1	Total/NA	Solid	8015 NM	
890-5431-4	East 2	Total/NA	Solid	8015 NM	

Prep Batch: 126572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5431-1	West 1	Total/NA	Solid	8015NM Prep	
890-5431-2	West 2	Total/NA	Solid	8015NM Prep	
890-5431-3	East 1	Total/NA	Solid	8015NM Prep	
890-5431-4	East 2	Total/NA	Solid	8015NM Prep	
MB 860-126572/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-126572/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-126572/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 126639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-126572/1-A	Method Blank	Total/NA	Solid	8015B NM	126572
LCS 860-126572/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	126572
LCSD 860-126572/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	126572

Analysis Batch: 126645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5431-1	West 1	Total/NA	Solid	8015B NM	126572
890-5431-2	West 2	Total/NA	Solid	8015B NM	126572

Analysis Batch: 126650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5431-3	East 1	Total/NA	Solid	8015B NM	126572
890-5431-4	East 2	Total/NA	Solid	8015B NM	126572

HPLC/IC

Analysis Batch: 126721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5431-1	West 1	Total/NA	Solid	300.0	126786
890-5431-2	West 2	Total/NA	Solid	300.0	126786
890-5431-3	East 1	Total/NA	Solid	300.0	126786
890-5431-4	East 2	Total/NA	Solid	300.0	126786
MB 860-126786/1-A	Method Blank	Total/NA	Solid	300.0	126786
LCS 860-126786/2-A	Lab Control Sample	Total/NA	Solid	300.0	126786
LCSD 860-126786/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	126786
890-5431-4 MS	East 2	Total/NA	Solid	300.0	126786
890-5431-4 MSD	East 2	Total/NA	Solid	300.0	126786

Prep Batch: 126786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5431-1	West 1	Total/NA	Solid	300_Prep	
890-5431-2	West 2	Total/NA	Solid	300_Prep	
890-5431-3	East 1	Total/NA	Solid	300_Prep	
890-5431-4	East 2	Total/NA	Solid	300_Prep	

Eurofins Carlsbad

QC Association Summary

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 890-5431-1
SDG: 2023-014

HPLC/IC (Continued)

Prep Batch: 126786 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-126786/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-126786/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-126786/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
890-5431-4 MS	East 2	Total/NA	Solid	300_Prep	
890-5431-4 MSD	East 2	Total/NA	Solid	300_Prep	

General Chemistry

Analysis Batch: 126769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5431-1	West 1	Total/NA	Solid	SM 2540G	
890-5431-2	West 2	Total/NA	Solid	SM 2540G	
890-5431-3	East 1	Total/NA	Solid	SM 2540G	
890-5431-4	East 2	Total/NA	Solid	SM 2540G	
MB 860-126769/1	Method Blank	Total/NA	Solid	SM 2540G	
890-5431-1 DU	West 1	Total/NA	Solid	SM 2540G	

Lab Chronicle

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 890-5431-1
SDG: 2023-014

Client Sample ID: West 1

Lab Sample ID: 890-5431-1

Date Collected: 10/10/23 01:30

Matrix: Solid

Date Received: 10/10/23 14:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			123288	10/17/23 17:18	CZT	EET HOU
Total/NA	Prep	8015NM Prep			10.30 g	10 mL	126572	10/17/23 12:09	SYB	EET HOU
Total/NA	Analysis	8015B NM		1			126645	10/17/23 17:18	T1S	EET HOU
Total/NA	Prep	300_Prep			5.04 g	50 mL	126786	10/17/23 16:32	RBNS	EET HOU
Total/NA	Analysis	300.0		10			126721	10/17/23 19:07	RBNS	EET HOU
Total/NA	Analysis	SM 2540G		1			126769	10/17/23 11:00	JM	EET HOU

Client Sample ID: West 2

Lab Sample ID: 890-5431-2

Date Collected: 10/10/23 01:35

Matrix: Solid

Date Received: 10/10/23 14:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			123288	10/17/23 16:58	CZT	EET HOU
Total/NA	Prep	8015NM Prep			10.40 g	10 mL	126572	10/17/23 12:09	SYB	EET HOU
Total/NA	Analysis	8015B NM		1			126645	10/17/23 16:58	T1S	EET HOU
Total/NA	Prep	300_Prep			5.01 g	50 mL	126786	10/17/23 16:32	RBNS	EET HOU
Total/NA	Analysis	300.0		10			126721	10/17/23 19:50	RBNS	EET HOU
Total/NA	Analysis	SM 2540G		1			126769	10/17/23 11:00	JM	EET HOU

Client Sample ID: East 1

Lab Sample ID: 890-5431-3

Date Collected: 10/10/23 01:40

Matrix: Solid

Date Received: 10/10/23 14:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			123288	10/17/23 17:59	CZT	EET HOU
Total/NA	Prep	8015NM Prep			10.27 g	10 mL	126572	10/17/23 12:09	SYB	EET HOU
Total/NA	Analysis	8015B NM		1			126650	10/17/23 17:59	T1S	EET HOU
Total/NA	Prep	300_Prep			5.02 g	50 mL	126786	10/17/23 16:32	RBNS	EET HOU
Total/NA	Analysis	300.0		10			126721	10/17/23 20:11	RBNS	EET HOU
Total/NA	Analysis	SM 2540G		1			126769	10/17/23 11:00	JM	EET HOU

Client Sample ID: East 2

Lab Sample ID: 890-5431-4

Date Collected: 10/10/23 01:45

Matrix: Solid

Date Received: 10/10/23 14:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			123288	10/17/23 17:39	CZT	EET HOU
Total/NA	Prep	8015NM Prep			10.26 g	10 mL	126572	10/17/23 12:09	SYB	EET HOU
Total/NA	Analysis	8015B NM		1			126650	10/17/23 17:39	T1S	EET HOU
Total/NA	Prep	300_Prep			5.02 g	50 mL	126786	10/17/23 16:32	RBNS	EET HOU
Total/NA	Analysis	300.0		1			126721	10/17/23 18:13	RBNS	EET HOU
Total/NA	Analysis	SM 2540G		1			126769	10/17/23 11:00	JM	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 890-5431-1
SDG: 2023-014

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-53	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over C28-C36)

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Method Summary

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 890-5431-1
SDG: 2023-014

Method	Method Description	Protocol	Laboratory
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET HOU
SM 2540G	Total, Fixed, and Volatile Solids	SM	EET HOU
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	EPA	EET HOU
8015NM Prep	Microextraction	SW846	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200



Sample Summary

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 890-5431-1
SDG: 2023-014

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-5431-1	West 1	Solid	10/10/23 01:30	10/10/23 14:43
890-5431-2	West 2	Solid	10/10/23 01:35	10/10/23 14:43
890-5431-3	East 1	Solid	10/10/23 01:40	10/10/23 14:43
890-5431-4	East 2	Solid	10/10/23 01:45	10/10/23 14:43

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3324
 El Paso, TX (915) 595-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199



Environment Testing

LAB

Work Order No:

www.xenco.com Page of

Project Manager: **TIMIAN BRICKER** Bill to: (if different)
 Company Name: **SELECT** Company Name:
 Address: **1502 E GREENE ST** Address:
 City, State ZIP: **CARLSBAD, NM 87220** City, State ZIP:
 Phone: **575-700-7551** Email: **timian.bricker@selectenv.com**

Program: UST/PST PRP Brownfields RRC Superfund
 State of Project: Level II Level III PST/UST TRRP Level IV
 Reporting: Level II Level III PST/UST TRRP Level IV
 Deliverables: EDD ADaPT Other:

Project Name: **RED DEER** Turn Around: Routine Rush
 Project Number: **2023-D14** Due Date:
 Project Location: **CHAVES CD** TAT starts the day received by the lab, if received by 4:30pm
 Sampler's Name: **TIMIAN BRICKER** Wet Ice: Yes No
 PO #: Thermometer ID: **TMA 607**
 Cooler Custody Seals: Yes No Correction Factor: **-0.2**
 Sample Custody Seals: Yes No Temperature Reading: **26.2**
 Total Containers: Corrected Temperature: **26.0**

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters		Pres. Code
							Temp Blank:	Wet Ice:	
WEST 1	S	10/10	1:30	0					
WEST 2	S	10/10	1:35	0					
EAST 1	S	10/10	1:40	0					
EAST 2	S	10/10	1:45	0					



890-5431 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Timian Bricker</i>	<i>Abel</i>	14:42 10/10			

Revised Date: 08/25/2020 Rev. 2020.2



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Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad, NM 88220
 Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



eurofins
 Environment Testing

Client Information (Sub Contract Lab)

Client Contact: **Kramer Jessica** | Phone: **Jessica.Kramer@eurofins.com** | Email: **Jessica.Kramer@eurofins.com** | State of Origin: **New Mexico**

Shipping/Receiving: **Eurofins Environment Testing South Cent** | Company: **NELAP Texas** | Accreditation Required (See note): **NELAP Texas**

COC No: **890-1612.1** | Page: **Page 1 of 1**

Address: **4145 Greenbriar Dr** | Due Date Requested: **10/16/2023**

City: **Stafford** | TAT Requested (days):

State, Zip: **TX, 77477** | PO #:

Phone: **281-240-4200 (ea)** | W/O #:

Email: | Project #: **89001304**

Project Name: **Red Deer** | SSOV#:

Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Soil, Sediment, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Job #	Preservation Codes
West 1 (890-5431-1)	10/10/23	01:30	Mountain	Solid	X	X	8015MOD_Calc	890-5431 1	A HCL B NaOH C ZN Acetate D Nitric Acid E NaHSO4 F MeOH G Amelhor H Ascorbic Acid I Ice J DI Water K EDTA L EDA M Hexane N None O AsAcO2 P Na2O4S Q Na2SO4S R Na2S2O3 S H2SO4 T TSP Dodecylsulfate U Acetone V MCAA W pH 4.5 Y Trizma Z other (specify)
West 2 (890-5431-2)	10/10/23	01:35	Mountain	Solid	X	X	8015MOD_NM/8015NM_S_Prep Full TPH		
East 1 (890-5431-3)	10/10/23	01:40	Mountain	Solid	X	X	2640G		
East 2 (890-5431-4)	10/10/23	01:45	Mountain	Solid	X	X			

Special Instructions/Note:

Temp: **1.0** IRID-HOU-369
 C/F: **0.0**
 Corrected Temp: **1.0**

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyze & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/estimates/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification

Unconfirmed **Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**

Deliverable Requested: I II III, IV Other (specify) **Primary Deliverable Rank: 2**

Empty Kit Relinquished by: | Date: | Method of Shipment:

Relinquished by: | Date/Time: | Company:

Relinquished by: | Date/Time: | Company:

Relinquished by: | Date/Time: | Company:

Custody Seals Intact: Yes No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks:

Special Instructions/QC Requirements: Return To Client Disposal By Lab Archive For **Months**

Received by: **Jessica Kramer** | Date/Time: **10/17/2023 9:32** | Company: **EX**

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Select Energy Services

Job Number: 890-5431-1

SDG Number: 2023-014

Login Number: 5431

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Select Energy Services

Job Number: 890-5431-1

SDG Number: 2023-014

Login Number: 5431

List Number: 2

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 10/12/23 11:27 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Timsan Bricker
Select Energy Services
7904 W Hwy 80
Midland, Texas 79706

Generated 11/6/2023 2:53:19 PM

JOB DESCRIPTION

Red Deer
SDG NUMBER Chaves Co

JOB NUMBER

880-35079-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701



Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
11/6/2023 2:53:19 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Select Energy Services
Project/Site: Red Deer

Laboratory Job ID: 880-35079-1
SDG: Chaves Co

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Definitions/Glossary

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

Job ID: 880-35079-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-35079-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/31/2023 11:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C

GC/MS VOA

Method 8260D: Sample is in a bulk jar.

S2 (880-35079-6), S3 (880-35079-7), S3 (880-35079-8), S4 (880-35079-9), S4 (880-35079-10), S6 (880-35079-12), S6 (880-35079-13), S7 (880-35079-14), S7 (880-35079-15), S8/EAST1 (880-35079-16) and S9/EAST2 (880-35079-17)

Method 8260D: Sample is in a bulk jar.

HN (880-35079-1), HW (880-35079-2), HE (880-35079-3), S1/WEST 1 (880-35079-4) and S2 (880-35079-5)

Method 8260D: Sample is in a bulk jar.

S5/WEST 2 (880-35079-11)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside the upper control limit: HE (880-35079-3). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The following samples were diluted to bring the concentration of target analytes within the calibration range: S1/WEST 1 (880-35079-4), S2 (880-35079-5), S4 (880-35079-10), S5/WEST 2 (880-35079-11) and S6 (880-35079-12). Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: Due to the high concentration of Chloride the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-129184 and analytical batch 860-129182 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method 2540G: The sample duplicate (DUP) precision for analytical batch 860-129437 was outside control limits. Sample

Case Narrative

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

Job ID: 880-35079-1 (Continued)

Laboratory: Eurofins Midland (Continued)

non-homogeneity is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample Results

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

Client Sample ID: HN

Lab Sample ID: 880-35079-1

Date Collected: 10/27/23 13:25

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 0'

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.000996	0.000381	mg/Kg		11/01/23 14:56	11/03/23 15:38	1
Toluene	<0.00121	U	0.00498	0.00121	mg/Kg		11/01/23 14:56	11/03/23 15:38	1
Ethylbenzene	<0.000303	U	0.000996	0.000303	mg/Kg		11/01/23 14:56	11/03/23 15:38	1
m,p-Xylenes	<0.000431	U	0.00199	0.000431	mg/Kg		11/01/23 14:56	11/03/23 15:38	1
o-Xylene	<0.000315	U	0.000996	0.000315	mg/Kg		11/01/23 14:56	11/03/23 15:38	1
Xylenes, Total	<0.000431	U	0.00199	0.000431	mg/Kg		11/01/23 14:56	11/03/23 15:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		56 - 150	11/01/23 14:56	11/03/23 15:38	1
4-Bromofluorobenzene (Surr)	104		68 - 152	11/01/23 14:56	11/03/23 15:38	1
Dibromofluoromethane (Surr)	102		53 - 142	11/01/23 14:56	11/03/23 15:38	1
Toluene-d8 (Surr)	96		70 - 130	11/01/23 14:56	11/03/23 15:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000431	U	0.00199	0.000431	mg/Kg			11/03/23 15:38	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<21.1	U	50.1	21.1	mg/Kg			11/03/23 14:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<21.1	U	50.1	21.1	mg/Kg		11/02/23 13:17	11/03/23 14:07	1
Diesel Range Organics (Over C10-C28)	<21.1	U	50.1	21.1	mg/Kg		11/02/23 13:17	11/03/23 14:07	1
Oil Range Organics (Over C28-C36)	<21.1	U	50.1	21.1	mg/Kg		11/02/23 13:17	11/03/23 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		65 - 130	11/02/23 13:17	11/03/23 14:07	1
o-Terphenyl	94		65 - 130	11/02/23 13:17	11/03/23 14:07	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	9.96	4.98	mg/Kg		11/02/23 11:31	11/02/23 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	93.6				%			11/03/23 14:22	1

Client Sample ID: HW

Lab Sample ID: 880-35079-2

Date Collected: 10/27/23 13:30

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 0'

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.000996	0.000381	mg/Kg		11/01/23 14:56	11/03/23 16:00	1
Toluene	<0.00121	U	0.00498	0.00121	mg/Kg		11/01/23 14:56	11/03/23 16:00	1
Ethylbenzene	<0.000303	U	0.000996	0.000303	mg/Kg		11/01/23 14:56	11/03/23 16:00	1

Eurofins Midland

Client Sample Results

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

Client Sample ID: HW

Lab Sample ID: 880-35079-2

Date Collected: 10/27/23 13:30

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 0'

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	<0.000431	U	0.00199	0.000431	mg/Kg		11/01/23 14:56	11/03/23 16:00	1
o-Xylene	<0.000315	U	0.000996	0.000315	mg/Kg		11/01/23 14:56	11/03/23 16:00	1
Xylenes, Total	<0.000431	U	0.00199	0.000431	mg/Kg		11/01/23 14:56	11/03/23 16:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		56 - 150				11/01/23 14:56	11/03/23 16:00	1
4-Bromofluorobenzene (Surr)	103		68 - 152				11/01/23 14:56	11/03/23 16:00	1
Dibromofluoromethane (Surr)	100		53 - 142				11/01/23 14:56	11/03/23 16:00	1
Toluene-d8 (Surr)	98		70 - 130				11/01/23 14:56	11/03/23 16:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000431	U	0.00199	0.000431	mg/Kg			11/03/23 16:00	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<21.1	U	50.0	21.1	mg/Kg			11/03/23 14:28	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<21.1	U	50.0	21.1	mg/Kg		11/02/23 13:17	11/03/23 14:28	1
Diesel Range Organics (Over C10-C28)	<21.1	U	50.0	21.1	mg/Kg		11/02/23 13:17	11/03/23 14:28	1
Oil Range Organics (Over C28-C36)	<21.1	U	50.0	21.1	mg/Kg		11/02/23 13:17	11/03/23 14:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		65 - 130				11/02/23 13:17	11/03/23 14:28	1
o-Terphenyl	119		65 - 130				11/02/23 13:17	11/03/23 14:28	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	9.98	4.99	mg/Kg		11/02/23 11:31	11/02/23 13:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	93.9				%			11/03/23 14:22	1

Client Sample ID: HE

Lab Sample ID: 880-35079-3

Date Collected: 10/27/23 13:35

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 0'

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00101	0.000386	mg/Kg		11/01/23 14:56	11/03/23 16:22	1
Toluene	<0.00122	U	0.00504	0.00122	mg/Kg		11/01/23 14:56	11/03/23 16:22	1
Ethylbenzene	<0.000307	U	0.00101	0.000307	mg/Kg		11/01/23 14:56	11/03/23 16:22	1
m,p-Xylenes	<0.000436	U	0.00202	0.000436	mg/Kg		11/01/23 14:56	11/03/23 16:22	1
o-Xylene	<0.000319	U	0.00101	0.000319	mg/Kg		11/01/23 14:56	11/03/23 16:22	1
Xylenes, Total	<0.000436	U	0.00202	0.000436	mg/Kg		11/01/23 14:56	11/03/23 16:22	1

Eurofins Midland

Client Sample Results

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

Client Sample ID: HE

Lab Sample ID: 880-35079-3

Date Collected: 10/27/23 13:35

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 0'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		56 - 150	11/01/23 14:56	11/03/23 16:22	1
4-Bromofluorobenzene (Surr)	103		68 - 152	11/01/23 14:56	11/03/23 16:22	1
Dibromofluoromethane (Surr)	104		53 - 142	11/01/23 14:56	11/03/23 16:22	1
Toluene-d8 (Surr)	96		70 - 130	11/01/23 14:56	11/03/23 16:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000436	U	0.00202	0.000436	mg/Kg			11/03/23 16:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<21.1	U	50.0	21.1	mg/Kg			11/03/23 15:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<21.1	U	50.0	21.1	mg/Kg		11/02/23 13:17	11/03/23 15:09	1
Diesel Range Organics (Over C10-C28)	<21.1	U	50.0	21.1	mg/Kg		11/02/23 13:17	11/03/23 15:09	1
Oil Range Organics (Over C28-C36)	<21.1	U	50.0	21.1	mg/Kg		11/02/23 13:17	11/03/23 15:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		65 - 130	11/02/23 13:17	11/03/23 15:09	1
o-Terphenyl	135	S1+	65 - 130	11/02/23 13:17	11/03/23 15:09	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.6		10.1	5.03	mg/Kg		11/02/23 11:31	11/02/23 13:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	89.7				%			11/03/23 14:22	1

Client Sample ID: S1/WEST 1

Lab Sample ID: 880-35079-4

Date Collected: 10/27/23 11:00

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 1'

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00100	0.000383	mg/Kg		11/01/23 14:56	11/03/23 16:43	1
Toluene	<0.00121	U	0.00500	0.00121	mg/Kg		11/01/23 14:56	11/03/23 16:43	1
Ethylbenzene	<0.000304	U	0.00100	0.000304	mg/Kg		11/01/23 14:56	11/03/23 16:43	1
m,p-Xylenes	<0.000433	U	0.00200	0.000433	mg/Kg		11/01/23 14:56	11/03/23 16:43	1
o-Xylene	<0.000316	U	0.00100	0.000316	mg/Kg		11/01/23 14:56	11/03/23 16:43	1
Xylenes, Total	<0.000433	U	0.00200	0.000433	mg/Kg		11/01/23 14:56	11/03/23 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		56 - 150	11/01/23 14:56	11/03/23 16:43	1
4-Bromofluorobenzene (Surr)	105		68 - 152	11/01/23 14:56	11/03/23 16:43	1
Dibromofluoromethane (Surr)	102		53 - 142	11/01/23 14:56	11/03/23 16:43	1
Toluene-d8 (Surr)	95		70 - 130	11/01/23 14:56	11/03/23 16:43	1

Eurofins Midland

Client Sample Results

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

Client Sample ID: S1/WEST 1

Lab Sample ID: 880-35079-4

Date Collected: 10/27/23 11:00

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 1'

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000433	U	0.00200	0.000433	mg/Kg	-		11/03/23 16:43	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<21.0	U	49.8	21.0	mg/Kg	-		11/03/23 15:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<21.0	U	49.8	21.0	mg/Kg	-	11/02/23 13:17	11/03/23 15:30	1
Diesel Range Organics (Over C10-C28)	<21.0	U	49.8	21.0	mg/Kg	-	11/02/23 13:17	11/03/23 15:30	1
Oil Range Organics (Over C28-C36)	<21.0	U	49.8	21.0	mg/Kg	-	11/02/23 13:17	11/03/23 15:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		65 - 130				11/02/23 13:17	11/03/23 15:30	1
o-Terphenyl	129		65 - 130				11/02/23 13:17	11/03/23 15:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8830		100	50.1	mg/Kg	-	11/02/23 11:31	11/02/23 14:15	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	91.1				%	-		11/03/23 14:22	1

Client Sample ID: S2

Lab Sample ID: 880-35079-5

Date Collected: 10/27/23 11:05

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 0'

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00100	0.000384	mg/Kg	-	11/01/23 14:56	11/03/23 17:05	1
Toluene	<0.00122	U	0.00502	0.00122	mg/Kg	-	11/01/23 14:56	11/03/23 17:05	1
Ethylbenzene	<0.000306	U	0.00100	0.000306	mg/Kg	-	11/01/23 14:56	11/03/23 17:05	1
m,p-Xylenes	<0.000435	U	0.00201	0.000435	mg/Kg	-	11/01/23 14:56	11/03/23 17:05	1
o-Xylene	<0.000317	U	0.00100	0.000317	mg/Kg	-	11/01/23 14:56	11/03/23 17:05	1
Xylenes, Total	<0.000435	U	0.00201	0.000435	mg/Kg	-	11/01/23 14:56	11/03/23 17:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		56 - 150				11/01/23 14:56	11/03/23 17:05	1
4-Bromofluorobenzene (Surr)	102		68 - 152				11/01/23 14:56	11/03/23 17:05	1
Dibromofluoromethane (Surr)	105		53 - 142				11/01/23 14:56	11/03/23 17:05	1
Toluene-d8 (Surr)	94		70 - 130				11/01/23 14:56	11/03/23 17:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000435	U	0.00201	0.000435	mg/Kg	-		11/03/23 17:05	1

Eurofins Midland

Client Sample Results

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

Client Sample ID: S2

Lab Sample ID: 880-35079-5

Date Collected: 10/27/23 11:05

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 0'

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<21.2	U	50.2	21.2	mg/Kg			11/03/23 15:50	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<21.2	U	50.2	21.2	mg/Kg		11/02/23 13:17	11/03/23 15:50	1
Diesel Range Organics (Over C10-C28)	<21.2	U	50.2	21.2	mg/Kg		11/02/23 13:17	11/03/23 15:50	1
Oil Range Organics (Over C28-C36)	<21.2	U	50.2	21.2	mg/Kg		11/02/23 13:17	11/03/23 15:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		65 - 130	11/02/23 13:17	11/03/23 15:50	1
o-Terphenyl	119		65 - 130	11/02/23 13:17	11/03/23 15:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5460		99.8	49.9	mg/Kg		11/02/23 11:31	11/02/23 15:13	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	92.1				%			11/03/23 14:22	1

Client Sample ID: S2

Lab Sample ID: 880-35079-6

Date Collected: 10/27/23 11:10

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 1'

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00101	0.000386	mg/Kg		11/02/23 09:36	11/02/23 14:02	1
Toluene	<0.00122	U	0.00504	0.00122	mg/Kg		11/02/23 09:36	11/02/23 14:02	1
Ethylbenzene	<0.000307	U	0.00101	0.000307	mg/Kg		11/02/23 09:36	11/02/23 14:02	1
m,p-Xylenes	<0.000436	U	0.00202	0.000436	mg/Kg		11/02/23 09:36	11/02/23 14:02	1
o-Xylene	<0.000319	U	0.00101	0.000319	mg/Kg		11/02/23 09:36	11/02/23 14:02	1
Xylenes, Total	<0.000436	U	0.00202	0.000436	mg/Kg		11/02/23 09:36	11/02/23 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		56 - 150	11/02/23 09:36	11/02/23 14:02	1
4-Bromofluorobenzene (Surr)	109		68 - 152	11/02/23 09:36	11/02/23 14:02	1
Dibromofluoromethane (Surr)	97		53 - 142	11/02/23 09:36	11/02/23 14:02	1
Toluene-d8 (Surr)	105		70 - 130	11/02/23 09:36	11/02/23 14:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000436	U	0.00202	0.000436	mg/Kg			11/02/23 14:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<21.1	U	50.1	21.1	mg/Kg			11/03/23 18:35	1

Eurofins Midland

Client Sample Results

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

Client Sample ID: S2

Lab Sample ID: 880-35079-6

Date Collected: 10/27/23 11:10

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 1'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<21.1	U	50.1	21.1	mg/Kg		11/02/23 13:17	11/03/23 18:35	1
Diesel Range Organics (Over C10-C28)	<21.1	U	50.1	21.1	mg/Kg		11/02/23 13:17	11/03/23 18:35	1
Oil Range Organics (Over C28-C36)	<21.1	U	50.1	21.1	mg/Kg		11/02/23 13:17	11/03/23 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		65 - 130	11/02/23 13:17	11/03/23 18:35	1
o-Terphenyl	109		65 - 130	11/02/23 13:17	11/03/23 18:35	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1430		10.0	5.02	mg/Kg		11/02/23 11:31	11/02/23 15:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	93.3				%			11/03/23 14:22	1

Client Sample ID: S3

Lab Sample ID: 880-35079-7

Date Collected: 10/27/23 11:15

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 0'

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00101	0.000386	mg/Kg		11/02/23 09:36	11/02/23 14:23	1
Toluene	<0.00122	U	0.00505	0.00122	mg/Kg		11/02/23 09:36	11/02/23 14:23	1
Ethylbenzene	<0.000307	U	0.00101	0.000307	mg/Kg		11/02/23 09:36	11/02/23 14:23	1
m,p-Xylenes	<0.000437	U	0.00202	0.000437	mg/Kg		11/02/23 09:36	11/02/23 14:23	1
o-Xylene	<0.000319	U	0.00101	0.000319	mg/Kg		11/02/23 09:36	11/02/23 14:23	1
Xylenes, Total	<0.000437	U	0.00202	0.000437	mg/Kg		11/02/23 09:36	11/02/23 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		56 - 150	11/02/23 09:36	11/02/23 14:23	1
4-Bromofluorobenzene (Surr)	110		68 - 152	11/02/23 09:36	11/02/23 14:23	1
Dibromofluoromethane (Surr)	99		53 - 142	11/02/23 09:36	11/02/23 14:23	1
Toluene-d8 (Surr)	107		70 - 130	11/02/23 09:36	11/02/23 14:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000437	U	0.00202	0.000437	mg/Kg			11/02/23 14:23	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<21.1	U	50.1	21.1	mg/Kg			11/03/23 16:11	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<21.1	U	50.1	21.1	mg/Kg		11/02/23 13:17	11/03/23 16:11	1
Diesel Range Organics (Over C10-C28)	<21.1	U	50.1	21.1	mg/Kg		11/02/23 13:17	11/03/23 16:11	1

Eurofins Midland

Client Sample Results

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

Client Sample ID: S3

Lab Sample ID: 880-35079-7

Date Collected: 10/27/23 11:15

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 0'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<21.1	U	50.1	21.1	mg/Kg		11/02/23 13:17	11/03/23 16:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		65 - 130				11/02/23 13:17	11/03/23 16:11	1
o-Terphenyl	117		65 - 130				11/02/23 13:17	11/03/23 16:11	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3160		10.0	5.02	mg/Kg		11/02/23 11:31	11/02/23 15:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	94.3				%			11/03/23 14:22	1

Client Sample ID: S3

Lab Sample ID: 880-35079-8

Date Collected: 10/27/23 11:20

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 1'

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000380	U	0.000994	0.000380	mg/Kg		11/02/23 09:36	11/02/23 14:44	1
Toluene	<0.00120	U	0.00497	0.00120	mg/Kg		11/02/23 09:36	11/02/23 14:44	1
Ethylbenzene	<0.000303	U	0.000994	0.000303	mg/Kg		11/02/23 09:36	11/02/23 14:44	1
m,p-Xylenes	<0.000430	U	0.00199	0.000430	mg/Kg		11/02/23 09:36	11/02/23 14:44	1
o-Xylene	<0.000314	U	0.000994	0.000314	mg/Kg		11/02/23 09:36	11/02/23 14:44	1
Xylenes, Total	<0.000430	U	0.00199	0.000430	mg/Kg		11/02/23 09:36	11/02/23 14:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		56 - 150				11/02/23 09:36	11/02/23 14:44	1
4-Bromofluorobenzene (Surr)	105		68 - 152				11/02/23 09:36	11/02/23 14:44	1
Dibromofluoromethane (Surr)	101		53 - 142				11/02/23 09:36	11/02/23 14:44	1
Toluene-d8 (Surr)	102		70 - 130				11/02/23 09:36	11/02/23 14:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000430	U	0.00199	0.000430	mg/Kg			11/02/23 14:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<21.0	U	49.9	21.0	mg/Kg			11/03/23 16:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<21.0	U	49.9	21.0	mg/Kg		11/02/23 13:17	11/03/23 16:32	1
Diesel Range Organics (Over C10-C28)	<21.0	U	49.9	21.0	mg/Kg		11/02/23 13:17	11/03/23 16:32	1
Oil Range Organics (Over C28-C36)	<21.0	U	49.9	21.0	mg/Kg		11/02/23 13:17	11/03/23 16:32	1

Eurofins Midland

Client Sample Results

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

Client Sample ID: S3

Lab Sample ID: 880-35079-8

Date Collected: 10/27/23 11:20

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 1'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		65 - 130	11/02/23 13:17	11/03/23 16:32	1
o-Terphenyl	124		65 - 130	11/02/23 13:17	11/03/23 16:32	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	400		9.96	4.98	mg/Kg		11/02/23 11:31	11/02/23 15:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	93.2				%			11/03/23 14:22	1

Client Sample ID: S4

Lab Sample ID: 880-35079-9

Date Collected: 10/27/23 11:25

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 0'

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00101	0.000385	mg/Kg		11/02/23 09:36	11/02/23 15:05	1
Toluene	<0.00122	U	0.00503	0.00122	mg/Kg		11/02/23 09:36	11/02/23 15:05	1
Ethylbenzene	<0.000306	U	0.00101	0.000306	mg/Kg		11/02/23 09:36	11/02/23 15:05	1
m,p-Xylenes	<0.000436	U	0.00201	0.000436	mg/Kg		11/02/23 09:36	11/02/23 15:05	1
o-Xylene	<0.000318	U	0.00101	0.000318	mg/Kg		11/02/23 09:36	11/02/23 15:05	1
Xylenes, Total	<0.000436	U	0.00201	0.000436	mg/Kg		11/02/23 09:36	11/02/23 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		56 - 150	11/02/23 09:36	11/02/23 15:05	1
4-Bromofluorobenzene (Surr)	109		68 - 152	11/02/23 09:36	11/02/23 15:05	1
Dibromofluoromethane (Surr)	101		53 - 142	11/02/23 09:36	11/02/23 15:05	1
Toluene-d8 (Surr)	106		70 - 130	11/02/23 09:36	11/02/23 15:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000436	U	0.00201	0.000436	mg/Kg			11/02/23 15:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<21.2	U	50.2	21.2	mg/Kg			11/03/23 16:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<21.2	U	50.2	21.2	mg/Kg		11/02/23 13:17	11/03/23 16:32	1
Diesel Range Organics (Over C10-C28)	<21.2	U	50.2	21.2	mg/Kg		11/02/23 13:17	11/03/23 16:32	1
Oil Range Organics (Over C28-C36)	<21.2	U	50.2	21.2	mg/Kg		11/02/23 13:17	11/03/23 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		65 - 130	11/02/23 13:17	11/03/23 16:32	1
o-Terphenyl	107		65 - 130	11/02/23 13:17	11/03/23 16:32	1

Eurofins Midland

Client Sample Results

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

Client Sample ID: S4

Lab Sample ID: 880-35079-9

Date Collected: 10/27/23 11:25

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 0'

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4670		9.96	4.98	mg/Kg		11/02/23 11:31	11/02/23 15:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	82.2				%			11/03/23 14:22	1

Client Sample ID: S4

Lab Sample ID: 880-35079-10

Date Collected: 10/27/23 11:30

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 1'

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00101	0.000385	mg/Kg		11/02/23 09:36	11/02/23 15:26	1
Toluene	<0.00122	U	0.00503	0.00122	mg/Kg		11/02/23 09:36	11/02/23 15:26	1
Ethylbenzene	<0.000306	U	0.00101	0.000306	mg/Kg		11/02/23 09:36	11/02/23 15:26	1
m,p-Xylenes	<0.000436	U	0.00201	0.000436	mg/Kg		11/02/23 09:36	11/02/23 15:26	1
o-Xylene	<0.000318	U	0.00101	0.000318	mg/Kg		11/02/23 09:36	11/02/23 15:26	1
Xylenes, Total	<0.000436	U	0.00201	0.000436	mg/Kg		11/02/23 09:36	11/02/23 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		56 - 150	11/02/23 09:36	11/02/23 15:26	1
4-Bromofluorobenzene (Surr)	100		68 - 152	11/02/23 09:36	11/02/23 15:26	1
Dibromofluoromethane (Surr)	98		53 - 142	11/02/23 09:36	11/02/23 15:26	1
Toluene-d8 (Surr)	102		70 - 130	11/02/23 09:36	11/02/23 15:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000436	U	0.00201	0.000436	mg/Kg			11/02/23 15:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<21.1	U	49.9	21.1	mg/Kg			11/03/23 16:52	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<21.1	U	49.9	21.1	mg/Kg		11/02/23 13:17	11/03/23 16:52	1
Diesel Range Organics (Over C10-C28)	<21.1	U	49.9	21.1	mg/Kg		11/02/23 13:17	11/03/23 16:52	1
Oil Range Organics (Over C28-C36)	<21.1	U	49.9	21.1	mg/Kg		11/02/23 13:17	11/03/23 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		65 - 130	11/02/23 13:17	11/03/23 16:52	1
o-Terphenyl	109		65 - 130	11/02/23 13:17	11/03/23 16:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6300		99.0	49.5	mg/Kg		11/02/23 11:31	11/02/23 16:11	10

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Client Sample Results

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

Client Sample ID: S4

Lab Sample ID: 880-35079-10

Date Collected: 10/27/23 11:30

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 1'

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	86.4				%			11/03/23 14:22	1

Client Sample ID: S5/WEST 2

Lab Sample ID: 880-35079-11

Date Collected: 10/27/23 11:35

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 1'

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00100	0.000383	mg/Kg		11/03/23 11:31	11/03/23 14:35	1
Toluene	<0.00121	U	0.00500	0.00121	mg/Kg		11/03/23 11:31	11/03/23 14:35	1
Ethylbenzene	<0.000304	U	0.00100	0.000304	mg/Kg		11/03/23 11:31	11/03/23 14:35	1
m,p-Xylenes	<0.000433	U	0.00200	0.000433	mg/Kg		11/03/23 11:31	11/03/23 14:35	1
o-Xylene	<0.000316	U	0.00100	0.000316	mg/Kg		11/03/23 11:31	11/03/23 14:35	1
Xylenes, Total	<0.000433	U	0.00200	0.000433	mg/Kg		11/03/23 11:31	11/03/23 14:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		56 - 150				11/03/23 11:31	11/03/23 14:35	1
4-Bromofluorobenzene (Surr)	106		68 - 152				11/03/23 11:31	11/03/23 14:35	1
Dibromofluoromethane (Surr)	99		53 - 142				11/03/23 11:31	11/03/23 14:35	1
Toluene-d8 (Surr)	109		70 - 130				11/03/23 11:31	11/03/23 14:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000433	U	0.00200	0.000433	mg/Kg			11/03/23 14:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<21.1	U	49.9	21.1	mg/Kg			11/03/23 17:13	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<21.1	U	49.9	21.1	mg/Kg		11/02/23 13:17	11/03/23 17:13	1
Diesel Range Organics (Over C10-C28)	<21.1	U	49.9	21.1	mg/Kg		11/02/23 13:17	11/03/23 17:13	1
Oil Range Organics (Over C28-C36)	<21.1	U	49.9	21.1	mg/Kg		11/02/23 13:17	11/03/23 17:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		65 - 130				11/02/23 13:17	11/03/23 17:13	1
o-Terphenyl	110		65 - 130				11/02/23 13:17	11/03/23 17:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6420		99.2	49.6	mg/Kg		11/02/23 11:31	11/02/23 16:50	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	88.1				%			11/03/23 14:22	1

Client Sample Results

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

Client Sample ID: S6

Lab Sample ID: 880-35079-12

Date Collected: 10/27/23 11:40

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 0'

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00100	0.000384	mg/Kg		11/02/23 09:36	11/02/23 15:47	1
Toluene	<0.00122	U	0.00502	0.00122	mg/Kg		11/02/23 09:36	11/02/23 15:47	1
Ethylbenzene	<0.000306	U	0.00100	0.000306	mg/Kg		11/02/23 09:36	11/02/23 15:47	1
m,p-Xylenes	<0.000435	U	0.00201	0.000435	mg/Kg		11/02/23 09:36	11/02/23 15:47	1
o-Xylene	<0.000317	U	0.00100	0.000317	mg/Kg		11/02/23 09:36	11/02/23 15:47	1
Xylenes, Total	<0.000435	U	0.00201	0.000435	mg/Kg		11/02/23 09:36	11/02/23 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		56 - 150	11/02/23 09:36	11/02/23 15:47	1
4-Bromofluorobenzene (Surr)	103		68 - 152	11/02/23 09:36	11/02/23 15:47	1
Dibromofluoromethane (Surr)	105		53 - 142	11/02/23 09:36	11/02/23 15:47	1
Toluene-d8 (Surr)	102		70 - 130	11/02/23 09:36	11/02/23 15:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000435	U	0.00201	0.000435	mg/Kg			11/02/23 15:47	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<21.1	U	50.1	21.1	mg/Kg			11/03/23 17:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<21.1	U	50.1	21.1	mg/Kg		11/02/23 13:17	11/03/23 17:33	1
Diesel Range Organics (Over C10-C28)	<21.1	U	50.1	21.1	mg/Kg		11/02/23 13:17	11/03/23 17:33	1
Oil Range Organics (Over C28-C36)	<21.1	U	50.1	21.1	mg/Kg		11/02/23 13:17	11/03/23 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		65 - 130	11/02/23 13:17	11/03/23 17:33	1
o-Terphenyl	108		65 - 130	11/02/23 13:17	11/03/23 17:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8180		99.4	49.7	mg/Kg		11/02/23 11:31	11/02/23 17:29	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	87.2				%			11/03/23 14:22	1

Client Sample ID: S6

Lab Sample ID: 880-35079-13

Date Collected: 10/27/23 11:45

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 1'

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00100	0.000383	mg/Kg		11/02/23 09:36	11/02/23 16:07	1
Toluene	<0.00121	U	0.00501	0.00121	mg/Kg		11/02/23 09:36	11/02/23 16:07	1
Ethylbenzene	<0.000305	U	0.00100	0.000305	mg/Kg		11/02/23 09:36	11/02/23 16:07	1

Eurofins Midland

Client Sample Results

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

Client Sample ID: S6

Lab Sample ID: 880-35079-13

Date Collected: 10/27/23 11:45

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 1'

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	<0.000434	U	0.00200	0.000434	mg/Kg		11/02/23 09:36	11/02/23 16:07	1
o-Xylene	<0.000317	U	0.00100	0.000317	mg/Kg		11/02/23 09:36	11/02/23 16:07	1
Xylenes, Total	<0.000434	U	0.00200	0.000434	mg/Kg		11/02/23 09:36	11/02/23 16:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		56 - 150				11/02/23 09:36	11/02/23 16:07	1
4-Bromofluorobenzene (Surr)	108		68 - 152				11/02/23 09:36	11/02/23 16:07	1
Dibromofluoromethane (Surr)	106		53 - 142				11/02/23 09:36	11/02/23 16:07	1
Toluene-d8 (Surr)	102		70 - 130				11/02/23 09:36	11/02/23 16:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000434	U	0.00200	0.000434	mg/Kg			11/02/23 16:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<21.2	U	50.3	21.2	mg/Kg			11/03/23 17:54	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<21.2	U	50.3	21.2	mg/Kg		11/02/23 13:17	11/03/23 17:54	1
Diesel Range Organics (Over C10-C28)	<21.2	U	50.3	21.2	mg/Kg		11/02/23 13:17	11/03/23 17:54	1
Oil Range Organics (Over C28-C36)	<21.2	U	50.3	21.2	mg/Kg		11/02/23 13:17	11/03/23 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		65 - 130				11/02/23 13:17	11/03/23 17:54	1
o-Terphenyl	105		65 - 130				11/02/23 13:17	11/03/23 17:54	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4350		9.96	4.98	mg/Kg		11/02/23 11:31	11/02/23 17:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	86.1				%			11/03/23 14:22	1

Client Sample ID: S7

Lab Sample ID: 880-35079-14

Date Collected: 10/27/23 11:50

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 0'

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00100	0.000383	mg/Kg		11/02/23 09:36	11/02/23 16:28	1
Toluene	<0.00121	U	0.00501	0.00121	mg/Kg		11/02/23 09:36	11/02/23 16:28	1
Ethylbenzene	<0.000305	U	0.00100	0.000305	mg/Kg		11/02/23 09:36	11/02/23 16:28	1
m,p-Xylenes	<0.000434	U	0.00200	0.000434	mg/Kg		11/02/23 09:36	11/02/23 16:28	1
o-Xylene	<0.000317	U	0.00100	0.000317	mg/Kg		11/02/23 09:36	11/02/23 16:28	1
Xylenes, Total	<0.000434	U	0.00200	0.000434	mg/Kg		11/02/23 09:36	11/02/23 16:28	1

Eurofins Midland

Client Sample Results

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

Client Sample ID: S7

Lab Sample ID: 880-35079-14

Date Collected: 10/27/23 11:50

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 0'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		56 - 150	11/02/23 09:36	11/02/23 16:28	1
4-Bromofluorobenzene (Surr)	101		68 - 152	11/02/23 09:36	11/02/23 16:28	1
Dibromofluoromethane (Surr)	112		53 - 142	11/02/23 09:36	11/02/23 16:28	1
Toluene-d8 (Surr)	103		70 - 130	11/02/23 09:36	11/02/23 16:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000434	U	0.00200	0.000434	mg/Kg			11/02/23 16:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<21.0	U	49.9	21.0	mg/Kg			11/03/23 16:52	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<21.0	U	49.9	21.0	mg/Kg		11/02/23 13:17	11/03/23 16:52	1
Diesel Range Organics (Over C10-C28)	<21.0	U	49.9	21.0	mg/Kg		11/02/23 13:17	11/03/23 16:52	1
Oil Range Organics (Over C28-C36)	<21.0	U	49.9	21.0	mg/Kg		11/02/23 13:17	11/03/23 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		65 - 130	11/02/23 13:17	11/03/23 16:52	1
o-Terphenyl	125		65 - 130	11/02/23 13:17	11/03/23 16:52	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3620		9.94	4.97	mg/Kg		11/02/23 11:31	11/02/23 18:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	88.5				%			11/03/23 14:22	1

Client Sample ID: S7

Lab Sample ID: 880-35079-15

Date Collected: 10/27/23 11:55

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 1'

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00100	0.000384	mg/Kg		11/02/23 09:36	11/02/23 16:49	1
Toluene	<0.00122	U	0.00502	0.00122	mg/Kg		11/02/23 09:36	11/02/23 16:49	1
Ethylbenzene	<0.000306	U	0.00100	0.000306	mg/Kg		11/02/23 09:36	11/02/23 16:49	1
m,p-Xylenes	<0.000435	U	0.00201	0.000435	mg/Kg		11/02/23 09:36	11/02/23 16:49	1
o-Xylene	<0.000317	U	0.00100	0.000317	mg/Kg		11/02/23 09:36	11/02/23 16:49	1
Xylenes, Total	<0.000435	U	0.00201	0.000435	mg/Kg		11/02/23 09:36	11/02/23 16:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		56 - 150	11/02/23 09:36	11/02/23 16:49	1
4-Bromofluorobenzene (Surr)	104		68 - 152	11/02/23 09:36	11/02/23 16:49	1
Dibromofluoromethane (Surr)	103		53 - 142	11/02/23 09:36	11/02/23 16:49	1
Toluene-d8 (Surr)	104		70 - 130	11/02/23 09:36	11/02/23 16:49	1

Eurofins Midland

Client Sample Results

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

Client Sample ID: S7

Lab Sample ID: 880-35079-15

Date Collected: 10/27/23 11:55

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 1'

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000435	U	0.00201	0.000435	mg/Kg	-		11/02/23 16:49	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<21.0	U	49.9	21.0	mg/Kg	-		11/03/23 17:13	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<21.0	U	49.9	21.0	mg/Kg	-	11/02/23 13:17	11/03/23 17:13	1
Diesel Range Organics (Over C10-C28)	<21.0	U	49.9	21.0	mg/Kg	-	11/02/23 13:17	11/03/23 17:13	1
Oil Range Organics (Over C28-C36)	<21.0	U	49.9	21.0	mg/Kg	-	11/02/23 13:17	11/03/23 17:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		65 - 130				11/02/23 13:17	11/03/23 17:13	1
o-Terphenyl	130		65 - 130				11/02/23 13:17	11/03/23 17:13	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1420		9.98	4.99	mg/Kg	-	11/02/23 11:31	11/02/23 18:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	91.1				%	-		11/03/23 14:22	1

Client Sample ID: S8/EAST1

Lab Sample ID: 880-35079-16

Date Collected: 10/27/23 12:00

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 1'

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00101	0.000386	mg/Kg	-	11/02/23 09:36	11/02/23 17:10	1
Toluene	<0.00122	U	0.00505	0.00122	mg/Kg	-	11/02/23 09:36	11/02/23 17:10	1
Ethylbenzene	<0.000307	U	0.00101	0.000307	mg/Kg	-	11/02/23 09:36	11/02/23 17:10	1
m,p-Xylenes	<0.000437	U	0.00202	0.000437	mg/Kg	-	11/02/23 09:36	11/02/23 17:10	1
o-Xylene	<0.000319	U	0.00101	0.000319	mg/Kg	-	11/02/23 09:36	11/02/23 17:10	1
Xylenes, Total	<0.000437	U	0.00202	0.000437	mg/Kg	-	11/02/23 09:36	11/02/23 17:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		56 - 150				11/02/23 09:36	11/02/23 17:10	1
4-Bromofluorobenzene (Surr)	102		68 - 152				11/02/23 09:36	11/02/23 17:10	1
Dibromofluoromethane (Surr)	104		53 - 142				11/02/23 09:36	11/02/23 17:10	1
Toluene-d8 (Surr)	105		70 - 130				11/02/23 09:36	11/02/23 17:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000437	U	0.00202	0.000437	mg/Kg	-		11/02/23 17:10	1

Eurofins Midland

Client Sample Results

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

Client Sample ID: S8/EAST1

Lab Sample ID: 880-35079-16

Date Collected: 10/27/23 12:00

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 1'

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<21.0	U	49.8	21.0	mg/Kg			11/03/23 17:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<21.0	U	49.8	21.0	mg/Kg		11/02/23 13:17	11/03/23 17:33	1
Diesel Range Organics (Over C10-C28)	<21.0	U	49.8	21.0	mg/Kg		11/02/23 13:17	11/03/23 17:33	1
Oil Range Organics (Over C28-C36)	<21.0	U	49.8	21.0	mg/Kg		11/02/23 13:17	11/03/23 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		65 - 130	11/02/23 13:17	11/03/23 17:33	1
o-Terphenyl	121		65 - 130	11/02/23 13:17	11/03/23 17:33	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	463		10.0	5.01	mg/Kg		11/02/23 11:31	11/02/23 18:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	90.0				%			11/03/23 14:22	1

Client Sample ID: S9/EAST2

Lab Sample ID: 880-35079-17

Date Collected: 10/27/23 12:05

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 1'

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.000996	0.000381	mg/Kg		11/02/23 09:36	11/02/23 17:31	1
Toluene	<0.00121	U	0.00498	0.00121	mg/Kg		11/02/23 09:36	11/02/23 17:31	1
Ethylbenzene	<0.000303	U	0.000996	0.000303	mg/Kg		11/02/23 09:36	11/02/23 17:31	1
m,p-Xylenes	<0.000431	U	0.00199	0.000431	mg/Kg		11/02/23 09:36	11/02/23 17:31	1
o-Xylene	<0.000315	U	0.000996	0.000315	mg/Kg		11/02/23 09:36	11/02/23 17:31	1
Xylenes, Total	<0.000431	U	0.00199	0.000431	mg/Kg		11/02/23 09:36	11/02/23 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		56 - 150	11/02/23 09:36	11/02/23 17:31	1
4-Bromofluorobenzene (Surr)	102		68 - 152	11/02/23 09:36	11/02/23 17:31	1
Dibromofluoromethane (Surr)	102		53 - 142	11/02/23 09:36	11/02/23 17:31	1
Toluene-d8 (Surr)	101		70 - 130	11/02/23 09:36	11/02/23 17:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000431	U	0.00199	0.000431	mg/Kg			11/02/23 17:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<21.1	U	49.9	21.1	mg/Kg			11/03/23 18:15	1

Eurofins Midland

Client Sample Results

Client: Select Energy Services
 Project/Site: Red Deer

Job ID: 880-35079-1
 SDG: Chaves Co

Client Sample ID: S9/EAST2

Lab Sample ID: 880-35079-17

Date Collected: 10/27/23 12:05

Matrix: Solid

Date Received: 10/31/23 11:30

Sample Depth: 1'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<21.1	U	49.9	21.1	mg/Kg		11/02/23 13:17	11/03/23 18:15	1
Diesel Range Organics (Over C10-C28)	<21.1	U	49.9	21.1	mg/Kg		11/02/23 13:17	11/03/23 18:15	1
Oll Range Organics (Over C28-C36)	<21.1	U	49.9	21.1	mg/Kg		11/02/23 13:17	11/03/23 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		65 - 130	11/02/23 13:17	11/03/23 18:15	1
o-Terphenyl	109		65 - 130	11/02/23 13:17	11/03/23 18:15	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	401		10.1	5.03	mg/Kg		11/02/23 11:31	11/02/23 19:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	90.4				%			11/03/23 14:22	1

Surrogate Summary

Client: Select Energy Services
Project/Site: Red DeerJob ID: 880-35079-1
SDG: Chaves Co

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (56-150)	BFB (68-152)	DBFM (53-142)	TOL (70-130)
880-35079-1	HN	114	104	102	96
880-35079-2	HW	112	103	100	98
880-35079-3	HE	116	103	104	96
880-35079-4	S1/WEST 1	115	105	102	95
880-35079-5	S2	118	102	105	94
880-35079-6	S2	97	109	97	105
880-35079-7	S3	100	110	99	107
880-35079-8	S3	100	105	101	102
880-35079-9	S4	104	109	101	106
880-35079-10	S4	106	100	98	102
880-35079-11	S5/WEST 2	104	106	99	109
880-35079-12	S6	100	103	105	102
880-35079-13	S6	96	108	106	102
880-35079-14	S7	112	101	112	103
880-35079-15	S7	101	104	103	104
880-35079-16	S8/EAST1	103	102	104	105
880-35079-17	S9/EAST2	99	102	102	101
LCS 860-129108/3	Lab Control Sample	95	99	95	103
LCS 860-129306/3	Lab Control Sample	113	103	104	97
LCS 860-129308/3	Lab Control Sample	96	101	109	102
LCSD 860-129108/4	Lab Control Sample Dup	98	99	98	102
LCSD 860-129306/4	Lab Control Sample Dup	113	102	100	97
LCSD 860-129308/4	Lab Control Sample Dup	92	102	102	102
MB 860-129108/9	Method Blank	106	101	99	104
MB 860-129306/8	Method Blank	114	99	107	97
MB 860-129308/9	Method Blank	112	96	112	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (65-130)	OTPH1 (65-130)
880-35079-1	HN	83	94
880-35079-2	HW	100	119
880-35079-3	HE	110	135 S1+
880-35079-4	S1/WEST 1	106	129
880-35079-5	S2	103	119
880-35079-6	S2	103	109
880-35079-7	S3	105	117
880-35079-8	S3	109	124
880-35079-9	S4	103	107
880-35079-10	S4	104	109
880-35079-11	S5/WEST 2	105	110

Eurofins Midland

Surrogate Summary

Client: Select Energy Services
 Project/Site: Red Deer

Job ID: 880-35079-1
 SDG: Chaves Co

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (65-130)	OTPH1 (65-130)
880-35079-12	S6	104	108
880-35079-13	S6	101	105
880-35079-14	S7	106	125
880-35079-15	S7	106	130
880-35079-16	S8/EAST1	105	121
880-35079-17	S9/EAST2	106	109
LCS 860-129207/2-A	Lab Control Sample	100	119
LCSD 860-129207/3-A	Lab Control Sample Dup	101	122
MB 860-129207/1-A	Method Blank	95	101

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Sample Results

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-129108/9
Matrix: Solid
Analysis Batch: 129108

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00100	0.000383	mg/Kg			11/02/23 12:59	1
Toluene	<0.00121	U	0.00500	0.00121	mg/Kg			11/02/23 12:59	1
Ethylbenzene	<0.000304	U	0.00100	0.000304	mg/Kg			11/02/23 12:59	1
m,p-Xylenes	<0.000433	U	0.00200	0.000433	mg/Kg			11/02/23 12:59	1
o-Xylene	<0.000316	U	0.00100	0.000316	mg/Kg			11/02/23 12:59	1
Xylenes, Total	<0.000433	U	0.00200	0.000433	mg/Kg			11/02/23 12:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		56 - 150		11/02/23 12:59	1
4-Bromofluorobenzene (Surr)	101		68 - 152		11/02/23 12:59	1
Dibromofluoromethane (Surr)	99		53 - 142		11/02/23 12:59	1
Toluene-d8 (Surr)	104		70 - 130		11/02/23 12:59	1

Lab Sample ID: LCS 860-129108/3
Matrix: Solid
Analysis Batch: 129108

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04820		mg/Kg		96	66 - 142
Toluene	0.0500	0.04666		mg/Kg		93	74 - 130
Ethylbenzene	0.0500	0.05002		mg/Kg		100	80 - 130
m,p-Xylenes	0.0500	0.04985		mg/Kg		100	78 - 130
o-Xylene	0.0500	0.04949		mg/Kg		99	79 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		56 - 150
4-Bromofluorobenzene (Surr)	99		68 - 152
Dibromofluoromethane (Surr)	95		53 - 142
Toluene-d8 (Surr)	103		70 - 130

Lab Sample ID: LCSD 860-129108/4
Matrix: Solid
Analysis Batch: 129108

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.05030		mg/Kg		101	66 - 142	4	25
Toluene	0.0500	0.04806		mg/Kg		96	74 - 130	3	25
Ethylbenzene	0.0500	0.05044		mg/Kg		101	80 - 130	1	25
m,p-Xylenes	0.0500	0.04949		mg/Kg		99	78 - 130	1	25
o-Xylene	0.0500	0.05204		mg/Kg		104	79 - 130	5	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		56 - 150
4-Bromofluorobenzene (Surr)	99		68 - 152
Dibromofluoromethane (Surr)	98		53 - 142
Toluene-d8 (Surr)	102		70 - 130

QC Sample Results

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-129306/8
Matrix: Solid
Analysis Batch: 129306

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00100	0.000383	mg/Kg			11/03/23 11:19	1
Toluene	<0.00121	U	0.00500	0.00121	mg/Kg			11/03/23 11:19	1
Ethylbenzene	<0.000304	U	0.00100	0.000304	mg/Kg			11/03/23 11:19	1
m,p-Xylenes	<0.000433	U	0.00200	0.000433	mg/Kg			11/03/23 11:19	1
o-Xylene	<0.000316	U	0.00100	0.000316	mg/Kg			11/03/23 11:19	1
Xylenes, Total	<0.000433	U	0.00200	0.000433	mg/Kg			11/03/23 11:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		56 - 150		11/03/23 11:19	1
4-Bromofluorobenzene (Surr)	99		68 - 152		11/03/23 11:19	1
Dibromofluoromethane (Surr)	107		53 - 142		11/03/23 11:19	1
Toluene-d8 (Surr)	97		70 - 130		11/03/23 11:19	1

Lab Sample ID: LCS 860-129306/3
Matrix: Solid
Analysis Batch: 129306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.05211		mg/Kg		104	66 - 142
Toluene	0.0500	0.05140		mg/Kg		103	74 - 130
Ethylbenzene	0.0500	0.05586		mg/Kg		112	80 - 130
m,p-Xylenes	0.0500	0.05450		mg/Kg		109	78 - 130
o-Xylene	0.0500	0.05679		mg/Kg		114	79 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	113		56 - 150
4-Bromofluorobenzene (Surr)	103		68 - 152
Dibromofluoromethane (Surr)	104		53 - 142
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: LCSD 860-129306/4
Matrix: Solid
Analysis Batch: 129306

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.04459		mg/Kg		89	66 - 142	16	25
Toluene	0.0500	0.04279		mg/Kg		86	74 - 130	18	25
Ethylbenzene	0.0500	0.04633		mg/Kg		93	80 - 130	19	25
m,p-Xylenes	0.0500	0.04624		mg/Kg		92	78 - 130	16	25
o-Xylene	0.0500	0.04803		mg/Kg		96	79 - 130	17	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	113		56 - 150
4-Bromofluorobenzene (Surr)	102		68 - 152
Dibromofluoromethane (Surr)	100		53 - 142
Toluene-d8 (Surr)	97		70 - 130

QC Sample Results

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-129308/9
Matrix: Solid
Analysis Batch: 129308

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00100	0.000383	mg/Kg			11/03/23 10:45	1
Toluene	<0.00121	U	0.00500	0.00121	mg/Kg			11/03/23 10:45	1
Ethylbenzene	<0.000304	U	0.00100	0.000304	mg/Kg			11/03/23 10:45	1
m,p-Xylenes	<0.000433	U	0.00200	0.000433	mg/Kg			11/03/23 10:45	1
o-Xylene	<0.000316	U	0.00100	0.000316	mg/Kg			11/03/23 10:45	1
Xylenes, Total	<0.000433	U	0.00200	0.000433	mg/Kg			11/03/23 10:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		56 - 150		11/03/23 10:45	1
4-Bromofluorobenzene (Surr)	96		68 - 152		11/03/23 10:45	1
Dibromofluoromethane (Surr)	112		53 - 142		11/03/23 10:45	1
Toluene-d8 (Surr)	99		70 - 130		11/03/23 10:45	1

Lab Sample ID: LCS 860-129308/3
Matrix: Solid
Analysis Batch: 129308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.05369		mg/Kg		107	66 - 142
Toluene	0.0500	0.05078		mg/Kg		102	74 - 130
Ethylbenzene	0.0500	0.05354		mg/Kg		107	80 - 130
m,p-Xylenes	0.0500	0.05212		mg/Kg		104	78 - 130
o-Xylene	0.0500	0.05164		mg/Kg		103	79 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		56 - 150
4-Bromofluorobenzene (Surr)	101		68 - 152
Dibromofluoromethane (Surr)	109		53 - 142
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: LCSD 860-129308/4
Matrix: Solid
Analysis Batch: 129308

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.05047		mg/Kg		101	66 - 142	6	25
Toluene	0.0500	0.04870		mg/Kg		97	74 - 130	4	25
Ethylbenzene	0.0500	0.05091		mg/Kg		102	80 - 130	5	25
m,p-Xylenes	0.0500	0.05002		mg/Kg		100	78 - 130	4	25
o-Xylene	0.0500	0.05031		mg/Kg		101	79 - 130	3	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		56 - 150
4-Bromofluorobenzene (Surr)	102		68 - 152
Dibromofluoromethane (Surr)	102		53 - 142
Toluene-d8 (Surr)	102		70 - 130

QC Sample Results

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 860-129207/1-A
Matrix: Solid
Analysis Batch: 129332

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 129207

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<21.1	U	50.0	21.1	mg/Kg		11/02/23 13:17	11/03/23 12:04	1
Diesel Range Organics (Over C10-C28)	<21.1	U	50.0	21.1	mg/Kg		11/02/23 13:17	11/03/23 12:04	1
Oll Range Organics (Over C28-C36)	<21.1	U	50.0	21.1	mg/Kg		11/02/23 13:17	11/03/23 12:04	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	95		65 - 130	11/02/23 13:17	11/03/23 12:04	1
o-Terphenyl	101		65 - 130	11/02/23 13:17	11/03/23 12:04	1

Lab Sample ID: LCS 860-129207/2-A
Matrix: Solid
Analysis Batch: 129332

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 129207

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	999	1101		mg/Kg		110	70 - 135

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	100		65 - 130
o-Terphenyl	119		65 - 130

Lab Sample ID: LCSD 860-129207/3-A
Matrix: Solid
Analysis Batch: 129332

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 129207

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	999	911.1		mg/Kg		91	70 - 135	3	35
Diesel Range Organics (Over C10-C28)	999	1140		mg/Kg		114	70 - 135	3	35

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1-Chlorooctane	101		65 - 130
o-Terphenyl	122		65 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-129184/1-A
Matrix: Solid
Analysis Batch: 129182

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 129184

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<5.00	U	10.0	5.00	mg/Kg		11/02/23 11:31	11/02/23 12:47	1

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QC Sample Results

Client: Select Energy Services
 Project/Site: Red Deer

Job ID: 880-35079-1
 SDG: Chaves Co

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-129184/2-A
 Matrix: Solid
 Analysis Batch: 129182

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 129184

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	97.23		mg/Kg		97	80 - 120

Lab Sample ID: LCSD 860-129184/3-A
 Matrix: Solid
 Analysis Batch: 129182

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 129184

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	96.55		mg/Kg		97	80 - 120	1	20

Method: SM 2540G - Total, Fixed, and Volatile Solids

Lab Sample ID: MB 860-129437/1
 Matrix: Solid
 Analysis Batch: 129437

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids	99.96				%			11/03/23 14:22	1

Lab Sample ID: 880-35079-1 DU
 Matrix: Solid
 Analysis Batch: 129437

Client Sample ID: HN
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Solids	93.6		93.45		%		0.2	10

QC Association Summary

Client: Select Energy Services
Project/Site: Red DeerJob ID: 880-35079-1
SDG: Chaves Co

GC/MS VOA

Prep Batch: 129020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35079-1	HN	Total/NA	Solid	5035	
880-35079-2	HW	Total/NA	Solid	5035	
880-35079-3	HE	Total/NA	Solid	5035	
880-35079-4	S1/WEST 1	Total/NA	Solid	5035	
880-35079-5	S2	Total/NA	Solid	5035	

Analysis Batch: 129108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35079-6	S2	Total/NA	Solid	8260D	129158
880-35079-7	S3	Total/NA	Solid	8260D	129158
880-35079-8	S3	Total/NA	Solid	8260D	129158
880-35079-9	S4	Total/NA	Solid	8260D	129158
880-35079-10	S4	Total/NA	Solid	8260D	129158
880-35079-12	S6	Total/NA	Solid	8260D	129158
880-35079-13	S6	Total/NA	Solid	8260D	129158
880-35079-14	S7	Total/NA	Solid	8260D	129158
880-35079-15	S7	Total/NA	Solid	8260D	129158
880-35079-16	S8/EAST1	Total/NA	Solid	8260D	129158
880-35079-17	S9/EAST2	Total/NA	Solid	8260D	129158
MB 860-129108/9	Method Blank	Total/NA	Solid	8260D	
LCS 860-129108/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 860-129108/4	Lab Control Sample Dup	Total/NA	Solid	8260D	

Prep Batch: 129158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35079-6	S2	Total/NA	Solid	5035	
880-35079-7	S3	Total/NA	Solid	5035	
880-35079-8	S3	Total/NA	Solid	5035	
880-35079-9	S4	Total/NA	Solid	5035	
880-35079-10	S4	Total/NA	Solid	5035	
880-35079-12	S6	Total/NA	Solid	5035	
880-35079-13	S6	Total/NA	Solid	5035	
880-35079-14	S7	Total/NA	Solid	5035	
880-35079-15	S7	Total/NA	Solid	5035	
880-35079-16	S8/EAST1	Total/NA	Solid	5035	
880-35079-17	S9/EAST2	Total/NA	Solid	5035	

Analysis Batch: 129306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35079-1	HN	Total/NA	Solid	8260D	129020
880-35079-2	HW	Total/NA	Solid	8260D	129020
880-35079-3	HE	Total/NA	Solid	8260D	129020
880-35079-4	S1/WEST 1	Total/NA	Solid	8260D	129020
880-35079-5	S2	Total/NA	Solid	8260D	129020
MB 860-129306/8	Method Blank	Total/NA	Solid	8260D	
LCS 860-129306/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 860-129306/4	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 129308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35079-11	S5/WEST 2	Total/NA	Solid	8260D	129365

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QC Association Summary

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

GC/MS VOA (Continued)

Analysis Batch: 129308 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-129308/9	Method Blank	Total/NA	Solid	8260D	
LCS 860-129308/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 860-129308/4	Lab Control Sample Dup	Total/NA	Solid	8260D	

Prep Batch: 129365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35079-11	S5/WEST 2	Total/NA	Solid	5035	

Analysis Batch: 129704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35079-1	HN	Total/NA	Solid	Total BTEX	
880-35079-2	HW	Total/NA	Solid	Total BTEX	
880-35079-3	HE	Total/NA	Solid	Total BTEX	
880-35079-4	S1/WEST 1	Total/NA	Solid	Total BTEX	
880-35079-5	S2	Total/NA	Solid	Total BTEX	
880-35079-6	S2	Total/NA	Solid	Total BTEX	
880-35079-7	S3	Total/NA	Solid	Total BTEX	
880-35079-8	S3	Total/NA	Solid	Total BTEX	
880-35079-9	S4	Total/NA	Solid	Total BTEX	
880-35079-10	S4	Total/NA	Solid	Total BTEX	
880-35079-11	S5/WEST 2	Total/NA	Solid	Total BTEX	
880-35079-12	S6	Total/NA	Solid	Total BTEX	
880-35079-13	S6	Total/NA	Solid	Total BTEX	
880-35079-14	S7	Total/NA	Solid	Total BTEX	
880-35079-15	S7	Total/NA	Solid	Total BTEX	
880-35079-16	S8/EAST1	Total/NA	Solid	Total BTEX	
880-35079-17	S9/EAST2	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 101425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35079-1	HN	Total/NA	Solid	8015 NM	
880-35079-2	HW	Total/NA	Solid	8015 NM	
880-35079-3	HE	Total/NA	Solid	8015 NM	
880-35079-4	S1/WEST 1	Total/NA	Solid	8015 NM	
880-35079-5	S2	Total/NA	Solid	8015 NM	
880-35079-6	S2	Total/NA	Solid	8015 NM	
880-35079-7	S3	Total/NA	Solid	8015 NM	
880-35079-8	S3	Total/NA	Solid	8015 NM	
880-35079-9	S4	Total/NA	Solid	8015 NM	
880-35079-10	S4	Total/NA	Solid	8015 NM	
880-35079-11	S5/WEST 2	Total/NA	Solid	8015 NM	
880-35079-12	S6	Total/NA	Solid	8015 NM	
880-35079-13	S6	Total/NA	Solid	8015 NM	
880-35079-14	S7	Total/NA	Solid	8015 NM	
880-35079-15	S7	Total/NA	Solid	8015 NM	
880-35079-16	S8/EAST1	Total/NA	Solid	8015 NM	
880-35079-17	S9/EAST2	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Select Energy Services
 Project/Site: Red Deer

Job ID: 880-35079-1
 SDG: Chaves Co

GC Semi VOA

Prep Batch: 129207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35079-1	HN	Total/NA	Solid	8015NM Prep	
880-35079-2	HW	Total/NA	Solid	8015NM Prep	
880-35079-3	HE	Total/NA	Solid	8015NM Prep	
880-35079-4	S1/WEST 1	Total/NA	Solid	8015NM Prep	
880-35079-5	S2	Total/NA	Solid	8015NM Prep	
880-35079-6	S2	Total/NA	Solid	8015NM Prep	
880-35079-7	S3	Total/NA	Solid	8015NM Prep	
880-35079-8	S3	Total/NA	Solid	8015NM Prep	
880-35079-9	S4	Total/NA	Solid	8015NM Prep	
880-35079-10	S4	Total/NA	Solid	8015NM Prep	
880-35079-11	S5/WEST 2	Total/NA	Solid	8015NM Prep	
880-35079-12	S6	Total/NA	Solid	8015NM Prep	
880-35079-13	S6	Total/NA	Solid	8015NM Prep	
880-35079-14	S7	Total/NA	Solid	8015NM Prep	
880-35079-15	S7	Total/NA	Solid	8015NM Prep	
880-35079-16	S8/EAST1	Total/NA	Solid	8015NM Prep	
880-35079-17	S9/EAST2	Total/NA	Solid	8015NM Prep	
MB 860-129207/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-129207/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-129207/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 129329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35079-6	S2	Total/NA	Solid	8015B NM	129207
880-35079-9	S4	Total/NA	Solid	8015B NM	129207
880-35079-10	S4	Total/NA	Solid	8015B NM	129207
880-35079-11	S5/WEST 2	Total/NA	Solid	8015B NM	129207
880-35079-12	S6	Total/NA	Solid	8015B NM	129207
880-35079-13	S6	Total/NA	Solid	8015B NM	129207
880-35079-17	S9/EAST2	Total/NA	Solid	8015B NM	129207

Analysis Batch: 129332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35079-1	HN	Total/NA	Solid	8015B NM	129207
880-35079-2	HW	Total/NA	Solid	8015B NM	129207
880-35079-3	HE	Total/NA	Solid	8015B NM	129207
880-35079-4	S1/WEST 1	Total/NA	Solid	8015B NM	129207
880-35079-5	S2	Total/NA	Solid	8015B NM	129207
880-35079-7	S3	Total/NA	Solid	8015B NM	129207
880-35079-8	S3	Total/NA	Solid	8015B NM	129207
880-35079-14	S7	Total/NA	Solid	8015B NM	129207
880-35079-15	S7	Total/NA	Solid	8015B NM	129207
880-35079-16	S8/EAST1	Total/NA	Solid	8015B NM	129207
MB 860-129207/1-A	Method Blank	Total/NA	Solid	8015B NM	129207
LCS 860-129207/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	129207
LCSD 860-129207/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	129207

QC Association Summary

Client: Select Energy Services
 Project/Site: Red Deer

Job ID: 880-35079-1
 SDG: Chaves Co

HPLC/IC

Analysis Batch: 129182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35079-1	HN	Total/NA	Solid	300.0	129184
880-35079-2	HW	Total/NA	Solid	300.0	129184
880-35079-3	HE	Total/NA	Solid	300.0	129184
880-35079-4 - DL	S1/WEST 1	Total/NA	Solid	300.0	129184
880-35079-5 - DL	S2	Total/NA	Solid	300.0	129184
880-35079-6	S2	Total/NA	Solid	300.0	129184
880-35079-7	S3	Total/NA	Solid	300.0	129184
880-35079-8	S3	Total/NA	Solid	300.0	129184
880-35079-9	S4	Total/NA	Solid	300.0	129184
880-35079-10 - DL	S4	Total/NA	Solid	300.0	129184
880-35079-11 - DL	S5/WEST 2	Total/NA	Solid	300.0	129184
880-35079-12 - DL	S6	Total/NA	Solid	300.0	129184
880-35079-13	S6	Total/NA	Solid	300.0	129184
880-35079-14	S7	Total/NA	Solid	300.0	129184
880-35079-15	S7	Total/NA	Solid	300.0	129184
880-35079-16	S8/EAST1	Total/NA	Solid	300.0	129184
880-35079-17	S9/EAST2	Total/NA	Solid	300.0	129184
MB 860-129184/1-A	Method Blank	Total/NA	Solid	300.0	129184
LCS 860-129184/2-A	Lab Control Sample	Total/NA	Solid	300.0	129184
LCSD 860-129184/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	129184

Prep Batch: 129184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35079-1	HN	Total/NA	Solid	300_Prep	
880-35079-2	HW	Total/NA	Solid	300_Prep	
880-35079-3	HE	Total/NA	Solid	300_Prep	
880-35079-4 - DL	S1/WEST 1	Total/NA	Solid	300_Prep	
880-35079-5 - DL	S2	Total/NA	Solid	300_Prep	
880-35079-6	S2	Total/NA	Solid	300_Prep	
880-35079-7	S3	Total/NA	Solid	300_Prep	
880-35079-8	S3	Total/NA	Solid	300_Prep	
880-35079-9	S4	Total/NA	Solid	300_Prep	
880-35079-10 - DL	S4	Total/NA	Solid	300_Prep	
880-35079-11 - DL	S5/WEST 2	Total/NA	Solid	300_Prep	
880-35079-12 - DL	S6	Total/NA	Solid	300_Prep	
880-35079-13	S6	Total/NA	Solid	300_Prep	
880-35079-14	S7	Total/NA	Solid	300_Prep	
880-35079-15	S7	Total/NA	Solid	300_Prep	
880-35079-16	S8/EAST1	Total/NA	Solid	300_Prep	
880-35079-17	S9/EAST2	Total/NA	Solid	300_Prep	
MB 860-129184/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-129184/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-129184/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

General Chemistry

Analysis Batch: 129437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35079-1	HN	Total/NA	Solid	SM 2540G	
880-35079-2	HW	Total/NA	Solid	SM 2540G	
880-35079-3	HE	Total/NA	Solid	SM 2540G	

Eurofins Midland

QC Association Summary

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

General Chemistry (Continued)

Analysis Batch: 129437 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35079-4	S1/WEST 1	Total/NA	Solid	SM 2540G	
880-35079-5	S2	Total/NA	Solid	SM 2540G	
880-35079-6	S2	Total/NA	Solid	SM 2540G	
880-35079-7	S3	Total/NA	Solid	SM 2540G	
880-35079-8	S3	Total/NA	Solid	SM 2540G	
880-35079-9	S4	Total/NA	Solid	SM 2540G	
880-35079-10	S4	Total/NA	Solid	SM 2540G	
880-35079-11	S5/WEST 2	Total/NA	Solid	SM 2540G	
880-35079-12	S6	Total/NA	Solid	SM 2540G	
880-35079-13	S6	Total/NA	Solid	SM 2540G	
880-35079-14	S7	Total/NA	Solid	SM 2540G	
880-35079-15	S7	Total/NA	Solid	SM 2540G	
880-35079-16	S8/EAST1	Total/NA	Solid	SM 2540G	
880-35079-17	S9/EAST2	Total/NA	Solid	SM 2540G	
MB 860-129437/1	Method Blank	Total/NA	Solid	SM 2540G	
880-35079-1 DU	HN	Total/NA	Solid	SM 2540G	

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Lab Chronicle

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

Client Sample ID: HN

Lab Sample ID: 880-35079-1

Date Collected: 10/27/23 13:25

Matrix: Solid

Date Received: 10/31/23 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	129020	11/01/23 14:56	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	129306	11/03/23 15:38	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			129704	11/03/23 15:38	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			101425	11/03/23 14:07	CZT	EET HOU
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	129207	11/02/23 13:17	BH	EET HOU
Total/NA	Analysis	8015B NM		1			129332	11/03/23 14:07	CZT	EET HOU
Total/NA	Prep	300_Prep			5.02 g	50 mL	129184	11/02/23 11:31	HN	EET HOU
Total/NA	Analysis	300.0		1			129182	11/02/23 13:36	A1S	EET HOU
Total/NA	Analysis	SM 2540G		1			129437	11/03/23 14:22	JM	EET HOU

Client Sample ID: HW

Lab Sample ID: 880-35079-2

Date Collected: 10/27/23 13:30

Matrix: Solid

Date Received: 10/31/23 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	129020	11/01/23 14:56	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	129306	11/03/23 16:00	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			129704	11/03/23 16:00	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			101425	11/03/23 14:28	CZT	EET HOU
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	129207	11/02/23 13:17	BH	EET HOU
Total/NA	Analysis	8015B NM		1			129332	11/03/23 14:28	CZT	EET HOU
Total/NA	Prep	300_Prep			5.01 g	50 mL	129184	11/02/23 11:31	HN	EET HOU
Total/NA	Analysis	300.0		1			129182	11/02/23 13:45	A1S	EET HOU
Total/NA	Analysis	SM 2540G		1			129437	11/03/23 14:22	JM	EET HOU

Client Sample ID: HE

Lab Sample ID: 880-35079-3

Date Collected: 10/27/23 13:35

Matrix: Solid

Date Received: 10/31/23 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	129020	11/01/23 14:56	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	129306	11/03/23 16:22	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			129704	11/03/23 16:22	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			101425	11/03/23 15:09	CZT	EET HOU
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	129207	11/02/23 13:17	BH	EET HOU
Total/NA	Analysis	8015B NM		1			129332	11/03/23 15:09	CZT	EET HOU
Total/NA	Prep	300_Prep			4.97 g	50 mL	129184	11/02/23 11:31	HN	EET HOU
Total/NA	Analysis	300.0		1			129182	11/02/23 13:55	A1S	EET HOU
Total/NA	Analysis	SM 2540G		1			129437	11/03/23 14:22	JM	EET HOU

Lab Chronicle

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

Client Sample ID: S1/WEST 1

Lab Sample ID: 880-35079-4

Date Collected: 10/27/23 11:00

Matrix: Solid

Date Received: 10/31/23 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	129020	11/01/23 14:56	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	129306	11/03/23 16:43	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			129704	11/03/23 16:43	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			101425	11/03/23 15:30	CZT	EET HOU
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	129207	11/02/23 13:17	BH	EET HOU
Total/NA	Analysis	8015B NM		1			129332	11/03/23 15:30	CZT	EET HOU
Total/NA	Prep	300_Prep	DL		4.99 g	50 mL	129184	11/02/23 11:31	HN	EET HOU
Total/NA	Analysis	300.0	DL	10			129182	11/02/23 14:15	A1S	EET HOU
Total/NA	Analysis	SM 2540G		1			129437	11/03/23 14:22	JM	EET HOU

Client Sample ID: S2

Lab Sample ID: 880-35079-5

Date Collected: 10/27/23 11:05

Matrix: Solid

Date Received: 10/31/23 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	129020	11/01/23 14:56	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	129306	11/03/23 17:05	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			129704	11/03/23 17:05	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			101425	11/03/23 15:50	CZT	EET HOU
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	129207	11/02/23 13:17	BH	EET HOU
Total/NA	Analysis	8015B NM		1			129332	11/03/23 15:50	CZT	EET HOU
Total/NA	Prep	300_Prep	DL		5.01 g	50 mL	129184	11/02/23 11:31	HN	EET HOU
Total/NA	Analysis	300.0	DL	10			129182	11/02/23 15:13	A1S	EET HOU
Total/NA	Analysis	SM 2540G		1			129437	11/03/23 14:22	JM	EET HOU

Client Sample ID: S2

Lab Sample ID: 880-35079-6

Date Collected: 10/27/23 11:10

Matrix: Solid

Date Received: 10/31/23 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	129158	11/02/23 09:36	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	129108	11/02/23 14:02	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			129704	11/02/23 14:02	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			101425	11/03/23 18:35	CZT	EET HOU
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	129207	11/02/23 13:17	BH	EET HOU
Total/NA	Analysis	8015B NM		1			129329	11/03/23 18:35	T1S	EET HOU
Total/NA	Prep	300_Prep			4.98 g	50 mL	129184	11/02/23 11:31	HN	EET HOU
Total/NA	Analysis	300.0		1			129182	11/02/23 15:23	A1S	EET HOU
Total/NA	Analysis	SM 2540G		1			129437	11/03/23 14:22	JM	EET HOU

Lab Chronicle

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

Client Sample ID: S3

Lab Sample ID: 880-35079-7

Date Collected: 10/27/23 11:15

Matrix: Solid

Date Received: 10/31/23 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	129158	11/02/23 09:36	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	129108	11/02/23 14:23	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			129704	11/02/23 14:23	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			101425	11/03/23 16:11	CZT	EET HOU
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	129207	11/02/23 13:17	BH	EET HOU
Total/NA	Analysis	8015B NM		1			129332	11/03/23 16:11	CZT	EET HOU
Total/NA	Prep	300_Prep			4.98 g	50 mL	129184	11/02/23 11:31	HN	EET HOU
Total/NA	Analysis	300.0		1			129182	11/02/23 15:33	A1S	EET HOU
Total/NA	Analysis	SM 2540G		1			129437	11/03/23 14:22	JM	EET HOU

Client Sample ID: S3

Lab Sample ID: 880-35079-8

Date Collected: 10/27/23 11:20

Matrix: Solid

Date Received: 10/31/23 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	129158	11/02/23 09:36	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	129108	11/02/23 14:44	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			129704	11/02/23 14:44	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			101425	11/03/23 16:32	CZT	EET HOU
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	129207	11/02/23 13:17	BH	EET HOU
Total/NA	Analysis	8015B NM		1			129332	11/03/23 16:32	CZT	EET HOU
Total/NA	Prep	300_Prep			5.02 g	50 mL	129184	11/02/23 11:31	HN	EET HOU
Total/NA	Analysis	300.0		1			129182	11/02/23 15:42	A1S	EET HOU
Total/NA	Analysis	SM 2540G		1			129437	11/03/23 14:22	JM	EET HOU

Client Sample ID: S4

Lab Sample ID: 880-35079-9

Date Collected: 10/27/23 11:25

Matrix: Solid

Date Received: 10/31/23 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	129158	11/02/23 09:36	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	129108	11/02/23 15:05	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			129704	11/02/23 15:05	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			101425	11/03/23 16:32	CZT	EET HOU
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	129207	11/02/23 13:17	BH	EET HOU
Total/NA	Analysis	8015B NM		1			129329	11/03/23 16:32	T1S	EET HOU
Total/NA	Prep	300_Prep			5.02 g	50 mL	129184	11/02/23 11:31	HN	EET HOU
Total/NA	Analysis	300.0		1			129182	11/02/23 15:52	A1S	EET HOU
Total/NA	Analysis	SM 2540G		1			129437	11/03/23 14:22	JM	EET HOU

Lab Chronicle

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

Client Sample ID: S4

Lab Sample ID: 880-35079-10

Date Collected: 10/27/23 11:30

Matrix: Solid

Date Received: 10/31/23 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	129158	11/02/23 09:36	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	129108	11/02/23 15:26	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			129704	11/02/23 15:26	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			101425	11/03/23 16:52	CZT	EET HOU
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	129207	11/02/23 13:17	BH	EET HOU
Total/NA	Analysis	8015B NM		1			129329	11/03/23 16:52	T1S	EET HOU
Total/NA	Prep	300_Prep	DL		5.05 g	50 mL	129184	11/02/23 11:31	HN	EET HOU
Total/NA	Analysis	300.0	DL	10			129182	11/02/23 16:11	A1S	EET HOU
Total/NA	Analysis	SM 2540G		1			129437	11/03/23 14:22	JM	EET HOU

Client Sample ID: S5/WEST 2

Lab Sample ID: 880-35079-11

Date Collected: 10/27/23 11:35

Matrix: Solid

Date Received: 10/31/23 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	129365	11/03/23 11:31	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	129308	11/03/23 14:35	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			129704	11/03/23 14:35	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			101425	11/03/23 17:13	CZT	EET HOU
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	129207	11/02/23 13:17	BH	EET HOU
Total/NA	Analysis	8015B NM		1			129329	11/03/23 17:13	T1S	EET HOU
Total/NA	Prep	300_Prep	DL		5.04 g	50 mL	129184	11/02/23 11:31	HN	EET HOU
Total/NA	Analysis	300.0	DL	10			129182	11/02/23 16:50	A1S	EET HOU
Total/NA	Analysis	SM 2540G		1			129437	11/03/23 14:22	JM	EET HOU

Client Sample ID: S6

Lab Sample ID: 880-35079-12

Date Collected: 10/27/23 11:40

Matrix: Solid

Date Received: 10/31/23 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	129158	11/02/23 09:36	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	129108	11/02/23 15:47	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			129704	11/02/23 15:47	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			101425	11/03/23 17:33	CZT	EET HOU
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	129207	11/02/23 13:17	BH	EET HOU
Total/NA	Analysis	8015B NM		1			129329	11/03/23 17:33	T1S	EET HOU
Total/NA	Prep	300_Prep	DL		5.03 g	50 mL	129184	11/02/23 11:31	HN	EET HOU
Total/NA	Analysis	300.0	DL	10			129182	11/02/23 17:29	A1S	EET HOU
Total/NA	Analysis	SM 2540G		1			129437	11/03/23 14:22	JM	EET HOU

Eurofins Midland

Lab Chronicle

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

Client Sample ID: S6

Lab Sample ID: 880-35079-13

Date Collected: 10/27/23 11:45

Matrix: Solid

Date Received: 10/31/23 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	129158	11/02/23 09:36	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	129108	11/02/23 16:07	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			129704	11/02/23 16:07	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			101425	11/03/23 17:54	CZT	EET HOU
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	129207	11/02/23 13:17	BH	EET HOU
Total/NA	Analysis	8015B NM		1			129329	11/03/23 17:54	T1S	EET HOU
Total/NA	Prep	300_Prep			5.02 g	50 mL	129184	11/02/23 11:31	HN	EET HOU
Total/NA	Analysis	300.0		1			129182	11/02/23 17:42	A1S	EET HOU
Total/NA	Analysis	SM 2540G		1			129437	11/03/23 14:22	JM	EET HOU

Client Sample ID: S7

Lab Sample ID: 880-35079-14

Date Collected: 10/27/23 11:50

Matrix: Solid

Date Received: 10/31/23 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	129158	11/02/23 09:36	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	129108	11/02/23 16:28	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			129704	11/02/23 16:28	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			101425	11/03/23 16:52	CZT	EET HOU
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	129207	11/02/23 13:17	BH	EET HOU
Total/NA	Analysis	8015B NM		1			129332	11/03/23 16:52	CZT	EET HOU
Total/NA	Prep	300_Prep			5.03 g	50 mL	129184	11/02/23 11:31	HN	EET HOU
Total/NA	Analysis	300.0		1			129182	11/02/23 18:07	A1S	EET HOU
Total/NA	Analysis	SM 2540G		1			129437	11/03/23 14:22	JM	EET HOU

Client Sample ID: S7

Lab Sample ID: 880-35079-15

Date Collected: 10/27/23 11:55

Matrix: Solid

Date Received: 10/31/23 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	129158	11/02/23 09:36	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	129108	11/02/23 16:49	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			129704	11/02/23 16:49	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			101425	11/03/23 17:13	CZT	EET HOU
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	129207	11/02/23 13:17	BH	EET HOU
Total/NA	Analysis	8015B NM		1			129332	11/03/23 17:13	CZT	EET HOU
Total/NA	Prep	300_Prep			5.01 g	50 mL	129184	11/02/23 11:31	HN	EET HOU
Total/NA	Analysis	300.0		1			129182	11/02/23 18:20	A1S	EET HOU
Total/NA	Analysis	SM 2540G		1			129437	11/03/23 14:22	JM	EET HOU

Eurofins Midland

Lab Chronicle

Client: Select Energy Services
 Project/Site: Red Deer

Job ID: 880-35079-1
 SDG: Chaves Co

Client Sample ID: S8/EAST1

Lab Sample ID: 880-35079-16

Date Collected: 10/27/23 12:00

Matrix: Solid

Date Received: 10/31/23 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	129158	11/02/23 09:36	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	129108	11/02/23 17:10	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			129704	11/02/23 17:10	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			101425	11/03/23 17:33	CZT	EET HOU
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	129207	11/02/23 13:17	BH	EET HOU
Total/NA	Analysis	8015B NM		1			129332	11/03/23 17:33	CZT	EET HOU
Total/NA	Prep	300_Prep			4.99 g	50 mL	129184	11/02/23 11:31	HN	EET HOU
Total/NA	Analysis	300.0		1			129182	11/02/23 18:58	A1S	EET HOU
Total/NA	Analysis	SM 2540G		1			129437	11/03/23 14:22	JM	EET HOU

Client Sample ID: S9/EAST2

Lab Sample ID: 880-35079-17

Date Collected: 10/27/23 12:05

Matrix: Solid

Date Received: 10/31/23 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	129158	11/02/23 09:36	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	129108	11/02/23 17:31	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			129704	11/02/23 17:31	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			101425	11/03/23 18:15	CZT	EET HOU
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	129207	11/02/23 13:17	BH	EET HOU
Total/NA	Analysis	8015B NM		1			129329	11/03/23 18:15	T1S	EET HOU
Total/NA	Prep	300_Prep			4.97 g	50 mL	129184	11/02/23 11:31	HN	EET HOU
Total/NA	Analysis	300.0		1			129182	11/02/23 19:11	A1S	EET HOU
Total/NA	Analysis	SM 2540G		1			129437	11/03/23 14:22	JM	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-53	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over C28-C36)
Total BTEX		Solid	Total BTEX

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Method Summary

Client: Select Energy Services
 Project/Site: Red Deer

Job ID: 880-35079-1
 SDG: Chaves Co

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
Total BTEX	Total BTEX Calculation	TAL SOP	EET HOU
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET HOU
SM 2540G	Total, Fixed, and Volatile Solids	SM	EET HOU
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	EPA	EET HOU
5035	Closed System Purge and Trap	SW846	EET HOU
8015NM Prep	Microextraction	SW846	EET HOU

Protocol References:

- EPA = US Environmental Protection Agency
- SM = "Standard Methods For The Examination Of Water And Wastewater"
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

- EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200



Sample Summary

Client: Select Energy Services
Project/Site: Red Deer

Job ID: 880-35079-1
SDG: Chaves Co

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-35079-1	HN	Solid	10/27/23 13:25	10/31/23 11:30	0'
880-35079-2	HW	Solid	10/27/23 13:30	10/31/23 11:30	0'
880-35079-3	HE	Solid	10/27/23 13:35	10/31/23 11:30	0'
880-35079-4	S1/WEST 1	Solid	10/27/23 11:00	10/31/23 11:30	1'
880-35079-5	S2	Solid	10/27/23 11:05	10/31/23 11:30	0'
880-35079-6	S2	Solid	10/27/23 11:10	10/31/23 11:30	1'
880-35079-7	S3	Solid	10/27/23 11:15	10/31/23 11:30	0'
880-35079-8	S3	Solid	10/27/23 11:20	10/31/23 11:30	1'
880-35079-9	S4	Solid	10/27/23 11:25	10/31/23 11:30	0'
880-35079-10	S4	Solid	10/27/23 11:30	10/31/23 11:30	1'
880-35079-11	S5/WEST 2	Solid	10/27/23 11:35	10/31/23 11:30	1'
880-35079-12	S6	Solid	10/27/23 11:40	10/31/23 11:30	0'
880-35079-13	S6	Solid	10/27/23 11:45	10/31/23 11:30	1'
880-35079-14	S7	Solid	10/27/23 11:50	10/31/23 11:30	0'
880-35079-15	S7	Solid	10/27/23 11:55	10/31/23 11:30	1'
880-35079-16	S8/EAST1	Solid	10/27/23 12:00	10/31/23 11:30	1'
880-35079-17	S9/EAST2	Solid	10/27/23 12:05	10/31/23 11:30	1'

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Loc: 880
35079

Work Order No: _____

www.xenco.com Page _____ of _____

Chain of Custody

Houston, TX (281) 240-4200, Dallas TX (214) 902-0300
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334
EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392 7550 Carlsbad, NM (575) 988-3199

Environment Testing
Xenco



Work Order Comments

Program: UST/PST PRP Brownfields RRC Superfund

State of Project: Level I Level III Level IV

Reporting Level II Level III Level IV

Deliverables: EDD ADaPT Other: _____

Project Manager: **TIM SAW BRICKER**

Company Name: **SELECT WATER**

Address: **1502 E BREENE ST**

City State ZIP: **CARLSBAD NM 88220**

Phone: **575-700-7551** Email: **timbricker@selectwater.com**

Project Name: **PEW DEER**

Project Number: **2023-014**

Project Location: **CHAVES CO**

Sampler's Name: **TIM SAW BRICKER**

P.O #

Turn Around: Routine Rush

Due Date: _____

TAT starts the day received by the lab, if received by 4:30pm

Temp Blank: Yes No

Thermometer ID: **70.2**

Correction Factor: **0.4**

Temperature Reading: **24.0**

Corrected Temperature: **24.0**

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	ANALYSIS REQUEST	Preservative Codes	Sample Comments
S5/WEST 2	S	10/27	11:35a	1'				None NO	DI Water H ₂ O
S16	S	10/27	11:40a	0'				Cool Cool	MeOH Me
S19	S	10/27	11:45a	1'				HCL.HC	HNO ₃ HN
S7	S	10/27	11:50a	0'				H ₂ SO ₄ H ₂	NaOH Na
S7	S	10/27	11:55a	1'				H ₃ PO ₄ HP	
S8/EAST 1	S	10/27	12:00p	1'				NaHSO ₄ NABIS	
S9/EAST 2	S	10/27	12:05p	1'				Na ₂ S ₂ O ₃ NaSO ₃	
								Zn Acetate+NaOH Zn	
								NaOH+Ascorbic Acid SAPC	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	10/27	<i>[Signature]</i>	<i>[Signature]</i>	10/31/23
					11/30

Revised Date: 08/25/2020 Rev. 2020.2



Login Sample Receipt Checklist

Client: Select Energy Services

Job Number: 880-35079-1

SDG Number: Chaves Co

Login Number: 35079

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Select Energy Services

Job Number: 880-35079-1

SDG Number: Chaves Co

Login Number: 35079

List Number: 2

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 11/01/23 01:27 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Timsan Bricker
 Select Energy Services
 7904 W Hwy 80
 Midland, Texas 79706

Generated 1/12/2024 3:38:22 PM

JOB DESCRIPTION

Redaeer

JOB NUMBER

890-5895-1



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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1/12/2024 3:38:22 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

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Client: Select Energy Services
Project/Site: Redaeer

Laboratory Job ID: 890-5895-1

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Definitions/Glossary

Client: Select Energy Services
Project/Site: Redaeer

Job ID: 890-5895-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: Select Energy Services
Project: Redaeer

Job ID: 890-5895-1

Job ID: 890-5895-1

Eurofins Carlsbad

Job Narrative 890-5895-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/5/2024 8:19 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S1 WEST 1 (890-5895-1), S2 (890-5895-2), S3 (890-5895-3), S4 (890-5895-4), S5/WEST 2 (890-5895-5), S6 (890-5895-6), S7 (890-5895-7), HN (890-5895-8), HW (890-5895-9) and HE (890-5895-10).

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method 2540G: The sample duplicate (DUP) precision for analytical batch 860-139841 was outside control limits. Sample non-homogeneity is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Carlsbad



Client Sample Results

Client: Select Energy Services
Project/Site: Redaer

Job ID: 890-5895-1

Client Sample ID: S1 WEST 1

Lab Sample ID: 890-5895-1

Date Collected: 01/04/24 11:35

Matrix: Solid

Date Received: 01/05/24 08:19

Sample Depth: 2.5

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	21.0	mg/Kg			01/09/24 18:14	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	21.0	mg/Kg		01/09/24 09:40	01/09/24 18:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	21.0	mg/Kg		01/09/24 09:40	01/09/24 18:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	21.0	mg/Kg		01/09/24 09:40	01/09/24 18:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		65 - 130				01/09/24 09:40	01/09/24 18:14	1
o-Terphenyl	96		65 - 130				01/09/24 09:40	01/09/24 18:14	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	700		9.90	4.95	mg/Kg		01/11/24 18:30	01/11/24 21:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	91.3				%			01/09/24 11:00	1

Client Sample ID: S2

Lab Sample ID: 890-5895-2

Date Collected: 01/04/24 11:40

Matrix: Solid

Date Received: 01/05/24 08:19

Sample Depth: 2.5

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	21.0	mg/Kg			01/09/24 18:35	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	21.0	mg/Kg		01/09/24 09:40	01/09/24 18:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	21.0	mg/Kg		01/09/24 09:40	01/09/24 18:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	21.0	mg/Kg		01/09/24 09:40	01/09/24 18:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		65 - 130				01/09/24 09:40	01/09/24 18:35	1
o-Terphenyl	103		65 - 130				01/09/24 09:40	01/09/24 18:35	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.9		9.98	4.99	mg/Kg		01/11/24 18:30	01/11/24 21:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	85.1				%			01/09/24 11:00	1

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Client Sample Results

Client: Select Energy Services
Project/Site: Redaer

Job ID: 890-5895-1

Client Sample ID: S3

Lab Sample ID: 890-5895-3

Date Collected: 01/04/24 11:45

Matrix: Solid

Date Received: 01/05/24 08:19

Sample Depth: 2.5

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	21.1	mg/Kg			01/09/24 18:56	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	21.1	mg/Kg		01/09/24 09:40	01/09/24 18:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	21.1	mg/Kg		01/09/24 09:40	01/09/24 18:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	21.1	mg/Kg		01/09/24 09:40	01/09/24 18:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		65 - 130	01/09/24 09:40	01/09/24 18:56	1
o-Terphenyl	89		65 - 130	01/09/24 09:40	01/09/24 18:56	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		9.96	4.98	mg/Kg		01/11/24 18:30	01/11/24 21:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	90.5				%			01/09/24 11:00	1

Client Sample ID: S4

Lab Sample ID: 890-5895-4

Date Collected: 01/04/24 11:50

Matrix: Solid

Date Received: 01/05/24 08:19

Sample Depth: 2.5

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	21.1	mg/Kg			01/09/24 15:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	21.1	mg/Kg		01/09/24 09:40	01/09/24 15:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	21.1	mg/Kg		01/09/24 09:40	01/09/24 15:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	21.1	mg/Kg		01/09/24 09:40	01/09/24 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	68		65 - 130	01/09/24 09:40	01/09/24 15:47	1
o-Terphenyl	73		65 - 130	01/09/24 09:40	01/09/24 15:47	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3660		9.90	4.95	mg/Kg		01/11/24 18:30	01/11/24 22:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	78.2				%			01/09/24 11:00	1

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Client Sample Results

Client: Select Energy Services
Project/Site: Redaer

Job ID: 890-5895-1

Client Sample ID: S5/WEST 2

Lab Sample ID: 890-5895-5

Date Collected: 01/04/24 11:55

Matrix: Solid

Date Received: 01/05/24 08:19

Sample Depth: 2.5

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	21.0	mg/Kg			01/09/24 16:08	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	21.0	mg/Kg		01/09/24 09:40	01/09/24 16:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	21.0	mg/Kg		01/09/24 09:40	01/09/24 16:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	21.0	mg/Kg		01/09/24 09:40	01/09/24 16:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		65 - 130				01/09/24 09:40	01/09/24 16:08	1
o-Terphenyl	97		65 - 130				01/09/24 09:40	01/09/24 16:08	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	722		9.96	4.98	mg/Kg		01/11/24 18:30	01/11/24 22:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	85.5				%			01/09/24 11:00	1

Client Sample ID: S6

Lab Sample ID: 890-5895-6

Date Collected: 01/04/24 12:00

Matrix: Solid

Date Received: 01/05/24 08:19

Sample Depth: 2.5

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	21.1	mg/Kg			01/09/24 16:29	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	21.1	mg/Kg		01/09/24 09:40	01/09/24 16:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	21.1	mg/Kg		01/09/24 09:40	01/09/24 16:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	21.1	mg/Kg		01/09/24 09:40	01/09/24 16:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		65 - 130				01/09/24 09:40	01/09/24 16:29	1
o-Terphenyl	99		65 - 130				01/09/24 09:40	01/09/24 16:29	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2270		9.96	4.98	mg/Kg		01/11/24 18:30	01/11/24 23:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	78.0				%			01/09/24 11:00	1

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Client Sample Results

Client: Select Energy Services
Project/Site: Redaer

Job ID: 890-5895-1

Client Sample ID: S7

Lab Sample ID: 890-5895-7

Date Collected: 01/04/24 12:05

Matrix: Solid

Date Received: 01/05/24 08:19

Sample Depth: 2.5

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	21.1	mg/Kg			01/09/24 16:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	21.1	mg/Kg		01/09/24 09:40	01/09/24 16:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	21.1	mg/Kg		01/09/24 09:40	01/09/24 16:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	21.1	mg/Kg		01/09/24 09:40	01/09/24 16:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		65 - 130	01/09/24 09:40	01/09/24 16:49	1
o-Terphenyl	101		65 - 130	01/09/24 09:40	01/09/24 16:49	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1080		9.98	4.99	mg/Kg		01/11/24 18:30	01/11/24 23:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	85.1				%			01/09/24 11:00	1

Client Sample ID: HN

Lab Sample ID: 890-5895-8

Date Collected: 01/04/24 11:30

Matrix: Solid

Date Received: 01/05/24 08:19

Sample Depth: 1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	21.1	mg/Kg			01/09/24 17:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	21.1	mg/Kg		01/09/24 09:40	01/09/24 17:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	21.1	mg/Kg		01/09/24 09:40	01/09/24 17:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	21.1	mg/Kg		01/09/24 09:40	01/09/24 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		65 - 130	01/09/24 09:40	01/09/24 17:31	1
o-Terphenyl	97		65 - 130	01/09/24 09:40	01/09/24 17:31	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.1		9.94	4.97	mg/Kg		01/11/24 18:30	01/11/24 23:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	94.8				%			01/09/24 11:00	1

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Client Sample Results

Client: Select Energy Services
Project/Site: Redaer

Job ID: 890-5895-1

Client Sample ID: HW

Lab Sample ID: 890-5895-9

Date Collected: 01/04/24 12:10

Matrix: Solid

Date Received: 01/05/24 08:19

Sample Depth: 1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	21.0	mg/Kg			01/09/24 17:52	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	21.0	mg/Kg		01/09/24 09:40	01/09/24 17:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	21.0	mg/Kg		01/09/24 09:40	01/09/24 17:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	21.0	mg/Kg		01/09/24 09:40	01/09/24 17:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		65 - 130				01/09/24 09:40	01/09/24 17:52	1
o-Terphenyl	92		65 - 130				01/09/24 09:40	01/09/24 17:52	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.3		9.92	4.96	mg/Kg		01/11/24 18:30	01/11/24 23:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	92.7				%			01/09/24 11:00	1

Client Sample ID: HE

Lab Sample ID: 890-5895-10

Date Collected: 01/04/24 12:15

Matrix: Solid

Date Received: 01/05/24 08:19

Sample Depth: 1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	21.1	J	49.9	21.1	mg/Kg			01/11/24 14:03	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	21.1	mg/Kg		01/10/24 09:57	01/11/24 14:03	1
Diesel Range Organics (Over C10-C28)	21.1	J	49.9	21.1	mg/Kg		01/10/24 09:57	01/11/24 14:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	21.1	mg/Kg		01/10/24 09:57	01/11/24 14:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		65 - 130				01/10/24 09:57	01/11/24 14:03	1
o-Terphenyl	104		65 - 130				01/10/24 09:57	01/11/24 14:03	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	693		9.90	4.95	mg/Kg		01/11/24 18:30	01/11/24 23:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids (SM 2540G)	91.6				%			01/09/24 11:00	1

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Surrogate Summary

Client: Select Energy Services
 Project/Site: Redaer

Job ID: 890-5895-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (65-130)	OTPH1 (65-130)
890-5895-1	S1 WEST 1	97	96
890-5895-2	S2	100	103
890-5895-3	S3	87	89
890-5895-4	S4	68	73
890-5895-5	S5/WEST 2	95	97
890-5895-6	S6	97	99
890-5895-7	S7	100	101
890-5895-8	HN	95	97
890-5895-9	HW	89	92
890-5895-10	HE	102	104
LCS 860-139797/2-A	Lab Control Sample	85	69
LCS 860-139972/2-A	Lab Control Sample	113	91
LCSD 860-139797/3-A	Lab Control Sample Dup	86	69
LCSD 860-139972/3-A	Lab Control Sample Dup	115	94
MB 860-139797/1-A	Method Blank	76	68
MB 860-139972/1-A	Method Blank	102	102

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Sample Results

Client: Select Energy Services
Project/Site: Redaer

Job ID: 890-5895-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 860-139797/1-A
Matrix: Solid
Analysis Batch: 140011

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 139797

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	21.1	mg/Kg		01/09/24 09:40	01/10/24 15:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	21.1	mg/Kg		01/09/24 09:40	01/10/24 15:30	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	21.1	mg/Kg		01/09/24 09:40	01/10/24 15:30	1
Surrogate	MB MB		Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	76		65 - 130				01/09/24 09:40	01/10/24 15:30	1
o-Terphenyl	68		65 - 130				01/09/24 09:40	01/10/24 15:30	1

Lab Sample ID: LCS 860-139797/2-A
Matrix: Solid
Analysis Batch: 140011

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 139797

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	999	888.6		mg/Kg		89	70 - 135
Surrogate	LCS LCS		Limits				
	%Recovery	Qualifier					
1-Chlorooctane	85		65 - 130				
o-Terphenyl	69		65 - 130				

Lab Sample ID: LCSD 860-139797/3-A
Matrix: Solid
Analysis Batch: 140011

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 139797

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	999	834.1		mg/Kg		83	70 - 135	1	35
Diesel Range Organics (Over C10-C28)	999	902.8		mg/Kg		90	70 - 135	2	35
Surrogate	LCSD LCSD		Limits						
	%Recovery	Qualifier							
1-Chlorooctane	86		65 - 130						
o-Terphenyl	69		65 - 130						

Lab Sample ID: MB 860-139972/1-A
Matrix: Solid
Analysis Batch: 140118

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 139972

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	21.1	mg/Kg		01/10/24 09:57	01/11/24 12:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	21.1	mg/Kg		01/10/24 09:57	01/11/24 12:47	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	21.1	mg/Kg		01/10/24 09:57	01/11/24 12:47	1

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QC Sample Results

Client: Select Energy Services
Project/Site: Redaer

Job ID: 890-5895-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 860-139972/1-A
Matrix: Solid
Analysis Batch: 140118

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 139972

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	102		65 - 130	01/10/24 09:57	01/11/24 12:47	1
o-Terphenyl	102		65 - 130	01/10/24 09:57	01/11/24 12:47	1

Lab Sample ID: LCS 860-139972/2-A
Matrix: Solid
Analysis Batch: 140118

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 139972

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
							LCS	LCS
Gasoline Range Organics (GRO)-C6-C10	999	980.6		mg/Kg		98	70 - 135	
Diesel Range Organics (Over C10-C28)	999	1246		mg/Kg		125	70 - 135	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	113		65 - 130
o-Terphenyl	91		65 - 130

Lab Sample ID: LCSD 860-139972/3-A
Matrix: Solid
Analysis Batch: 140118

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 139972

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD	RPD Limit
							LCSD	LCSD	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	999	977.7		mg/Kg		98	70 - 135	0	35	
Diesel Range Organics (Over C10-C28)	999	1221		mg/Kg		122	70 - 135	2	35	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	115		65 - 130
o-Terphenyl	94		65 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-140296/1-A
Matrix: Solid
Analysis Batch: 140291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 140296

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<10.0	U	10.0	5.00	mg/Kg		01/11/24 18:30	01/11/24 18:39	1

Lab Sample ID: LCS 860-140296/2-A
Matrix: Solid
Analysis Batch: 140291

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140296

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
							LCS	LCS
Chloride	100	99.80		mg/Kg		100	80 - 120	

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QC Sample Results

Client: Select Energy Services
Project/Site: Redaeer

Job ID: 890-5895-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-140296/3-A
Matrix: Solid
Analysis Batch: 140291

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 140296

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	100.3		mg/Kg		100	80 - 120	1	20

Lab Sample ID: 890-5895-1 MS
Matrix: Solid
Analysis Batch: 140291

Client Sample ID: S1 WEST 1
Prep Type: Total/NA
Prep Batch: 140296

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	700		99.2	813.7	4	mg/Kg		115	80 - 120

Lab Sample ID: 890-5895-1 MSD
Matrix: Solid
Analysis Batch: 140291

Client Sample ID: S1 WEST 1
Prep Type: Total/NA
Prep Batch: 140296

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	700		99.4	818.2	4	mg/Kg		119	80 - 120	1	15

Method: SM 2540G - Total, Fixed, and Volatile Solids

Lab Sample ID: MB 860-139841/1
Matrix: Solid
Analysis Batch: 139841

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids	100.0				%			01/09/24 11:00	1

Lab Sample ID: 890-5895-1 DU
Matrix: Solid
Analysis Batch: 139841

Client Sample ID: S1 WEST 1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Solids	91.3		89.75		%		2	10

QC Association Summary

Client: Select Energy Services
 Project/Site: Redaeer

Job ID: 890-5895-1

GC Semi VOA

Analysis Batch: 130308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5895-1	S1 WEST 1	Total/NA	Solid	8015 NM	
890-5895-2	S2	Total/NA	Solid	8015 NM	
890-5895-3	S3	Total/NA	Solid	8015 NM	
890-5895-4	S4	Total/NA	Solid	8015 NM	
890-5895-5	S5/WEST 2	Total/NA	Solid	8015 NM	
890-5895-6	S6	Total/NA	Solid	8015 NM	
890-5895-7	S7	Total/NA	Solid	8015 NM	
890-5895-8	HN	Total/NA	Solid	8015 NM	
890-5895-9	HW	Total/NA	Solid	8015 NM	
890-5895-10	HE	Total/NA	Solid	8015 NM	

Analysis Batch: 139750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5895-1	S1 WEST 1	Total/NA	Solid	8015B NM	139797
890-5895-2	S2	Total/NA	Solid	8015B NM	139797
890-5895-3	S3	Total/NA	Solid	8015B NM	139797
890-5895-4	S4	Total/NA	Solid	8015B NM	139797
890-5895-5	S5/WEST 2	Total/NA	Solid	8015B NM	139797
890-5895-6	S6	Total/NA	Solid	8015B NM	139797
890-5895-7	S7	Total/NA	Solid	8015B NM	139797
890-5895-8	HN	Total/NA	Solid	8015B NM	139797
890-5895-9	HW	Total/NA	Solid	8015B NM	139797

Prep Batch: 139797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5895-1	S1 WEST 1	Total/NA	Solid	8015NM Prep	
890-5895-2	S2	Total/NA	Solid	8015NM Prep	
890-5895-3	S3	Total/NA	Solid	8015NM Prep	
890-5895-4	S4	Total/NA	Solid	8015NM Prep	
890-5895-5	S5/WEST 2	Total/NA	Solid	8015NM Prep	
890-5895-6	S6	Total/NA	Solid	8015NM Prep	
890-5895-7	S7	Total/NA	Solid	8015NM Prep	
890-5895-8	HN	Total/NA	Solid	8015NM Prep	
890-5895-9	HW	Total/NA	Solid	8015NM Prep	
MB 860-139797/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-139797/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-139797/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 139972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5895-10	HE	Total/NA	Solid	8015NM Prep	
MB 860-139972/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-139972/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-139972/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 140011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-139797/1-A	Method Blank	Total/NA	Solid	8015B NM	139797
LCS 860-139797/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	139797
LCSD 860-139797/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	139797

Eurofins Carlsbad

QC Association Summary

Client: Select Energy Services
 Project/Site: Redaeer

Job ID: 890-5895-1

GC Semi VOA

Analysis Batch: 140118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5895-10	HE	Total/NA	Solid	8015B NM	139972
MB 860-139972/1-A	Method Blank	Total/NA	Solid	8015B NM	139972
LCS 860-139972/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	139972
LCSD 860-139972/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	139972

HPLC/IC

Analysis Batch: 140291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5895-1	S1 WEST 1	Total/NA	Solid	300.0	140296
890-5895-2	S2	Total/NA	Solid	300.0	140296
890-5895-3	S3	Total/NA	Solid	300.0	140296
890-5895-4	S4	Total/NA	Solid	300.0	140296
890-5895-5	S5/WEST 2	Total/NA	Solid	300.0	140296
890-5895-6	S6	Total/NA	Solid	300.0	140296
890-5895-7	S7	Total/NA	Solid	300.0	140296
890-5895-8	HN	Total/NA	Solid	300.0	140296
890-5895-9	HW	Total/NA	Solid	300.0	140296
890-5895-10	HE	Total/NA	Solid	300.0	140296
MB 860-140296/1-A	Method Blank	Total/NA	Solid	300.0	140296
LCS 860-140296/2-A	Lab Control Sample	Total/NA	Solid	300.0	140296
LCSD 860-140296/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	140296
890-5895-1 MS	S1 WEST 1	Total/NA	Solid	300.0	140296
890-5895-1 MSD	S1 WEST 1	Total/NA	Solid	300.0	140296

Prep Batch: 140296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5895-1	S1 WEST 1	Total/NA	Solid	300_Prep	
890-5895-2	S2	Total/NA	Solid	300_Prep	
890-5895-3	S3	Total/NA	Solid	300_Prep	
890-5895-4	S4	Total/NA	Solid	300_Prep	
890-5895-5	S5/WEST 2	Total/NA	Solid	300_Prep	
890-5895-6	S6	Total/NA	Solid	300_Prep	
890-5895-7	S7	Total/NA	Solid	300_Prep	
890-5895-8	HN	Total/NA	Solid	300_Prep	
890-5895-9	HW	Total/NA	Solid	300_Prep	
890-5895-10	HE	Total/NA	Solid	300_Prep	
MB 860-140296/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-140296/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-140296/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
890-5895-1 MS	S1 WEST 1	Total/NA	Solid	300_Prep	
890-5895-1 MSD	S1 WEST 1	Total/NA	Solid	300_Prep	

General Chemistry

Analysis Batch: 139841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5895-1	S1 WEST 1	Total/NA	Solid	SM 2540G	
890-5895-2	S2	Total/NA	Solid	SM 2540G	
890-5895-3	S3	Total/NA	Solid	SM 2540G	
890-5895-4	S4	Total/NA	Solid	SM 2540G	
890-5895-5	S5/WEST 2	Total/NA	Solid	SM 2540G	

Eurofins Carlsbad

QC Association Summary

Client: Select Energy Services
Project/Site: Redaeer

Job ID: 890-5895-1

General Chemistry (Continued)

Analysis Batch: 139841 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5895-6	S6	Total/NA	Solid	SM 2540G	
890-5895-7	S7	Total/NA	Solid	SM 2540G	
890-5895-8	HN	Total/NA	Solid	SM 2540G	
890-5895-9	HW	Total/NA	Solid	SM 2540G	
890-5895-10	HE	Total/NA	Solid	SM 2540G	
MB 860-139841/1	Method Blank	Total/NA	Solid	SM 2540G	
890-5895-1 DU	S1 WEST 1	Total/NA	Solid	SM 2540G	

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Lab Chronicle

Client: Select Energy Services
Project/Site: Redaer

Job ID: 890-5895-1

Client Sample ID: S1 WEST 1

Lab Sample ID: 890-5895-1

Date Collected: 01/04/24 11:35

Matrix: Solid

Date Received: 01/05/24 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			130308	01/09/24 18:14	ELJ	EET HOU
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	139797	01/09/24 09:40	DS	EET HOU
Total/NA	Analysis	8015B NM		1			139750	01/09/24 18:14	T1S	EET HOU
Total/NA	Prep	300_Prep			5.05 g	50 mL	140296	01/11/24 18:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			140291	01/11/24 21:16	A1S	EET HOU
Total/NA	Analysis	SM 2540G		1			139841	01/09/24 11:00	JM	EET HOU

Client Sample ID: S2

Lab Sample ID: 890-5895-2

Date Collected: 01/04/24 11:40

Matrix: Solid

Date Received: 01/05/24 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			130308	01/09/24 18:35	ELJ	EET HOU
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	139797	01/09/24 09:40	DS	EET HOU
Total/NA	Analysis	8015B NM		1			139750	01/09/24 18:35	T1S	EET HOU
Total/NA	Prep	300_Prep			5.01 g	50 mL	140296	01/11/24 18:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			140291	01/11/24 21:46	A1S	EET HOU
Total/NA	Analysis	SM 2540G		1			139841	01/09/24 11:00	JM	EET HOU

Client Sample ID: S3

Lab Sample ID: 890-5895-3

Date Collected: 01/04/24 11:45

Matrix: Solid

Date Received: 01/05/24 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			130308	01/09/24 18:56	ELJ	EET HOU
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	139797	01/09/24 09:40	DS	EET HOU
Total/NA	Analysis	8015B NM		1			139750	01/09/24 18:56	T1S	EET HOU
Total/NA	Prep	300_Prep			5.02 g	50 mL	140296	01/11/24 18:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			140291	01/11/24 21:55	A1S	EET HOU
Total/NA	Analysis	SM 2540G		1			139841	01/09/24 11:00	JM	EET HOU

Client Sample ID: S4

Lab Sample ID: 890-5895-4

Date Collected: 01/04/24 11:50

Matrix: Solid

Date Received: 01/05/24 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			130308	01/09/24 15:47	ELJ	EET HOU
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	139797	01/09/24 09:40	DS	EET HOU
Total/NA	Analysis	8015B NM		1			139750	01/09/24 15:47	T1S	EET HOU
Total/NA	Prep	300_Prep			5.05 g	50 mL	140296	01/11/24 18:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			140291	01/11/24 22:05	A1S	EET HOU
Total/NA	Analysis	SM 2540G		1			139841	01/09/24 11:00	JM	EET HOU

Eurofins Carlsbad

Lab Chronicle

Client: Select Energy Services
Project/Site: Redaer

Job ID: 890-5895-1

Client Sample ID: S5/WEST 2

Lab Sample ID: 890-5895-5

Date Collected: 01/04/24 11:55

Matrix: Solid

Date Received: 01/05/24 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			130308	01/09/24 16:08	ELJ	EET HOU
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	139797	01/09/24 09:40	DS	EET HOU
Total/NA	Analysis	8015B NM		1			139750	01/09/24 16:08	T1S	EET HOU
Total/NA	Prep	300_Prep			5.02 g	50 mL	140296	01/11/24 18:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			140291	01/11/24 22:54	A1S	EET HOU
Total/NA	Analysis	SM 2540G		1			139841	01/09/24 11:00	JM	EET HOU

Client Sample ID: S6

Lab Sample ID: 890-5895-6

Date Collected: 01/04/24 12:00

Matrix: Solid

Date Received: 01/05/24 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			130308	01/09/24 16:29	ELJ	EET HOU
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	139797	01/09/24 09:40	DS	EET HOU
Total/NA	Analysis	8015B NM		1			139750	01/09/24 16:29	T1S	EET HOU
Total/NA	Prep	300_Prep			5.02 g	50 mL	140296	01/11/24 18:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			140291	01/11/24 23:04	A1S	EET HOU
Total/NA	Analysis	SM 2540G		1			139841	01/09/24 11:00	JM	EET HOU

Client Sample ID: S7

Lab Sample ID: 890-5895-7

Date Collected: 01/04/24 12:05

Matrix: Solid

Date Received: 01/05/24 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			130308	01/09/24 16:49	ELJ	EET HOU
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	139797	01/09/24 09:40	DS	EET HOU
Total/NA	Analysis	8015B NM		1			139750	01/09/24 16:49	T1S	EET HOU
Total/NA	Prep	300_Prep			5.01 g	50 mL	140296	01/11/24 18:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			140291	01/11/24 23:14	A1S	EET HOU
Total/NA	Analysis	SM 2540G		1			139841	01/09/24 11:00	JM	EET HOU

Client Sample ID: HN

Lab Sample ID: 890-5895-8

Date Collected: 01/04/24 11:30

Matrix: Solid

Date Received: 01/05/24 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			130308	01/09/24 17:31	ELJ	EET HOU
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	139797	01/09/24 09:40	DS	EET HOU
Total/NA	Analysis	8015B NM		1			139750	01/09/24 17:31	T1S	EET HOU
Total/NA	Prep	300_Prep			5.03 g	50 mL	140296	01/11/24 18:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			140291	01/11/24 23:24	A1S	EET HOU
Total/NA	Analysis	SM 2540G		1			139841	01/09/24 11:00	JM	EET HOU

Eurofins Carlsbad

Lab Chronicle

Client: Select Energy Services
 Project/Site: Redaeer

Job ID: 890-5895-1

Client Sample ID: HW

Lab Sample ID: 890-5895-9

Date Collected: 01/04/24 12:10

Matrix: Solid

Date Received: 01/05/24 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			130308	01/09/24 17:52	ELJ	EET HOU
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	139797	01/09/24 09:40	DS	EET HOU
Total/NA	Analysis	8015B NM		1			139750	01/09/24 17:52	T1S	EET HOU
Total/NA	Prep	300_Prep			5.04 g	50 mL	140296	01/11/24 18:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			140291	01/11/24 23:34	A1S	EET HOU
Total/NA	Analysis	SM 2540G		1			139841	01/09/24 11:00	JM	EET HOU

Client Sample ID: HE

Lab Sample ID: 890-5895-10

Date Collected: 01/04/24 12:15

Matrix: Solid

Date Received: 01/05/24 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			130308	01/11/24 14:03	ELJ	EET HOU
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	139972	01/10/24 09:57	DS	EET HOU
Total/NA	Analysis	8015B NM		1			140118	01/11/24 14:03	T1S	EET HOU
Total/NA	Prep	300_Prep			5.05 g	50 mL	140296	01/11/24 18:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			140291	01/11/24 23:44	A1S	EET HOU
Total/NA	Analysis	SM 2540G		1			139841	01/09/24 11:00	JM	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Select Energy Services
Project/Site: Redaeer

Job ID: 890-5895-1

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-53	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over C28-C36)

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Method Summary

Client: Select Energy Services
Project/Site: Redaeer

Job ID: 890-5895-1

Method	Method Description	Protocol	Laboratory
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET HOU
SM 2540G	Total, Fixed, and Volatile Solids	SM	EET HOU
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	EPA	EET HOU
8015NM Prep	Microextraction	SW846	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200



Sample Summary

Client: Select Energy Services
Project/Site: Redaer

Job ID: 890-5895-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5895-1	S1 WEST 1	Solid	01/04/24 11:35	01/05/24 08:19	2.5
890-5895-2	S2	Solid	01/04/24 11:40	01/05/24 08:19	2.5
890-5895-3	S3	Solid	01/04/24 11:45	01/05/24 08:19	2.5
890-5895-4	S4	Solid	01/04/24 11:50	01/05/24 08:19	2.5
890-5895-5	S5/WEST 2	Solid	01/04/24 11:55	01/05/24 08:19	2.5
890-5895-6	S6	Solid	01/04/24 12:00	01/05/24 08:19	2.5
890-5895-7	S7	Solid	01/04/24 12:05	01/05/24 08:19	2.5
890-5895-8	HN	Solid	01/04/24 11:30	01/05/24 08:19	1
890-5895-9	HW	Solid	01/04/24 12:10	01/05/24 08:19	1
890-5895-10	HE	Solid	01/04/24 12:15	01/05/24 08:19	1

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199
 Little Rock, AR (501) 224-5060

Environment Testing



Work Order No: _____

Page _____ of _____

Project Manager: TIMSAN BRICKER	Bill to: (if different)	Work Order Comments
Company Name: SELECA WATER	Company Name:	Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
Address: 502 E GREENE ST	Address:	State of Project:
City, State ZIP: CARLSBAD NM 88220	City, State ZIP:	Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Phone: 505-700-7551	Email: tbricker@selecawater.com	Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:

Project Name: RED AER	Turn Around	ANALYSIS REQUEST	Preservative Codes
Project Number:	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	<p>890-5895 Chain of Custody</p>	None: NO DI Water: H ₂ O
Project Location: CHAVESCO	Due Date:		Cool: Cool MeOH: Me
Sampler's Name: TIMSAN BRICKER	TAT starts the day received by the lab, if received by 4:30pm		HCL: HC HNO ₃
PO #:			H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp. Blank: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		H ₃ PO ₄ : HP
Samples Received Intact:	Thermometer ID: 11/10/2021		NaHSO ₄ : NABIS
Cooler Custody Seals:	Yes No <input checked="" type="checkbox"/> N/A		Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	Yes No <input checked="" type="checkbox"/> N/A		Zn Acetate+NaOH: Zn
Total Containers:	Corrected Temperature: 3.0		NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Sample Comments
S1 WEST 1	S	1/12/24	11:35 a	2.5'			CHLORIDES	
S2	S		11:40 a					
S3	S		11:45 a					
S4	S		11:50 a					
S5 WEST 2	S		11:55 a					
S6	S		12:00 p					
S7	S		12:05 p					
HW	S		11:30 a	1'				
HW	S		12:10 p	1'				
HE	S		12:15 p	1'				

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature) <i>Timsan Bricker</i>	Relinquished by: (Signature) <i>[Signature]</i>	Date/Time 1/12/24 14:43	Date/Time
3	4		
5	6		

Login Sample Receipt Checklist

Client: Select Energy Services

Job Number: 890-5895-1

Login Number: 5895

List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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- 13
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Login Sample Receipt Checklist

Client: Select Energy Services

Job Number: 890-5895-1

Login Number: 5895

List Source: Eurofins Houston

List Number: 2

List Creation: 01/08/24 04:54 PM

Creator: Jimenez, Nicanor

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Bradley Wells
Hungry Horse LLC
PO BOX 1058
Hobbs, New Mexico 88241

Generated 2/19/2024 5:47:26 PM

JOB DESCRIPTION

Red Deer-Mack Energy

JOB NUMBER

880-39112-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701



Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
2/19/2024 5:47:26 PM

Authorized for release by
Holly Taylor, Project Manager
Holly.Taylor@et.eurofinsus.com
(806)794-1296

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Client: Hungry Horse LLC
Project/Site: Red Deer-Mack Energy

Laboratory Job ID: 880-39112-1

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Definitions/Glossary

Client: Hungry Horse LLC
Project/Site: Red Deer-Mack Energy

Job ID: 880-39112-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Hungry Horse LLC
Project: Red Deer-Mack Energy

Job ID: 880-39112-1

Job ID: 880-39112-1

Eurofins Midland

Job Narrative 880-39112-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 2/8/2024 10:01 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.7°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: HZ South (880-39112-1), HZ South (880-39112-2), SP1 West (880-39112-3), SP4 West (880-39112-4), SP5 West (880-39112-5), SP6 East (880-39112-6) and SP7 East (880-39112-7).

GC VOA

Method 8021B: An incorrect volume of spiking solution was inadvertently added to the laboratory control sample duplicate (LCSD), matrix spike (MS), and matrix spike duplicate (MSD) associated with preparation batch 880-73232 and analytical batch 880-73419. Since only an acceptable LCS is required per the method, the data has been qualified and reported.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-73189 and analytical batch 880-73320 was outside the control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SP6 East (880-39112-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-73320 recovered below the lower control limit for Ethylbenzene, m,p-Xylenes and o-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-73320/64).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-72722 and analytical batch 880-73204 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample Results

Client: Hungry Horse LLC
 Project/Site: Red Deer-Mack Energy

Job ID: 880-39112-1

Client Sample ID: HZ South

Lab Sample ID: 880-39112-1

Date Collected: 02/06/24 09:00

Matrix: Solid

Date Received: 02/08/24 10:01

Sample Depth: Surf

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/15/24 11:17	02/19/24 00:02	1
Toluene	<0.00201	U *- *1	0.00201	mg/Kg		02/15/24 11:17	02/19/24 00:02	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/15/24 11:17	02/19/24 00:02	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		02/15/24 11:17	02/19/24 00:02	1
o-Xylene	<0.00201	U ** *1	0.00201	mg/Kg		02/15/24 11:17	02/19/24 00:02	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/15/24 11:17	02/19/24 00:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	02/15/24 11:17	02/19/24 00:02	1
1,4-Difluorobenzene (Surr)	106		70 - 130	02/15/24 11:17	02/19/24 00:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/19/24 00:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			02/15/24 13:39	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		02/09/24 10:47	02/15/24 13:39	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		02/09/24 10:47	02/15/24 13:39	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		02/09/24 10:47	02/15/24 13:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	118		70 - 130	02/09/24 10:47	02/15/24 13:39	1
o-Terphenyl (Surr)	96		70 - 130	02/09/24 10:47	02/15/24 13:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	148		4.96	mg/Kg			02/08/24 23:45	1

Client Sample ID: HZ South

Lab Sample ID: 880-39112-2

Date Collected: 02/06/24 09:10

Matrix: Solid

Date Received: 02/08/24 10:01

Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/15/24 11:17	02/19/24 00:22	1
Toluene	<0.00202	U *- *1	0.00202	mg/Kg		02/15/24 11:17	02/19/24 00:22	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/15/24 11:17	02/19/24 00:22	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		02/15/24 11:17	02/19/24 00:22	1
o-Xylene	<0.00202	U ** *1	0.00202	mg/Kg		02/15/24 11:17	02/19/24 00:22	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		02/15/24 11:17	02/19/24 00:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	02/15/24 11:17	02/19/24 00:22	1

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Client Sample Results

Client: Hungry Horse LLC
 Project/Site: Red Deer-Mack Energy

Job ID: 880-39112-1

Client Sample ID: HZ South

Lab Sample ID: 880-39112-2

Date Collected: 02/06/24 09:10

Matrix: Solid

Date Received: 02/08/24 10:01

Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	105		70 - 130	02/15/24 11:17	02/19/24 00:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			02/19/24 00:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/15/24 14:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/09/24 10:47	02/15/24 14:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/09/24 10:47	02/15/24 14:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/09/24 10:47	02/15/24 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130	02/09/24 10:47	02/15/24 14:01	1
o-Terphenyl (Surr)	88		70 - 130	02/09/24 10:47	02/15/24 14:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	389		4.95	mg/Kg			02/08/24 23:49	1

Client Sample ID: SP1 West

Lab Sample ID: 880-39112-3

Date Collected: 02/06/24 10:00

Matrix: Solid

Date Received: 02/08/24 10:01

Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/15/24 11:17	02/19/24 00:43	1
Toluene	<0.00199	U * - *1	0.00199	mg/Kg		02/15/24 11:17	02/19/24 00:43	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/15/24 11:17	02/19/24 00:43	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/15/24 11:17	02/19/24 00:43	1
o-Xylene	<0.00199	U * + *1	0.00199	mg/Kg		02/15/24 11:17	02/19/24 00:43	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/15/24 11:17	02/19/24 00:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	02/15/24 11:17	02/19/24 00:43	1
1,4-Difluorobenzene (Surr)	103		70 - 130	02/15/24 11:17	02/19/24 00:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/19/24 00:43	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			02/15/24 14:46	1

Eurofins Midland

Client Sample Results

Client: Hungry Horse LLC
 Project/Site: Red Deer-Mack Energy

Job ID: 880-39112-1

Client Sample ID: SP1 West

Lab Sample ID: 880-39112-3

Date Collected: 02/06/24 10:00

Matrix: Solid

Date Received: 02/08/24 10:01

Sample Depth: 4'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		02/09/24 10:47	02/15/24 14:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		02/09/24 10:47	02/15/24 14:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		02/09/24 10:47	02/15/24 14:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	121		70 - 130			02/09/24 10:47	02/15/24 14:46	1
o-Terphenyl (Surr)	102		70 - 130			02/09/24 10:47	02/15/24 14:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	919		49.5	mg/Kg			02/09/24 00:03	10

Client Sample ID: SP4 West

Lab Sample ID: 880-39112-4

Date Collected: 02/06/24 10:30

Matrix: Solid

Date Received: 02/08/24 10:01

Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/15/24 11:17	02/19/24 01:04	1
Toluene	<0.00198	U *- *1	0.00198	mg/Kg		02/15/24 11:17	02/19/24 01:04	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/15/24 11:17	02/19/24 01:04	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		02/15/24 11:17	02/19/24 01:04	1
o-Xylene	<0.00198	U *+ *1	0.00198	mg/Kg		02/15/24 11:17	02/19/24 01:04	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/15/24 11:17	02/19/24 01:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			02/15/24 11:17	02/19/24 01:04	1
1,4-Difluorobenzene (Surr)	107		70 - 130			02/15/24 11:17	02/19/24 01:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			02/19/24 01:04	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			02/15/24 15:08	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		02/09/24 10:47	02/15/24 15:08	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		02/09/24 10:47	02/15/24 15:08	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		02/09/24 10:47	02/15/24 15:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	129		70 - 130			02/09/24 10:47	02/15/24 15:08	1
o-Terphenyl (Surr)	113		70 - 130			02/09/24 10:47	02/15/24 15:08	1

Eurofins Midland

Client Sample Results

Client: Hungry Horse LLC
 Project/Site: Red Deer-Mack Energy

Job ID: 880-39112-1

Client Sample ID: SP4 West

Lab Sample ID: 880-39112-4

Date Collected: 02/06/24 10:30

Matrix: Solid

Date Received: 02/08/24 10:01

Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7200		99.6	mg/Kg			02/09/24 00:08	20

Client Sample ID: SP5 West

Lab Sample ID: 880-39112-5

Date Collected: 02/06/24 11:00

Matrix: Solid

Date Received: 02/08/24 10:01

Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/15/24 12:26	02/17/24 08:46	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/15/24 12:26	02/17/24 08:46	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/15/24 12:26	02/17/24 08:46	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/15/24 12:26	02/17/24 08:46	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/15/24 12:26	02/17/24 08:46	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/15/24 12:26	02/17/24 08:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130			02/15/24 12:26	02/17/24 08:46	1
1,4-Difluorobenzene (Surr)	85		70 - 130			02/15/24 12:26	02/17/24 08:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/17/24 08:46	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			02/15/24 15:29	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		02/09/24 10:47	02/15/24 15:29	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		02/09/24 10:47	02/15/24 15:29	1
Oll Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		02/09/24 10:47	02/15/24 15:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	121		70 - 130			02/09/24 10:47	02/15/24 15:29	1
o-Terphenyl (Surr)	105		70 - 130			02/09/24 10:47	02/15/24 15:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1050		50.1	mg/Kg			02/09/24 00:13	10

Client Sample Results

Client: Hungry Horse LLC
 Project/Site: Red Deer-Mack Energy

Job ID: 880-39112-1

Client Sample ID: SP6 East

Lab Sample ID: 880-39112-6

Date Collected: 02/06/24 11:30

Matrix: Solid

Date Received: 02/08/24 10:01

Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/15/24 12:26	02/17/24 09:06	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/15/24 12:26	02/17/24 09:06	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/15/24 12:26	02/17/24 09:06	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		02/15/24 12:26	02/17/24 09:06	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/15/24 12:26	02/17/24 09:06	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/15/24 12:26	02/17/24 09:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130	02/15/24 12:26	02/17/24 09:06	1
1,4-Difluorobenzene (Surr)	95		70 - 130	02/15/24 12:26	02/17/24 09:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			02/17/24 09:06	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/15/24 15:52	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/09/24 10:47	02/15/24 15:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/09/24 10:47	02/15/24 15:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/09/24 10:47	02/15/24 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130	02/09/24 10:47	02/15/24 15:52	1
o-Terphenyl (Surr)	86		70 - 130	02/09/24 10:47	02/15/24 15:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2570		50.2	mg/Kg			02/09/24 00:17	10

Client Sample ID: SP7 East

Lab Sample ID: 880-39112-7

Date Collected: 02/06/24 12:00

Matrix: Solid

Date Received: 02/08/24 10:01

Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/15/24 12:26	02/17/24 09:26	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/15/24 12:26	02/17/24 09:26	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/15/24 12:26	02/17/24 09:26	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		02/15/24 12:26	02/17/24 09:26	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/15/24 12:26	02/17/24 09:26	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		02/15/24 12:26	02/17/24 09:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130	02/15/24 12:26	02/17/24 09:26	1

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Client Sample Results

Client: Hungry Horse LLC
 Project/Site: Red Deer-Mack Energy

Job ID: 880-39112-1

Client Sample ID: SP7 East

Lab Sample ID: 880-39112-7

Date Collected: 02/06/24 12:00

Matrix: Solid

Date Received: 02/08/24 10:01

Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	02/15/24 12:26	02/17/24 09:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			02/17/24 09:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/15/24 16:14	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/09/24 10:47	02/15/24 16:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/09/24 10:47	02/15/24 16:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/09/24 10:47	02/15/24 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	114		70 - 130	02/09/24 10:47	02/15/24 16:14	1
o-Terphenyl (Surr)	97		70 - 130	02/09/24 10:47	02/15/24 16:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1080		49.9	mg/Kg			02/09/24 00:22	10

Surrogate Summary

Client: Hungry Horse LLC
 Project/Site: Red Deer-Mack Energy

Job ID: 880-39112-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-39112-1	HZ South	100	106
880-39112-2	HZ South	98	105
880-39112-3	SP1 West	102	103
880-39112-4	SP4 West	101	107
880-39112-5	SP5 West	81	85
880-39112-5 MS	SP5 West	108	101
880-39112-5 MSD	SP5 West	103	115
880-39112-6	SP6 East	69 S1-	95
880-39112-7	SP7 East	70	97
LCS 880-73232/1-A	Lab Control Sample	94	100
LCS 880-73253/1-A	Lab Control Sample	107	122
LCSD 880-73232/2-A	Lab Control Sample Dup	0 S1-	0 S1-
LCSD 880-73253/2-A	Lab Control Sample Dup	108	117
MB 880-73189/5-A	Method Blank	69 S1-	79
MB 880-73232/5-A	Method Blank	78	100
MB 880-73253/5-A	Method Blank	73	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-39112-1	HZ South	118	96
880-39112-2	HZ South	107	88
880-39112-3	SP1 West	121	102
880-39112-4	SP4 West	129	113
880-39112-5	SP5 West	121	105
880-39112-6	SP6 East	101	86
880-39112-7	SP7 East	114	97
LCS 880-72722/2-A	Lab Control Sample	113	120
LCSD 880-72722/3-A	Lab Control Sample Dup	110	111
MB 880-72722/1-A	Method Blank	249 S1+	223 S1+

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

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QC Sample Results

Client: Hungry Horse LLC
 Project/Site: Red Deer-Mack Energy

Job ID: 880-39112-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-73189/5-A
 Matrix: Solid
 Analysis Batch: 73320

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 73189

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		02/14/24 16:41	02/16/24 21:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/14/24 16:41	02/16/24 21:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/14/24 16:41	02/16/24 21:44	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/14/24 16:41	02/16/24 21:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/14/24 16:41	02/16/24 21:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/14/24 16:41	02/16/24 21:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130			02/14/24 16:41	02/16/24 21:44	1
1,4-Difluorobenzene (Surr)	79		70 - 130			02/14/24 16:41	02/16/24 21:44	1

Lab Sample ID: MB 880-73232/5-A
 Matrix: Solid
 Analysis Batch: 73419

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 73232

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		02/15/24 11:17	02/18/24 17:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/15/24 11:17	02/18/24 17:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/15/24 11:17	02/18/24 17:04	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/15/24 11:17	02/18/24 17:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/15/24 11:17	02/18/24 17:04	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/15/24 11:17	02/18/24 17:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130			02/15/24 11:17	02/18/24 17:04	1
1,4-Difluorobenzene (Surr)	100		70 - 130			02/15/24 11:17	02/18/24 17:04	1

Lab Sample ID: LCS 880-73232/1-A
 Matrix: Solid
 Analysis Batch: 73419

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 73232

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	0.100	0.08555		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.08743		mg/Kg		87	70 - 130
m,p-Xylenes	0.200	0.1764		mg/Kg		88	70 - 130
o-Xylene	0.100	0.08884		mg/Kg		89	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	94		70 - 130				
1,4-Difluorobenzene (Surr)	100		70 - 130				

Lab Sample ID: LCSD 880-73232/2-A
 Matrix: Solid
 Analysis Batch: 73419

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 73232

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Benzene	0.100	0.1215		mg/Kg		121	70 - 130	10	35

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QC Sample Results

Client: Hungry Horse LLC
 Project/Site: Red Deer-Mack Energy

Job ID: 880-39112-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-73232/2-A
 Matrix: Solid
 Analysis Batch: 73419

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 73232

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	<0.000456	U *- *1	mg/Kg		0.000	70 - 130	200	35
Ethylbenzene	0.100	0.09445		mg/Kg		94	70 - 130	8	35
m,p-Xylenes	0.200	0.1892		mg/Kg		95	70 - 130	7	35
o-Xylene	0.100	0.1340	*+ *1	mg/Kg		134	70 - 130	41	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	0	S1-	70 - 130
1,4-Difluorobenzene (Surr)	0	S1-	70 - 130

Lab Sample ID: MB 880-73253/5-A
 Matrix: Solid
 Analysis Batch: 73320

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 73253

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/15/24 12:26	02/17/24 08:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/15/24 12:26	02/17/24 08:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/15/24 12:26	02/17/24 08:24	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/15/24 12:26	02/17/24 08:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/15/24 12:26	02/17/24 08:24	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/15/24 12:26	02/17/24 08:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130	02/15/24 12:26	02/17/24 08:24	1
1,4-Difluorobenzene (Surr)	92		70 - 130	02/15/24 12:26	02/17/24 08:24	1

Lab Sample ID: LCS 880-73253/1-A
 Matrix: Solid
 Analysis Batch: 73320

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 73253

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09136		mg/Kg		91	70 - 130
Toluene	0.100	0.08290		mg/Kg		83	70 - 130
Ethylbenzene	0.100	0.09001		mg/Kg		90	70 - 130
m,p-Xylenes	0.200	0.1872		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09263		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	122		70 - 130

Lab Sample ID: LCSD 880-73253/2-A
 Matrix: Solid
 Analysis Batch: 73320

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 73253

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1037		mg/Kg		104	70 - 130	13	35
Toluene	0.100	0.08674		mg/Kg		87	70 - 130	5	35

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QC Sample Results

Client: Hungry Horse LLC
 Project/Site: Red Deer-Mack Energy

Job ID: 880-39112-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-73253/2-A
 Matrix: Solid
 Analysis Batch: 73320

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 73253

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene	0.100	0.1011		mg/Kg		101	70 - 130	12	35
m,p-Xylenes	0.200	0.2073		mg/Kg		104	70 - 130	10	35
o-Xylene	0.100	0.1022		mg/Kg		102	70 - 130	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: 880-39112-5 MS
 Matrix: Solid
 Analysis Batch: 73320

Client Sample ID: SP5 West
 Prep Type: Total/NA
 Prep Batch: 73253

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.100	0.07308		mg/Kg		73	70 - 130
Toluene	<0.00199	U	0.100	0.07527		mg/Kg		75	70 - 130
Ethylbenzene	<0.00199	U	0.100	0.08392		mg/Kg		84	70 - 130
m,p-Xylenes	<0.00398	U	0.200	0.1684		mg/Kg		84	70 - 130
o-Xylene	<0.00199	U	0.100	0.08254		mg/Kg		82	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-39112-5 MSD
 Matrix: Solid
 Analysis Batch: 73320

Client Sample ID: SP5 West
 Prep Type: Total/NA
 Prep Batch: 73253

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.07562		mg/Kg		75	70 - 130	3	35
Toluene	<0.00199	U	0.101	0.07375		mg/Kg		73	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.101	0.08016		mg/Kg		80	70 - 130	5	35
m,p-Xylenes	<0.00398	U	0.201	0.1611		mg/Kg		80	70 - 130	4	35
o-Xylene	<0.00199	U	0.101	0.07908		mg/Kg		79	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-72722/1-A
 Matrix: Solid
 Analysis Batch: 73204

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 72722

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/09/24 10:46	02/15/24 07:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/09/24 10:46	02/15/24 07:31	1

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QC Sample Results

Client: Hungry Horse LLC
 Project/Site: Red Deer-Mack Energy

Job ID: 880-39112-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-72722/1-A
 Matrix: Solid
 Analysis Batch: 73204

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 72722

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/09/24 10:46	02/15/24 07:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	249	S1+	70 - 130	02/09/24 10:46	02/15/24 07:31	1
o-Terphenyl (Surr)	223	S1+	70 - 130	02/09/24 10:46	02/15/24 07:31	1

Lab Sample ID: LCS 880-72722/2-A
 Matrix: Solid
 Analysis Batch: 73204

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 72722

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	941.1		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	966.1		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	113		70 - 130
o-Terphenyl (Surr)	120		70 - 130

Lab Sample ID: LCSD 880-72722/3-A
 Matrix: Solid
 Analysis Batch: 73204

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 72722

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	924.3		mg/Kg		92	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	989.1		mg/Kg		99	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	110		70 - 130
o-Terphenyl (Surr)	111		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-72630/1-A
 Matrix: Solid
 Analysis Batch: 72670

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/08/24 22:12	1

Lab Sample ID: LCS 880-72630/2-A
 Matrix: Solid
 Analysis Batch: 72670

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	247.6		mg/Kg		99	90 - 110

Eurofins Midland

QC Sample Results

Client: Hungry Horse LLC
Project/Site: Red Deer-Mack Energy

Job ID: 880-39112-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-72630/3-A
Matrix: Solid
Analysis Batch: 72670

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	251.6		mg/Kg		101	90 - 110	2	20

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QC Association Summary

Client: Hungry Horse LLC
 Project/Site: Red Deer-Mack Energy

Job ID: 880-39112-1

GC VOA

Prep Batch: 73189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-73189/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 73232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39112-1	HZ South	Total/NA	Solid	5035	
880-39112-2	HZ South	Total/NA	Solid	5035	
880-39112-3	SP1 West	Total/NA	Solid	5035	
880-39112-4	SP4 West	Total/NA	Solid	5035	
MB 880-73232/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-73232/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-73232/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 73253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39112-5	SP5 West	Total/NA	Solid	5035	
880-39112-6	SP6 East	Total/NA	Solid	5035	
880-39112-7	SP7 East	Total/NA	Solid	5035	
MB 880-73253/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-73253/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-73253/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-39112-5 MS	SP5 West	Total/NA	Solid	5035	
880-39112-5 MSD	SP5 West	Total/NA	Solid	5035	

Analysis Batch: 73320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39112-5	SP5 West	Total/NA	Solid	8021B	73253
880-39112-6	SP6 East	Total/NA	Solid	8021B	73253
880-39112-7	SP7 East	Total/NA	Solid	8021B	73253
MB 880-73189/5-A	Method Blank	Total/NA	Solid	8021B	73189
MB 880-73253/5-A	Method Blank	Total/NA	Solid	8021B	73253
LCS 880-73253/1-A	Lab Control Sample	Total/NA	Solid	8021B	73253
LCSD 880-73253/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73253
880-39112-5 MS	SP5 West	Total/NA	Solid	8021B	73253
880-39112-5 MSD	SP5 West	Total/NA	Solid	8021B	73253

Analysis Batch: 73419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39112-1	HZ South	Total/NA	Solid	8021B	73232
880-39112-2	HZ South	Total/NA	Solid	8021B	73232
880-39112-3	SP1 West	Total/NA	Solid	8021B	73232
880-39112-4	SP4 West	Total/NA	Solid	8021B	73232
MB 880-73232/5-A	Method Blank	Total/NA	Solid	8021B	73232
LCS 880-73232/1-A	Lab Control Sample	Total/NA	Solid	8021B	73232
LCSD 880-73232/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73232

Analysis Batch: 73578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39112-1	HZ South	Total/NA	Solid	Total BTEX	
880-39112-2	HZ South	Total/NA	Solid	Total BTEX	
880-39112-3	SP1 West	Total/NA	Solid	Total BTEX	
880-39112-4	SP4 West	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Hungry Horse LLC
 Project/Site: Red Deer-Mack Energy

Job ID: 880-39112-1

GC VOA (Continued)

Analysis Batch: 73578 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39112-5	SP5 West	Total/NA	Solid	Total BTEX	
880-39112-6	SP6 East	Total/NA	Solid	Total BTEX	
880-39112-7	SP7 East	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 72722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39112-1	HZ South	Total/NA	Solid	8015NM Prep	
880-39112-2	HZ South	Total/NA	Solid	8015NM Prep	
880-39112-3	SP1 West	Total/NA	Solid	8015NM Prep	
880-39112-4	SP4 West	Total/NA	Solid	8015NM Prep	
880-39112-5	SP5 West	Total/NA	Solid	8015NM Prep	
880-39112-6	SP6 East	Total/NA	Solid	8015NM Prep	
880-39112-7	SP7 East	Total/NA	Solid	8015NM Prep	
MB 880-72722/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-72722/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-72722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 73204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39112-1	HZ South	Total/NA	Solid	8015B NM	72722
880-39112-2	HZ South	Total/NA	Solid	8015B NM	72722
880-39112-3	SP1 West	Total/NA	Solid	8015B NM	72722
880-39112-4	SP4 West	Total/NA	Solid	8015B NM	72722
880-39112-5	SP5 West	Total/NA	Solid	8015B NM	72722
880-39112-6	SP6 East	Total/NA	Solid	8015B NM	72722
880-39112-7	SP7 East	Total/NA	Solid	8015B NM	72722
MB 880-72722/1-A	Method Blank	Total/NA	Solid	8015B NM	72722
LCS 880-72722/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	72722
LCSD 880-72722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	72722

Analysis Batch: 73287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39112-1	HZ South	Total/NA	Solid	8015 NM	
880-39112-2	HZ South	Total/NA	Solid	8015 NM	
880-39112-3	SP1 West	Total/NA	Solid	8015 NM	
880-39112-4	SP4 West	Total/NA	Solid	8015 NM	
880-39112-5	SP5 West	Total/NA	Solid	8015 NM	
880-39112-6	SP6 East	Total/NA	Solid	8015 NM	
880-39112-7	SP7 East	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 72630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39112-1	HZ South	Soluble	Solid	DI Leach	
880-39112-2	HZ South	Soluble	Solid	DI Leach	
880-39112-3	SP1 West	Soluble	Solid	DI Leach	
880-39112-4	SP4 West	Soluble	Solid	DI Leach	
880-39112-5	SP5 West	Soluble	Solid	DI Leach	
880-39112-6	SP6 East	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Hungry Horse LLC
 Project/Site: Red Deer-Mack Energy

Job ID: 880-39112-1

HPLC/IC (Continued)

Leach Batch: 72630 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39112-7	SP7 East	Soluble	Solid	DI Leach	
MB 880-72630/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-72630/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-72630/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 72670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39112-1	HZ South	Soluble	Solid	300.0	72630
880-39112-2	HZ South	Soluble	Solid	300.0	72630
880-39112-3	SP1 West	Soluble	Solid	300.0	72630
880-39112-4	SP4 West	Soluble	Solid	300.0	72630
880-39112-5	SP5 West	Soluble	Solid	300.0	72630
880-39112-6	SP6 East	Soluble	Solid	300.0	72630
880-39112-7	SP7 East	Soluble	Solid	300.0	72630
MB 880-72630/1-A	Method Blank	Soluble	Solid	300.0	72630
LCS 880-72630/2-A	Lab Control Sample	Soluble	Solid	300.0	72630
LCSD 880-72630/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	72630

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Lab Chronicle

Client: Hungry Horse LLC
 Project/Site: Red Deer-Mack Energy

Job ID: 880-39112-1

Client Sample ID: HZ South

Lab Sample ID: 880-39112-1

Date Collected: 02/06/24 09:00

Matrix: Solid

Date Received: 02/08/24 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	73232	02/15/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73419	02/19/24 00:02	SM	EET MID
Total/NA	Analysis	Total BTEX		1			73578	02/19/24 00:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			73287	02/15/24 13:39	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	72722	02/09/24 10:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73204	02/15/24 13:39	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	72630	02/08/24 11:03	SA	EET MID
Soluble	Analysis	300.0		1			72670	02/08/24 23:45	CH	EET MID

Client Sample ID: HZ South

Lab Sample ID: 880-39112-2

Date Collected: 02/06/24 09:10

Matrix: Solid

Date Received: 02/08/24 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	73232	02/15/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73419	02/19/24 00:22	SM	EET MID
Total/NA	Analysis	Total BTEX		1			73578	02/19/24 00:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			73287	02/15/24 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	72722	02/09/24 10:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73204	02/15/24 14:01	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	72630	02/08/24 11:03	SA	EET MID
Soluble	Analysis	300.0		1			72670	02/08/24 23:49	CH	EET MID

Client Sample ID: SP1 West

Lab Sample ID: 880-39112-3

Date Collected: 02/06/24 10:00

Matrix: Solid

Date Received: 02/08/24 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	73232	02/15/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73419	02/19/24 00:43	SM	EET MID
Total/NA	Analysis	Total BTEX		1			73578	02/19/24 00:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			73287	02/15/24 14:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	72722	02/09/24 10:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73204	02/15/24 14:46	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	72630	02/08/24 11:03	SA	EET MID
Soluble	Analysis	300.0		10			72670	02/09/24 00:03	CH	EET MID

Client Sample ID: SP4 West

Lab Sample ID: 880-39112-4

Date Collected: 02/06/24 10:30

Matrix: Solid

Date Received: 02/08/24 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	73232	02/15/24 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73419	02/19/24 01:04	SM	EET MID
Total/NA	Analysis	Total BTEX		1			73578	02/19/24 01:04	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Hungry Horse LLC
 Project/Site: Red Deer-Mack Energy

Job ID: 880-39112-1

Client Sample ID: SP4 West

Lab Sample ID: 880-39112-4

Date Collected: 02/06/24 10:30

Matrix: Solid

Date Received: 02/08/24 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			73287	02/15/24 15:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	72722	02/09/24 10:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73204	02/15/24 15:08	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	72630	02/08/24 11:03	SA	EET MID
Soluble	Analysis	300.0		20			72670	02/09/24 00:08	CH	EET MID

Client Sample ID: SP5 West

Lab Sample ID: 880-39112-5

Date Collected: 02/06/24 11:00

Matrix: Solid

Date Received: 02/08/24 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	73253	02/15/24 12:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73320	02/17/24 08:46	SM	EET MID
Total/NA	Analysis	Total BTEX		1			73578	02/17/24 08:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			73287	02/15/24 15:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	72722	02/09/24 10:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73204	02/15/24 15:29	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	72630	02/08/24 11:03	SA	EET MID
Soluble	Analysis	300.0		10			72670	02/09/24 00:13	CH	EET MID

Client Sample ID: SP6 East

Lab Sample ID: 880-39112-6

Date Collected: 02/06/24 11:30

Matrix: Solid

Date Received: 02/08/24 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	73253	02/15/24 12:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73320	02/17/24 09:06	SM	EET MID
Total/NA	Analysis	Total BTEX		1			73578	02/17/24 09:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			73287	02/15/24 15:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	72722	02/09/24 10:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73204	02/15/24 15:52	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	72630	02/08/24 11:03	SA	EET MID
Soluble	Analysis	300.0		10			72670	02/09/24 00:17	CH	EET MID

Client Sample ID: SP7 East

Lab Sample ID: 880-39112-7

Date Collected: 02/06/24 12:00

Matrix: Solid

Date Received: 02/08/24 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	73253	02/15/24 12:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73320	02/17/24 09:26	SM	EET MID
Total/NA	Analysis	Total BTEX		1			73578	02/17/24 09:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			73287	02/15/24 16:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	72722	02/09/24 10:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73204	02/15/24 16:14	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Hungry Horse LLC
Project/Site: Red Deer-Mack Energy

Job ID: 880-39112-1

Client Sample ID: SP7 East

Lab Sample ID: 880-39112-7

Date Collected: 02/06/24 12:00

Matrix: Solid

Date Received: 02/08/24 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	72630	02/08/24 11:03	SA	EET MID
Soluble	Analysis	300.0		10			72670	02/09/24 00:22	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Hungry Horse LLC
Project/Site: Red Deer-Mack Energy

Job ID: 880-39112-1

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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Method Summary

Client: Hungry Horse LLC
Project/Site: Red Deer-Mack Energy

Job ID: 880-39112-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440



Sample Summary

Client: Hungry Horse LLC
Project/Site: Red Deer-Mack Energy

Job ID: 880-39112-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-39112-1	HZ South	Solid	02/06/24 09:00	02/08/24 10:01	Surf
880-39112-2	HZ South	Solid	02/06/24 09:10	02/08/24 10:01	1'
880-39112-3	SP1 West	Solid	02/06/24 10:00	02/08/24 10:01	4'
880-39112-4	SP4 West	Solid	02/06/24 10:30	02/08/24 10:01	4'
880-39112-5	SP5 West	Solid	02/06/24 11:00	02/08/24 10:01	4'
880-39112-6	SP6 East	Solid	02/06/24 11:30	02/08/24 10:01	4'
880-39112-7	SP7 East	Solid	02/06/24 12:00	02/08/24 10:01	4'

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Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902 0300
 Midland TX (432) 704-5440 San Antonio TX (210) 509 3334
 EL Paso TX (915) 585 3443 Lubbock TX (806) 794-1296
 Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199



880-39112 Chain of Custody

Project Manager	Bradley Wells	Bill to (if different)	Timsan Bricker
Company Name	Hungry Horse LLC	Company Name	Select Energy
Address	4024 Plains Hwy	Address	1502 E Greene St
City/State/ZIP	Lovington, NM 88260	City/State/ZIP	Carlsbad
Phone	575 393-3386	Email	tbricker@selectwater.com and pm@hungry-horse.com

Work Order Comments

Program US/PST PRP Brownfields RRC Superfund

State of Project New Mexico

Reporting Level II Level III PST/UST RRP Level IV

Deliverables EDD ADaPT Other

Project Name	Red Deer - Mack Energy	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush
Project Number		Due Date	
Project Location	Jerry Heidelberg	TAT starts the day received by the lab if received by 4:30pm	
Sampler's Name	Jerry Heidelberg	Temp. Blank	Yes (No) Wet Ice (Yes) No
PO #		Thermometer ID	118
SAMPLE RECEIPT		Yes No	Correction Factor
Samples Received Intact	(Yes) No	Yes No	N/A
Cooler Custody Seals	Yes No	Yes No	N/A
Sample Custody Seals	Yes No	Temperature Reading	1.8
Total Containers		Corrected Temperature	1.7

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	Parameters	Pres Code	ANALYSIS REQUEST	Preservative Codes	Sample Comments
HZ South	S	2/6/24	9:00	Surf	Grab	CHLORIDE			None NO	DI Water H ₂ O
HZ South	S	2/6/24	9:10	1'	Grab				Cool Cool	MeOH Me
SP1 West	S	2/6/24	10:00	4'	Grab				HCL HC	HNO ₃ HN
SP4 West	S	2/6/24	10:30	4'	Grab				H ₂ SO ₄ H ₂	NaOH Na
SP5 West	S	2/6/24	11:00	4'	Grab				H ₃ PO ₄ HP	
SP6 East	S	2/6/24	11:30	4'	Grab				NaHSO ₄ NABIS	
SP7 East	S	2/6/24	12:00	4'	Grab				Na ₂ S ₂ O ₃ NaSO ₃	
									Zn Acetate+NaOH Zn	
									NaOH+Ascorbic Acid SACP	

Total 200 7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$65.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	02-08-24			2
					4
					6



Login Sample Receipt Checklist

Client: Hungry Horse LLC

Job Number: 880-39112-1

Login Number: 39112

List Source: Eurofins Midland

List Number: 1

Creator: Wheeler, Jazmine

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

- 1
- 2
- 3
- 4
- 5
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- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Report to:
Bradley Wells



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Select Water Solutions, LLC

Project Name: Red Deer - Mack Energy

Work Order: E406166

Job Number: 24019-0001

Received: 6/19/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/21/24

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 6/21/24

Bradley Wells
PO Box 1715
Gainesville, TX 76241



Project Name: Red Deer - Mack Energy
Workorder: E406166
Date Received: 6/19/2024 7:00:32AM

Bradley Wells,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/19/2024 7:00:32AM, under the Project Name: Red Deer - Mack Energy.

The analytical test results summarized in this report with the Project Name: Red Deer - Mack Energy apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
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Cell: 775-287-1762
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Sample Summary

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 06/21/24 14:24
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1 West 6'	E406166-01A	Soil	06/17/24	06/19/24	Glass Jar, 2 oz.
SP4 West 6'	E406166-02A	Soil	06/17/24	06/19/24	Glass Jar, 2 oz.
SP5 West 6'	E406166-03A	Soil	06/17/24	06/19/24	Glass Jar, 2 oz.
SP6 East 6'	E406166-04A	Soil	06/17/24	06/19/24	Glass Jar, 2 oz.
SP7 East 6'	E406166-05A	Soil	06/17/24	06/19/24	Glass Jar, 2 oz.



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 6/21/2024 2:24:38PM
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SP1 West 6'
E406166-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: IY		Batch: 2425047
Benzene	ND	0.0250	1	06/18/24	06/20/24	
Ethylbenzene	ND	0.0250	1	06/18/24	06/20/24	
Toluene	ND	0.0250	1	06/18/24	06/20/24	
o-Xylene	ND	0.0250	1	06/18/24	06/20/24	
p,m-Xylene	ND	0.0500	1	06/18/24	06/20/24	
Total Xylenes	ND	0.0250	1	06/18/24	06/20/24	
<i>Surrogate: Bromofluorobenzene</i>		98.7 %	70-130	06/18/24	06/20/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.3 %	70-130	06/18/24	06/20/24	
<i>Surrogate: Toluene-d8</i>		109 %	70-130	06/18/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: IY		Batch: 2425047
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/24	06/20/24	
<i>Surrogate: Bromofluorobenzene</i>		98.7 %	70-130	06/18/24	06/20/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.3 %	70-130	06/18/24	06/20/24	
<i>Surrogate: Toluene-d8</i>		109 %	70-130	06/18/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: NV		Batch: 2425051
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/24	06/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/24	06/19/24	
<i>Surrogate: n-Nonane</i>		81.0 %	50-200	06/19/24	06/19/24	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: WF		Batch: 2425053
Chloride	275	200	10	06/19/24	06/19/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 6/21/2024 2:24:38PM
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SP4 West 6'
E406166-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425047
Benzene	ND	0.0250	1	06/18/24	06/20/24	
Ethylbenzene	ND	0.0250	1	06/18/24	06/20/24	
Toluene	ND	0.0250	1	06/18/24	06/20/24	
o-Xylene	ND	0.0250	1	06/18/24	06/20/24	
p,m-Xylene	ND	0.0500	1	06/18/24	06/20/24	
Total Xylenes	ND	0.0250	1	06/18/24	06/20/24	
<i>Surrogate: Bromofluorobenzene</i>		86.1 %	70-130	06/18/24	06/20/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.4 %	70-130	06/18/24	06/20/24	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	06/18/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425047
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/24	06/20/24	
<i>Surrogate: Bromofluorobenzene</i>		86.1 %	70-130	06/18/24	06/20/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.4 %	70-130	06/18/24	06/20/24	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	06/18/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2425051
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/24	06/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/24	06/19/24	
<i>Surrogate: n-Nonane</i>		83.1 %	50-200	06/19/24	06/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2425053
Chloride	202	200	10	06/19/24	06/19/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 6/21/2024 2:24:38PM
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SP5 West 6'
E406166-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: IY		Batch: 2425047
Benzene	ND	0.0250	1	06/18/24	06/20/24	
Ethylbenzene	ND	0.0250	1	06/18/24	06/20/24	
Toluene	ND	0.0250	1	06/18/24	06/20/24	
o-Xylene	ND	0.0250	1	06/18/24	06/20/24	
p,m-Xylene	ND	0.0500	1	06/18/24	06/20/24	
Total Xylenes	ND	0.0250	1	06/18/24	06/20/24	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	06/18/24	06/20/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	06/18/24	06/20/24	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	06/18/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: IY		Batch: 2425047
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/24	06/20/24	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	06/18/24	06/20/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	06/18/24	06/20/24	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	06/18/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: NV		Batch: 2425051
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/24	06/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/24	06/19/24	
<i>Surrogate: n-Nonane</i>		85.8 %	50-200	06/19/24	06/19/24	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: WF		Batch: 2425053
Chloride	ND	200	10	06/19/24	06/19/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 6/21/2024 2:24:38PM
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SP6 East 6'
E406166-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2425047
Benzene	ND	0.0250	1	06/18/24	06/20/24	
Ethylbenzene	ND	0.0250	1	06/18/24	06/20/24	
Toluene	ND	0.0250	1	06/18/24	06/20/24	
o-Xylene	ND	0.0250	1	06/18/24	06/20/24	
p,m-Xylene	ND	0.0500	1	06/18/24	06/20/24	
Total Xylenes	ND	0.0250	1	06/18/24	06/20/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	06/18/24	06/20/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.3 %	70-130	06/18/24	06/20/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	06/18/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2425047
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/24	06/20/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	06/18/24	06/20/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.3 %	70-130	06/18/24	06/20/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	06/18/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2425051
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/24	06/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/24	06/19/24	
<i>Surrogate: n-Nonane</i>		81.1 %	50-200	06/19/24	06/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2425053
Chloride	453	200	10	06/19/24	06/19/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 6/21/2024 2:24:38PM
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SP7 East 6'
E406166-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: IY		Batch: 2425047
Benzene	ND	0.0250	1	06/18/24	06/20/24	
Ethylbenzene	ND	0.0250	1	06/18/24	06/20/24	
Toluene	ND	0.0250	1	06/18/24	06/20/24	
o-Xylene	ND	0.0250	1	06/18/24	06/20/24	
p,m-Xylene	ND	0.0500	1	06/18/24	06/20/24	
Total Xylenes	ND	0.0250	1	06/18/24	06/20/24	
<i>Surrogate: Bromofluorobenzene</i>		96.6 %	70-130	06/18/24	06/20/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.5 %	70-130	06/18/24	06/20/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	06/18/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: IY		Batch: 2425047
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/24	06/20/24	
<i>Surrogate: Bromofluorobenzene</i>		96.6 %	70-130	06/18/24	06/20/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.5 %	70-130	06/18/24	06/20/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	06/18/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: NV		Batch: 2425051
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/24	06/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/24	06/19/24	
<i>Surrogate: n-Nonane</i>		78.8 %	50-200	06/19/24	06/19/24	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: WF		Batch: 2425053
Chloride	277	200	10	06/19/24	06/19/24	



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 6/21/2024 2:24:38PM
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Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425047-BLK1)

Prepared: 06/19/24 Analyzed: 06/20/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.562		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.444		0.500		88.7	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

LCS (2425047-BS1)

Prepared: 06/19/24 Analyzed: 06/20/24

Benzene	2.04	0.0250	2.50		81.7	70-130			
Ethylbenzene	2.20	0.0250	2.50		88.0	70-130			
Toluene	2.18	0.0250	2.50		87.0	70-130			
o-Xylene	2.29	0.0250	2.50		91.7	70-130			
p,m-Xylene	4.56	0.0500	5.00		91.2	70-130			
Total Xylenes	6.85	0.0250	7.50		91.4	70-130			
Surrogate: Bromofluorobenzene	0.567		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

Matrix Spike (2425047-MS1)

Source: E406163-07

Prepared: 06/19/24 Analyzed: 06/20/24

Benzene	2.24	0.0250	2.50	ND	89.7	48-131			
Ethylbenzene	2.40	0.0250	2.50	ND	95.9	45-135			
Toluene	2.37	0.0250	2.50	ND	94.8	48-130			
o-Xylene	2.55	0.0250	2.50	ND	102	43-135			
p,m-Xylene	5.08	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.63	0.0250	7.50	ND	102	43-135			
Surrogate: Bromofluorobenzene	0.573		0.500		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			

Matrix Spike Dup (2425047-MSD1)

Source: E406163-07

Prepared: 06/19/24 Analyzed: 06/20/24

Benzene	2.30	0.0250	2.50	ND	91.9	48-131	2.42	23	
Ethylbenzene	2.45	0.0250	2.50	ND	98.0	45-135	2.25	27	
Toluene	2.41	0.0250	2.50	ND	96.5	48-130	1.80	24	
o-Xylene	2.58	0.0250	2.50	ND	103	43-135	1.40	27	
p,m-Xylene	5.17	0.0500	5.00	ND	103	43-135	1.62	27	
Total Xylenes	7.75	0.0250	7.50	ND	103	43-135	1.55	27	
Surrogate: Bromofluorobenzene	0.575		0.500		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 6/21/2024 2:24:38PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425047-BLK1)

Prepared: 06/19/24 Analyzed: 06/20/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.562		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.444		0.500		88.7	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

LCS (2425047-BS2)

Prepared: 06/19/24 Analyzed: 06/20/24

Gasoline Range Organics (C6-C10)	56.4	20.0	50.0		113	70-130			
Surrogate: Bromofluorobenzene	0.571		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.1	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			

Matrix Spike (2425047-MS2)

Source: E406163-07

Prepared: 06/19/24 Analyzed: 06/20/24

Gasoline Range Organics (C6-C10)	57.6	20.0	50.0	ND	115	70-130			
Surrogate: Bromofluorobenzene	0.579		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.2	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

Matrix Spike Dup (2425047-MSD2)

Source: E406163-07

Prepared: 06/19/24 Analyzed: 06/20/24

Gasoline Range Organics (C6-C10)	56.1	20.0	50.0	ND	112	70-130	2.65	20	
Surrogate: Bromofluorobenzene	0.570		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		91.9	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 6/21/2024 2:24:38PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425051-BLK1)

Prepared: 06/19/24 Analyzed: 06/19/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.1		50.0		90.1	50-200			

LCS (2425051-BS1)

Prepared: 06/19/24 Analyzed: 06/19/24

Diesel Range Organics (C10-C28)	282	25.0	250		113	38-132			
Surrogate: n-Nonane	50.9		50.0		102	50-200			

Matrix Spike (2425051-MS1)

Source: E406162-06

Prepared: 06/19/24 Analyzed: 06/19/24

Diesel Range Organics (C10-C28)	276	25.0	250	ND	111	38-132			
Surrogate: n-Nonane	45.8		50.0		91.6	50-200			

Matrix Spike Dup (2425051-MSD1)

Source: E406162-06

Prepared: 06/19/24 Analyzed: 06/19/24

Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	38-132	1.89	20	
Surrogate: n-Nonane	50.2		50.0		100	50-200			



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 6/21/2024 2:24:38PM
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Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425053-BLK1)

Prepared: 06/19/24 Analyzed: 06/19/24

Chloride	ND	20.0							
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LCS (2425053-BS1)

Prepared: 06/19/24 Analyzed: 06/19/24

Chloride	248	20.0	250		99.1	90-110			
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Matrix Spike (2425053-MS1)

Source: E406163-06

Prepared: 06/19/24 Analyzed: 06/19/24

Chloride	825	20.0	250	593	92.9	80-120			
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Matrix Spike Dup (2425053-MSD1)

Source: E406163-06

Prepared: 06/19/24 Analyzed: 06/19/24

Chloride	800	20.0	250	593	82.7	80-120	3.15	20	
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QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Select Water Solutions, LLC	Project Name:	Red Deer - Mack Energy	
PO Box 1715	Project Number:	24019-0001	Reported:
Gainesville TX, 76241	Project Manager:	Bradley Wells	06/21/24 14:24

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client: Select Energy		Bill To		Lab Use Only				TAT			EPA Program												
Project: Red Deer - Mack Energy		Attention: Timsan Bricker		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA										
Project Manager: Bradley Wells		Address: 1502 E Greene St.		E406166		24019-0001					X												
Address: 4024 Plains Hwy		City, State, Zip: Carlsbad		Analysis and Method																			
City, State, Zip: Lovington, NM 88260, NM, 8826		Phone: 515-200-7551		RCRA																			
Phone: 575 393-3386		Email: tbricker@selectwater.com		State																			
Email: pm@hungry-horse.com		Report due by:		<table border="1"> <tr> <td>NM</td> <td>CO</td> <td>UT</td> <td>AZ</td> <td>TX</td> </tr> <tr> <td>X</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										NM	CO	UT	AZ	TX	X				
NM	CO	UT	AZ	TX																			
X																							

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	17-Jun	Soil	1	SP1 West	6'	1							X		
	17-Jun	Soil	1	SP4 West	6'	2							X		
	17-Jun	Soil	1	SP5 West	6'	3							X		
	17-Jun	Soil	1	SP6 East	6'	4							X		
	17-Jun	Soil	1	SP7 East	6'	5							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<i>[Signature]</i>	6/18/24	1223	Michelle Gonzales	6-18-24	1223	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>[Signature]</i>	6-19-24	0630	Kaylah R Hall	6-19-24	0700	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Envirotech Analytical Laboratory

Printed: 6/19/2024 12:24:35PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Select Water Solutions, LLC	Date Received: 06/19/24 07:00	Work Order ID: E406166
Phone: (575) 393-3386	Date Logged In: 06/18/24 16:00	Logged In By: Jessica Liesse
Email: pm@hungry-horse.com	Due Date: 06/25/24 17:00 (4 day TAT)	

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
- 2. Does the number of samples per sampling site location match the COC? Yes
- 3. Were samples dropped off by client or carrier? Yes
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
- 5. Were all samples received within holding time? Yes

Carrier: courier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Comments/Resolution

Sampled time is not listed on the coc by client.

Sample Turn Around Time (TAT)

- 6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

- 7. Was a sample cooler received? Yes
- 8. If yes, was cooler received in good condition? Yes
- 9. Was the sample(s) received intact, i.e., not broken? Yes
- 10. Were custody/security seals present? No
- 11. If yes, were custody/security seals intact? NA
- 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

- 14. Are aqueous VOC samples present? No
- 15. Are VOC samples collected in VOA Vials? NA
- 16. Is the head space less than 6-8 mm (pea sized or less)? NA
- 17. Was a trip blank (TB) included for VOC analyses? NA
- 18. Are non-VOC samples collected in the correct containers? Yes
- 19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

- 20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

- 21. Does the COC or field labels indicate the samples were preserved? No
- 22. Are sample(s) correctly preserved? NA
- 24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

- 26. Does the sample have more than one phase, i.e., multiphase? No
- 27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

- 28. Are samples required to get sent to a subcontract laboratory? No
- 29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Bradley Wells



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Select Water Solutions, LLC

Project Name: Red Deer - Mack Energy

Work Order: E410242

Job Number: 24019-0001

Received: 10/22/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/24/24

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 10/24/24



Bradley Wells
PO Box 1715
Gainesville, TX 76241

Project Name: Red Deer - Mack Energy
Workorder: E410242
Date Received: 10/22/2024 7:45:00AM

Bradley Wells,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/22/2024 7:45:00AM, under the Project Name: Red Deer - Mack Energy.

The analytical test results summarized in this report with the Project Name: Red Deer - Mack Energy apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Sample Summary

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/24 14:46
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW1 0-4	E410242-01A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.
SW2 0-4	E410242-02A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.
SW3 4-6	E410242-03A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.
SW4 0-6	E410242-04A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.
SW5 0-6	E410242-05A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.
SW6 0-6	E410242-06A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.
SW7 0-6	E410242-07A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.
SW8 0-6	E410242-08A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.
SW9 0-6	E410242-09A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.
SW10 0-6	E410242-10A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.
SW11 0-6	E410242-11A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.
SW12 0-6	E410242-12A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.
SW13 0-6	E410242-13A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.
SW14 0-6	E410242-14A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.
SW15 0-6	E410242-15A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.

Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:21PM
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SW1 0-4

E410242-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2443033	
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		91.3 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2443033	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.5 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2443052	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/22/24	
<i>Surrogate: n-Nonane</i>						
		104 %	50-200	10/22/24	10/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2443055	
Chloride	77.7	20.0	1	10/22/24	10/22/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:21PM
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SW2 0-4
E410242-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2443033
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.0 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2443033
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.0 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2443052
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>		104 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2443055
Chloride	81.7	20.0	1	10/22/24	10/22/24	

Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:21PM
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SW3 4-6

E410242-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2443033
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.1 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2443033
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.4 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2443052
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>		101 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2443055
Chloride	87.9	20.0	1	10/22/24	10/22/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:21PM
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SW4 0-6

E410242-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2443033
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.3 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2443033
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.4 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2443052
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>		99.8 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2443055
Chloride	103	20.0	1	10/22/24	10/22/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:21PM
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SW5 0-6
E410242-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2443033
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.6 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2443033
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.7 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2443052
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>		101 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2443055
Chloride	52.1	20.0	1	10/22/24	10/22/24	

Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:21PM
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SW6 0-6

E410242-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2443033
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.2 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2443033
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.7 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2443052
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>		101 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2443055
Chloride	115	20.0	1	10/22/24	10/22/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:21PM
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SW7 0-6

E410242-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2443033
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.0 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2443033
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.9 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2443052
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2443055
Chloride	69.1	20.0	1	10/22/24	10/22/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:21PM
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SW8 0-6

E410242-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2443033
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.1 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2443033
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.0 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2443052
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>		104 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2443055
Chloride	96.5	20.0	1	10/22/24	10/22/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:21PM
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SW9 0-6

E410242-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2443033
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.2 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2443033
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.2 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2443052
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2443055
Chloride	68.1	20.0	1	10/22/24	10/22/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:21PM
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SW10 0-6

E410242-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2443033
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.9 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2443033
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.1 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2443052
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2443055
Chloride	57.4	20.0	1	10/22/24	10/23/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:21PM
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SW11 0-6

E410242-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2443033
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.7 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2443033
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.5 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2443052
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2443055
Chloride	50.0	20.0	1	10/22/24	10/23/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:21PM
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SW12 0-6

E410242-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2443033
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.6 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2443033
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.2 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2443052
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>		101 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2443055
Chloride	52.3	20.0	1	10/22/24	10/23/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:21PM
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SW13 0-6

E410242-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2443033
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		90.4 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2443033
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.1 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443052
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2443055
Chloride	58.8	20.0	1	10/22/24	10/23/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:21PM
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SW14 0-6

E410242-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2443033
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.4 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2443033
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.9 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2443052
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>		100 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2443055
Chloride	46.7	20.0	1	10/22/24	10/23/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:21PM
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SW15 0-6

E410242-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2443033
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.5 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2443033
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.5 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2443052
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>		101 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2443055
Chloride	51.1	20.0	1	10/22/24	10/23/24	



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:21PM
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Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2443033-BLK1)

Prepared: 10/22/24 Analyzed: 10/23/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.25		8.00		90.7	70-130			

LCS (2443033-BS1)

Prepared: 10/22/24 Analyzed: 10/23/24

Benzene	4.87	0.0250	5.00		97.4	70-130			
Ethylbenzene	4.72	0.0250	5.00		94.3	70-130			
Toluene	4.81	0.0250	5.00		96.2	70-130			
o-Xylene	4.72	0.0250	5.00		94.4	70-130			
p,m-Xylene	9.58	0.0500	10.0		95.8	70-130			
Total Xylenes	14.3	0.0250	15.0		95.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.23		8.00		90.4	70-130			

Matrix Spike (2443033-MS1)

Source: E410242-07

Prepared: 10/22/24 Analyzed: 10/23/24

Benzene	5.01	0.0250	5.00	ND	100	54-133			
Ethylbenzene	4.83	0.0250	5.00	ND	96.7	61-133			
Toluene	4.94	0.0250	5.00	ND	98.9	61-130			
o-Xylene	4.83	0.0250	5.00	ND	96.6	63-131			
p,m-Xylene	9.80	0.0500	10.0	ND	98.0	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.37		8.00		92.1	70-130			

Matrix Spike Dup (2443033-MSD1)

Source: E410242-07

Prepared: 10/22/24 Analyzed: 10/23/24

Benzene	4.94	0.0250	5.00	ND	98.7	54-133	1.49	20	
Ethylbenzene	4.76	0.0250	5.00	ND	95.1	61-133	1.58	20	
Toluene	4.87	0.0250	5.00	ND	97.3	61-130	1.55	20	
o-Xylene	4.77	0.0250	5.00	ND	95.4	63-131	1.27	20	
p,m-Xylene	9.64	0.0500	10.0	ND	96.4	63-131	1.60	20	
Total Xylenes	14.4	0.0250	15.0	ND	96.1	63-131	1.49	20	
Surrogate: 4-Bromochlorobenzene-PID	7.40		8.00		92.5	70-130			



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:21PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2443033-BLK1)

Prepared: 10/22/24 Analyzed: 10/23/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			

LCS (2443033-BS2)

Prepared: 10/22/24 Analyzed: 10/23/24

Gasoline Range Organics (C6-C10)	37.2	20.0	50.0		74.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		8.00		94.1	70-130			

Matrix Spike (2443033-MS2)

Source: E410242-07

Prepared: 10/22/24 Analyzed: 10/23/24

Gasoline Range Organics (C6-C10)	40.7	20.0	50.0	ND	81.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130			

Matrix Spike Dup (2443033-MSD2)

Source: E410242-07

Prepared: 10/22/24 Analyzed: 10/23/24

Gasoline Range Organics (C6-C10)	39.3	20.0	50.0	ND	78.6	70-130	3.38	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.2	70-130			



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:21PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2443052-BLK1)

Prepared: 10/22/24 Analyzed: 10/22/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.5		50.0		109	50-200			

LCS (2443052-BS1)

Prepared: 10/22/24 Analyzed: 10/22/24

Diesel Range Organics (C10-C28)	274	25.0	250		109	38-132			
Surrogate: n-Nonane	50.3		50.0		101	50-200			

LCS Dup (2443052-BSD1)

Prepared: 10/22/24 Analyzed: 10/22/24

Diesel Range Organics (C10-C28)	274	25.0	250		110	38-132	0.223	20	
Surrogate: n-Nonane	50.0		50.0		100	50-200			



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:21PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2443055-BLK1)

Prepared: 10/22/24 Analyzed: 10/22/24

Chloride ND 20.0

LCS (2443055-BS1)

Prepared: 10/22/24 Analyzed: 10/22/24

Chloride 254 20.0 250 102 90-110

Matrix Spike (2443055-MS1)

Source: E410242-02

Prepared: 10/22/24 Analyzed: 10/22/24

Chloride 345 20.0 250 81.7 105 80-120

Matrix Spike Dup (2443055-MSD1)

Source: E410242-02

Prepared: 10/22/24 Analyzed: 10/22/24

Chloride 346 20.0 250 81.7 106 80-120 0.295 20

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Select Water Solutions, LLC	Project Name:	Red Deer - Mack Energy	
PO Box 1715	Project Number:	24019-0001	Reported:
Gainesville TX, 76241	Project Manager:	Bradley Wells	10/24/24 14:46

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Released To Imaging: 3/30/2025 9:02:18 AM

Received by OGD - 5/12/2025 3:30:31 PM

Client: Select Energy		Bill To		Lab Use Only				TAT			EPA Program		
Project: Red Deer - Mack Energy		Attention: Timsan Bricker		Lab WO# 1410242		Job Number 2499.0001		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Bradley Wells		Address: 1502 E Greene St.		City, State, Zip: Carlsbad		Analysis and Method					X		
Address: 4024 Plains Hwy		Phone: 515-200-7551		Email: tbricker@selectwater.com								RCRA	
City, State, Zip: Lovington, NM 88260, NM, 88260												State	
Phone: 575 393-3386												NM CO UT AZ TX	
Email: pm@hungry-horse.com												X	
Report due by:												Remarks	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	BDOC TX	Remarks
821	10/18/24	Soil	1	SW1	0-4	1							X		
822	10/18/24	Soil	1	SW2	0-4	2							X		
823	10/18/24	Soil	1	SW3	4-6	3							X		
824	10/18/24	Soil	1	SW4	0-6	4							X		
825	10/18/24	Soil	1	SW5	0-6	5							X		
826	10/18/24	Soil	1	SW6	0-6	6							X		
827	10/18/24	Soil	1	SW7	0-6	7							X		
828	10/18/24	Soil	1	SW8	0-6	8							X		
829	10/18/24	Soil	1	SW9	0-6	9							X		
830	10/18/24	Soil	1	SW10	0-6	10							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Relinquished by: (Signature) <i>[Signature]</i>				Date: 10/21/24		Time: 3:31 pm		Received by: (Signature) <i>[Signature]</i>				Date: 10-21-24		Time: 1546		Lab Use Only	
Relinquished by: (Signature) <i>[Signature]</i>				Date: 10-21-24		Time: 1830		Received by: (Signature) <i>[Signature]</i>				Date: 10-21-24		Time: 1930		Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Relinquished by: (Signature) <i>[Signature]</i>				Date: 10-21-24		Time: 2400		Received by: (Signature) <i>[Signature]</i>				Date: 10-22-24		Time: 7:45		AVG Temp °C: 4	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



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Client: Select Energy		Bill To		Lab Use Only				TAT			EPA Program		
Project: Red Deer - Mack Energy		Attention: Timsan Bricker		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Bradley Wells		Address: 1502 E Greene St.		E410242		24019.0001					X		
Address: 4024 Plains Hwy		City, State, Zip: Carlsbad		Analysis and Method									RCRA
City, State, Zip: Lovington, NM 88260, NM, 88260		Phone: 515-200-7551		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	State	
Phone: 575 393-3386		Email: tbricker@selectwater.com										NM	CO
Email: pm@hungry-horse.com		Report due by:											

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
831	10/18/24	Soil	1	SW11	0-6	11							X		
832	10/18/24	Soil	1	SW12	0-6	12							X		
833	10/18/24	Soil	1	SW13	0-6	13							X		
834	10/18/24	Soil	1	SW14	0-6	14							X		
835	10/18/24	Soil	1	SW15	0-6	15							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.

Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only	
<i>[Signature]</i>		10/21/24	3:31 pm	<i>[Signature]</i>		10-21-24	1546	Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1	
<i>[Signature]</i>		10-21-24	1830	<i>[Signature]</i>		10-21-24	1830	T2	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T3	
<i>[Signature]</i>		10-21-24	2400	<i>[Signature]</i>		10-22-24	7:45	AVG Temp °C <u>4</u>	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Envirotech Analytical Laboratory

Printed: 10/22/2024 11:20:24AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Select Water Solutions, LLC	Date Received:	10/22/24 07:45	Work Order ID:	E410242
Phone:	(575) 393-3386	Date Logged In:	10/21/24 17:58	Logged In By:	Noe Soto
Email:	pm@hungry-horse.com	Due Date:	10/28/24 17:00 (4 day TAT)		

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
- 2. Does the number of samples per sampling site location match the COC? Yes
- 3. Were samples dropped off by client or carrier? Yes
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
- 5. Were all samples received within holding time? Yes

Carrier: courier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Comments/Resolution

Sampled by not provided on COC per client.

Sample Turn Around Time (TAT)

- 6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

- 7. Was a sample cooler received? Yes
- 8. If yes, was cooler received in good condition? Yes
- 9. Was the sample(s) received intact, i.e., not broken? Yes
- 10. Were custody/security seals present? No
- 11. If yes, were custody/security seals intact? NA
- 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

- 14. Are aqueous VOC samples present? No
- 15. Are VOC samples collected in VOA Vials? NA
- 16. Is the head space less than 6-8 mm (pea sized or less)? NA
- 17. Was a trip blank (TB) included for VOC analyses? NA
- 18. Are non-VOC samples collected in the correct containers? Yes
- 19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

- 20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? No
 - Collectors name? No

Sample Preservation

- 21. Does the COC or field labels indicate the samples were preserved? No
- 22. Are sample(s) correctly preserved? NA
- 24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

- 26. Does the sample have more than one phase, i.e., multiphase? No
- 27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

- 28. Are samples required to get sent to a subcontract laboratory? No
- 29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Bradley Wells



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Select Water Solutions, LLC

Project Name: Red Deer - Mack Energy

Work Order: E410243

Job Number: 24019-0001

Received: 10/22/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/24/24

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 10/24/24



Bradley Wells
PO Box 1715
Gainesville, TX 76241

Project Name: Red Deer - Mack Energy
Workorder: E410243
Date Received: 10/22/2024 7:45:00AM

Bradley Wells,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/22/2024 7:45:00AM, under the Project Name: Red Deer - Mack Energy.

The analytical test results summarized in this report with the Project Name: Red Deer - Mack Energy apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/24 14:46
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FL1 4'	E410243-01A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.
FL2 4'	E410243-02A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.
FL3 6'	E410243-03A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.
FL4 6'	E410243-04A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.
FL5 6'	E410243-05A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.
FL6 6'	E410243-06A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.
FL7 6'	E410243-07A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.
FL8 6'	E410243-08A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.
FL9 6'	E410243-09A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.
FL10 6'	E410243-10A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.
FL11 6'	E410243-11A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.
FL12 6'	E410243-12A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.
FL13 6'	E410243-13A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.
FL14 6'	E410243-14A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.
FL15 6'	E410243-15A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.
FL16 6'	E410243-16A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.

Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:11PM
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FL1 4'

E410243-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2443034	
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2443034	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.1 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2443053	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>		105 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2443062	
Chloride	56.4	20.0	1	10/22/24	10/22/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:11PM
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FL2 4'

E410243-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.5 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2443053
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>		106 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2443062
Chloride	55.8	20.0	1	10/22/24	10/22/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:11PM
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FL3 6'

E410243-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.1 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2443053
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>		104 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2443062
Chloride	45.3	20.0	1	10/22/24	10/23/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:11PM
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FL4 6'

E410243-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.0 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2443053
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>		104 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2443062
Chloride	51.3	20.0	1	10/22/24	10/23/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:11PM
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FL5 6'

E410243-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.9 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2443053
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>		104 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2443062
Chloride	48.2	20.0	1	10/22/24	10/23/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:11PM
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FL6 6'

E410243-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.6 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.2 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2443053
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>		101 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2443062
Chloride	50.5	20.0	1	10/22/24	10/22/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:11PM
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FL7 6'

E410243-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.2 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2443053
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>		104 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2443062
Chloride	41.4	20.0	1	10/22/24	10/23/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:11PM
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FL8 6'

E410243-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.1 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2443053
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>		104 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2443062
Chloride	51.6	20.0	1	10/22/24	10/23/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:11PM
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FL9 6'

E410243-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.9 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.8 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2443053
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>		103 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2443062
Chloride	44.5	20.0	1	10/22/24	10/23/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:11PM
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FL10 6'

E410243-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.7 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2443053
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>		106 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2443062
Chloride	47.7	20.0	1	10/22/24	10/23/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:11PM
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FL11 6'

E410243-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.5 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2443053
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2443062
Chloride	42.7	20.0	1	10/22/24	10/23/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:11PM
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FL12 6'

E410243-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.1 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2443053
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>		112 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2443062
Chloride	73.5	20.0	1	10/22/24	10/23/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:11PM
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FL13 6'

E410243-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.9 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2443053
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>		104 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2443062
Chloride	97.4	20.0	1	10/22/24	10/23/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:11PM
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FL14 6'

E410243-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.0 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2443053
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>		105 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2443062
Chloride	77.9	20.0	1	10/22/24	10/23/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:11PM
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FL15 6'

E410243-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.7 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2443053
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>		104 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2443062
Chloride	80.9	20.0	1	10/22/24	10/23/24	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:11PM
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FL16 6'

E410243-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.6 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2443034
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.6 %	70-130	10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2443053
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/23/24	
<i>Surrogate: n-Nonane</i>		105 %	50-200	10/22/24	10/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2443062
Chloride	77.0	20.0	1	10/22/24	10/23/24	



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:11PM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2443034-BLK1)

Prepared: 10/22/24 Analyzed: 10/23/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.95		8.00		99.4	70-130			

LCS (2443034-BS1)

Prepared: 10/22/24 Analyzed: 10/23/24

Benzene	5.11	0.0250	5.00		102	70-130			
Ethylbenzene	4.96	0.0250	5.00		99.2	70-130			
Toluene	5.06	0.0250	5.00		101	70-130			
o-Xylene	4.98	0.0250	5.00		99.6	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.98		8.00		99.8	70-130			

Matrix Spike (2443034-MS1)

Source: E410243-09

Prepared: 10/22/24 Analyzed: 10/23/24

Benzene	5.20	0.0250	5.00	ND	104	54-133			
Ethylbenzene	5.08	0.0250	5.00	ND	102	61-133			
Toluene	5.16	0.0250	5.00	ND	103	61-130			
o-Xylene	5.09	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.0	70-130			

Matrix Spike Dup (2443034-MSD1)

Source: E410243-09

Prepared: 10/22/24 Analyzed: 10/23/24

Benzene	5.76	0.0250	5.00	ND	115	54-133	10.1	20	
Ethylbenzene	5.62	0.0250	5.00	ND	112	61-133	10.1	20	
Toluene	5.72	0.0250	5.00	ND	114	61-130	10.3	20	
o-Xylene	5.64	0.0250	5.00	ND	113	63-131	10.2	20	
p,m-Xylene	11.4	0.0500	10.0	ND	114	63-131	9.89	20	
Total Xylenes	17.1	0.0250	15.0	ND	114	63-131	10.0	20	
Surrogate: 4-Bromochlorobenzene-PID	7.88		8.00		98.5	70-130			



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:11PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2443034-BLK1)

Prepared: 10/22/24 Analyzed: 10/23/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		8.00		89.4	70-130			

LCS (2443034-BS2)

Prepared: 10/22/24 Analyzed: 10/23/24

Gasoline Range Organics (C6-C10)	37.4	20.0	50.0		74.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.7	70-130			

Matrix Spike (2443034-MS2)

Source: E410243-09

Prepared: 10/22/24 Analyzed: 10/23/24

Gasoline Range Organics (C6-C10)	39.4	20.0	50.0	ND	78.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.8	70-130			

Matrix Spike Dup (2443034-MSD2)

Source: E410243-09

Prepared: 10/22/24 Analyzed: 10/23/24

Gasoline Range Organics (C6-C10)	45.5	20.0	50.0	ND	91.0	70-130	14.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		8.00		91.3	70-130			



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:11PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2443053-BLK1)

Prepared: 10/22/24 Analyzed: 10/23/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	58.7		50.0		117	50-200			

LCS (2443053-BS1)

Prepared: 10/22/24 Analyzed: 10/23/24

Diesel Range Organics (C10-C28)	285	25.0	250		114	38-132			
Surrogate: n-Nonane	52.0		50.0		104	50-200			

LCS Dup (2443053-BSD1)

Prepared: 10/22/24 Analyzed: 10/23/24

Diesel Range Organics (C10-C28)	285	25.0	250		114	38-132	0.227	20	
Surrogate: n-Nonane	52.2		50.0		104	50-200			



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 10/24/2024 2:46:11PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2443062-BLK1)

Prepared: 10/22/24 Analyzed: 10/22/24

Chloride	ND	20.0							
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LCS (2443062-BS1)

Prepared: 10/22/24 Analyzed: 10/22/24

Chloride	259	20.0	250		104	90-110			
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Matrix Spike (2443062-MS1)

Source: E410243-06

Prepared: 10/22/24 Analyzed: 10/22/24

Chloride	316	20.0	250	50.5	106	80-120			
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Matrix Spike Dup (2443062-MSD1)

Source: E410243-06

Prepared: 10/22/24 Analyzed: 10/22/24

Chloride	310	20.0	250	50.5	104	80-120	1.74	20	
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QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Select Water Solutions, LLC	Project Name:	Red Deer - Mack Energy	
PO Box 1715	Project Number:	24019-0001	Reported:
Gainesville TX, 76241	Project Manager:	Bradley Wells	10/24/24 14:46

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Released to Imaging: 3/30/2025 9:02:18 AM

Client: Select Energy
 Project: Red Deer - Mack Energy
 Project Manager: Bradley Wells
 Address: 4024 Plains Hwy
 City, State, Zip: Lovington, NM 88260, NM, 88260
 Phone: 575 393-3386
 Email: pm@hungry-horse.com
 Report due by:

Bill To
 Attention: Timsan Bricker
 Address: 1502 E Greene St.
 City, State, Zip: Carlsbad
 Phone: 515-200-7551
 Email: tbricker@selectwater.com

Lab Use Only
 Lab WO# E-410243
 Job Number 24019.000

TAT
 1D 2D 3D Standard X
EPA Program
 CWA SDWA
 RCRA

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	State					Remarks	
															NM	CO	UT	AZ	TX		
805	10/18/24	Soil	1	FL1	4'	1							X								
806	10/18/24	Soil	1	FL2	4'	2							X								
807	10/18/24	Soil	1	FL3	6'	3							X								
808	10/18/24	Soil	1	FL4	6'	4							X								
809	10/18/24	Soil	1	FL5	6'	5							X								
810	10/18/24	Soil	1	FL6	6'	6							X								
811	10/18/24	Soil	1	FL7	6'	7							X								
812	10/18/24	Soil	1	FL8	6'	8							X								
813	10/18/24	Soil	1	FL9	6'	9							X								
814	10/18/24	Soil	1	FL10	6'	10							X								

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Relinquished by: (Signature) <i>[Signature]</i>			Date 10/21/24	Time 3:31 pm	Received by: (Signature) <i>[Signature]</i>			Date 10-21-24	Time 1546	Received on Ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N		
Relinquished by: (Signature) <i>[Signature]</i>			Date 10-21-24	Time 1830	Received by: (Signature) <i>[Signature]</i>			Date 10-21-24	Time 1830	T1 _____ T2 _____ T3 _____		
Relinquished by: (Signature) <i>[Signature]</i>			Date 10-21-24	Time 2400	Received by: (Signature) <i>[Signature]</i>			Date 10-22-24	Time 7:45	AVG Temp: °C 4		

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Received by: OGD - 5/12/2025 3:30:31 PM Page 27 of 29 Page 312 of 106

Released To Imaging: 5/30/2025 9:02:18 AM

Client: Select Energy
 Project: Red Deer - Mack Energy
 Project Manager: Bradley Wells
 Address: 4024 Plains Hwy
 City, State, Zip: Lovington, NM 88260, NM, 88260
 Phone: 575 393-3386
 Email: pm@hungry-horse.com

Bill To
 Attention: Timsan Bricker
 Address: 1502 E Greene St.
 City, State, Zip: Carlsbad
 Phone: 515-200-7551
 Email: tbricker@selectwater.com

Lab Use Only
 Lab WO# E-910243 Job Number 2409.0001
TAT
 1D 2D 3D Standard X
EPA Program
 CWA SDWA
 RCRA

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	State					Remarks		
															NM	CO	UT	AZ	TX			
815	10/18/24	Soil	1	FL11	6'	11							X									
816	10/18/24	Soil	1	FL12	6'	12							X									
817	10/18/24	Soil	1	FL13	6'	13							X									
818	10/18/24	Soil	1	FL14	6'	14							X									
819	10/18/24	Soil	1	FL15	6'	15							X									
820	10/18/24	Soil	1	FL16	6'	16							X									

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <i>[Signature]</i>			Date	Time	Received by: (Signature) <i>[Signature]</i>			Date	Time	Lab Use Only		
Relinquished by: (Signature) <i>[Signature]</i>			10/21/24	3:31 pm	Received by: (Signature) <i>[Signature]</i>			10-21-24	1546	Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N		
Relinquished by: (Signature) <i>[Signature]</i>			10-21-24	1830	Received by: (Signature) <i>[Signature]</i>			10-21-24	1830	T1 _____ T2 _____ T3 _____		
Relinquished by: (Signature) <i>[Signature]</i>			10-21-24	2400	Received by: (Signature) <i>[Signature]</i>			10-21-24	7:45	AVG Temp: °C <u>4</u>		

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
 Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



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Envirotech Analytical Laboratory

Printed: 10/22/2024 11:24:26AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Select Water Solutions, LLC	Date Received: 10/22/24 07:45	Work Order ID: E410243
Phone: (575) 393-3386	Date Logged In: 10/21/24 17:59	Logged In By: Noe Soto
Email: pm@hungry-horse.com	Due Date: 10/28/24 17:00 (4 day TAT)	

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
- 2. Does the number of samples per sampling site location match the COC? Yes
- 3. Were samples dropped off by client or carrier? Yes
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
- 5. Were all samples received within holding time? Yes

Carrier: courier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Comments/Resolution

Sampled by not provided on COC per client.

Sample Turn Around Time (TAT)

- 6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

- 7. Was a sample cooler received? Yes
- 8. If yes, was cooler received in good condition? Yes
- 9. Was the sample(s) received intact, i.e., not broken? Yes
- 10. Were custody/security seals present? No
- 11. If yes, were custody/security seals intact? NA
- 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

- 14. Are aqueous VOC samples present? No
- 15. Are VOC samples collected in VOA Vials? NA
- 16. Is the head space less than 6-8 mm (pea sized or less)? NA
- 17. Was a trip blank (TB) included for VOC analyses? NA
- 18. Are non-VOC samples collected in the correct containers? Yes
- 19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

- 20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? No
 - Collectors name? No

Sample Preservation

- 21. Does the COC or field labels indicate the samples were preserved? No
- 22. Are sample(s) correctly preserved? NA
- 24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

- 26. Does the sample have more than one phase, i.e., multiphase? No
- 27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

- 28. Are samples required to get sent to a subcontract laboratory? No
- 29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Bradley Wells



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Select Water Solutions, LLC

Project Name: Red Deer - Mack Energy

Work Order: E502069

Job Number: 24019-0001

Received: 2/10/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/13/25

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.



Date Reported: 2/13/25

Bradley Wells
PO Box 1715
Gainesville, TX 76241

Project Name: Red Deer - Mack Energy
Workorder: E502069
Date Received: 2/10/2025 7:30:00AM

Bradley Wells,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/10/2025 7:30:00AM, under the Project Name: Red Deer - Mack Energy.

The analytical test results summarized in this report with the Project Name: Red Deer - Mack Energy apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 02/13/25 12:49
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FL1 1	E502069-01A	Soil	02/07/25	02/10/25	Glass Jar, 2 oz.
FL2 1	E502069-02A	Soil	02/07/25	02/10/25	Glass Jar, 2 oz.
FL3 1	E502069-03A	Soil	02/07/25	02/10/25	Glass Jar, 2 oz.
FL4 1	E502069-04A	Soil	02/07/25	02/10/25	Glass Jar, 2 oz.
FL5 1	E502069-05A	Soil	02/07/25	02/10/25	Glass Jar, 2 oz.
FL6 1	E502069-06A	Soil	02/07/25	02/10/25	Glass Jar, 2 oz.
FL7 1	E502069-07A	Soil	02/07/25	02/10/25	Glass Jar, 2 oz.
FL8 6	E502069-08A	Soil	02/07/25	02/10/25	Glass Jar, 2 oz.
FL9 6	E502069-09A	Soil	02/07/25	02/10/25	Glass Jar, 2 oz.
FL10 6	E502069-10A	Soil	02/07/25	02/10/25	Glass Jar, 2 oz.
FL11 6	E502069-11A	Soil	02/07/25	02/10/25	Glass Jar, 2 oz.
FL12 6	E502069-12A	Soil	02/07/25	02/10/25	Glass Jar, 2 oz.
FL13 6	E502069-13A	Soil	02/07/25	02/10/25	Glass Jar, 2 oz.
FL14 6	E502069-14A	Soil	02/07/25	02/10/25	Glass Jar, 2 oz.
SW1 0-1	E502069-15A	Soil	02/07/25	02/10/25	Glass Jar, 2 oz.
SW2 0-1	E502069-16A	Soil	02/07/25	02/10/25	Glass Jar, 2 oz.
SW3 0-1	E502069-17A	Soil	02/07/25	02/10/25	Glass Jar, 2 oz.
SW4 1-6	E502069-18A	Soil	02/07/25	02/10/25	Glass Jar, 2 oz.
SW5 0-6	E502069-19A	Soil	02/07/25	02/10/25	Glass Jar, 2 oz.
SW6 0-6	E502069-20A	Soil	02/07/25	02/10/25	Glass Jar, 2 oz.
SW7 0-6	E502069-21A	Soil	02/07/25	02/10/25	Glass Jar, 2 oz.
SW8 0-6	E502069-22A	Soil	02/07/25	02/10/25	Glass Jar, 2 oz.

Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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FL1 1
E502069-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2507015	
Benzene	ND	0.0250	1	02/10/25	02/10/25	
Ethylbenzene	ND	0.0250	1	02/10/25	02/11/25	
Toluene	ND	0.0250	1	02/10/25	02/11/25	
o-Xylene	ND	0.0250	1	02/10/25	02/11/25	
p,m-Xylene	ND	0.0500	1	02/10/25	02/11/25	
Total Xylenes	ND	0.0250	1	02/10/25	02/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		82.9 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2507015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/10/25	02/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.2 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2507008	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/10/25	02/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/10/25	02/10/25	
<i>Surrogate: n-Nonane</i>		104 %	61-141	02/10/25	02/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2507021	
Chloride	275	200	10	02/10/25	02/10/25	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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FL2 1
E502069-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Benzene	ND	0.0250	1	02/10/25	02/10/25	
Ethylbenzene	ND	0.0250	1	02/10/25	02/10/25	
Toluene	ND	0.0250	1	02/10/25	02/11/25	
o-Xylene	ND	0.0250	1	02/10/25	02/10/25	
p,m-Xylene	ND	0.0500	1	02/10/25	02/11/25	
Total Xylenes	ND	0.0250	1	02/10/25	02/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		83.3 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/10/25	02/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.9 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2507008
Diesel Range Organics (C10-C28)	ND	25.0	1	02/10/25	02/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/10/25	02/10/25	
<i>Surrogate: n-Nonane</i>		122 %	61-141	02/10/25	02/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2507021
Chloride	351	100	5	02/10/25	02/10/25	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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FL3 1
E502069-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Benzene	ND	0.0250	1	02/10/25	02/11/25	
Ethylbenzene	ND	0.0250	1	02/10/25	02/11/25	
Toluene	ND	0.0250	1	02/10/25	02/11/25	
o-Xylene	ND	0.0250	1	02/10/25	02/11/25	
p,m-Xylene	ND	0.0500	1	02/10/25	02/11/25	
Total Xylenes	ND	0.0250	1	02/10/25	02/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		82.7 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/10/25	02/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.0 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2507008
Diesel Range Organics (C10-C28)	ND	25.0	1	02/10/25	02/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/10/25	02/10/25	
<i>Surrogate: n-Nonane</i>		108 %	61-141	02/10/25	02/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2507021
Chloride	484	100	5	02/10/25	02/10/25	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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FL4 1
E502069-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Benzene	ND	0.0250	1	02/10/25	02/11/25	
Ethylbenzene	ND	0.0250	1	02/10/25	02/11/25	
Toluene	ND	0.0250	1	02/10/25	02/11/25	
o-Xylene	ND	0.0250	1	02/10/25	02/11/25	
p,m-Xylene	ND	0.0500	1	02/10/25	02/11/25	
Total Xylenes	ND	0.0250	1	02/10/25	02/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		82.2 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/10/25	02/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.8 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2507008
Diesel Range Organics (C10-C28)	ND	25.0	1	02/10/25	02/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/10/25	02/10/25	
<i>Surrogate: n-Nonane</i>		95.1 %	61-141	02/10/25	02/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2507021
Chloride	514	200	10	02/10/25	02/10/25	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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FL5 1
E502069-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Benzene	ND	0.0250	1	02/10/25	02/10/25	
Ethylbenzene	ND	0.0250	1	02/10/25	02/10/25	
Toluene	ND	0.0250	1	02/10/25	02/10/25	
o-Xylene	ND	0.0250	1	02/10/25	02/10/25	
p,m-Xylene	ND	0.0500	1	02/10/25	02/10/25	
Total Xylenes	ND	0.0250	1	02/10/25	02/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.1 %	70-130	02/10/25	02/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/10/25	02/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.8 %	70-130	02/10/25	02/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2507008
Diesel Range Organics (C10-C28)	ND	25.0	1	02/10/25	02/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/10/25	02/10/25	
<i>Surrogate: n-Nonane</i>		106 %	61-141	02/10/25	02/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2507021
Chloride	558	200	10	02/10/25	02/10/25	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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FL6 1
E502069-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Benzene	ND	0.0250	1	02/10/25	02/11/25	
Ethylbenzene	ND	0.0250	1	02/10/25	02/11/25	
Toluene	ND	0.0250	1	02/10/25	02/11/25	
o-Xylene	ND	0.0250	1	02/10/25	02/11/25	
p,m-Xylene	ND	0.0500	1	02/10/25	02/11/25	
Total Xylenes	ND	0.0250	1	02/10/25	02/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		83.3 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/10/25	02/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.9 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2507008
Diesel Range Organics (C10-C28)	ND	25.0	1	02/10/25	02/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/10/25	02/10/25	
<i>Surrogate: n-Nonane</i>						
		104 %	61-141	02/10/25	02/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2507021
Chloride	434	200	10	02/10/25	02/10/25	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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FL7 1
E502069-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Benzene	ND	0.0250	1	02/10/25	02/11/25	
Ethylbenzene	ND	0.0250	1	02/10/25	02/11/25	
Toluene	ND	0.0250	1	02/10/25	02/11/25	
o-Xylene	ND	0.0250	1	02/10/25	02/11/25	
p,m-Xylene	ND	0.0500	1	02/10/25	02/11/25	
Total Xylenes	ND	0.0250	1	02/10/25	02/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		83.8 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/10/25	02/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.4 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2507008
Diesel Range Organics (C10-C28)	ND	25.0	1	02/10/25	02/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/10/25	02/10/25	
<i>Surrogate: n-Nonane</i>		108 %	61-141	02/10/25	02/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2507021
Chloride	ND	200	10	02/10/25	02/10/25	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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FL8 6
E502069-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Benzene	ND	0.0250	1	02/10/25	02/11/25	
Ethylbenzene	ND	0.0250	1	02/10/25	02/11/25	
Toluene	ND	0.0250	1	02/10/25	02/11/25	
o-Xylene	ND	0.0250	1	02/10/25	02/11/25	
p,m-Xylene	ND	0.0500	1	02/10/25	02/11/25	
Total Xylenes	ND	0.0250	1	02/10/25	02/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		84.1 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/10/25	02/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.2 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2507008
Diesel Range Organics (C10-C28)	ND	25.0	1	02/10/25	02/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/10/25	02/10/25	
<i>Surrogate: n-Nonane</i>		108 %	61-141	02/10/25	02/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2507021
Chloride	ND	200	10	02/10/25	02/10/25	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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FL9 6
E502069-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Benzene	ND	0.0250	1	02/10/25	02/11/25	
Ethylbenzene	ND	0.0250	1	02/10/25	02/11/25	
Toluene	ND	0.0250	1	02/10/25	02/11/25	
o-Xylene	ND	0.0250	1	02/10/25	02/11/25	
p,m-Xylene	ND	0.0500	1	02/10/25	02/11/25	
Total Xylenes	ND	0.0250	1	02/10/25	02/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		85.2 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/10/25	02/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.2 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2507008
Diesel Range Organics (C10-C28)	ND	25.0	1	02/10/25	02/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/10/25	02/10/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	02/10/25	02/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2507021
Chloride	ND	200	10	02/10/25	02/10/25	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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FL10 6

E502069-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Benzene	ND	0.0250	1	02/10/25	02/11/25	
Ethylbenzene	ND	0.0250	1	02/10/25	02/11/25	
Toluene	ND	0.0250	1	02/10/25	02/11/25	
o-Xylene	ND	0.0250	1	02/10/25	02/11/25	
p,m-Xylene	ND	0.0500	1	02/10/25	02/11/25	
Total Xylenes	ND	0.0250	1	02/10/25	02/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		86.5 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/10/25	02/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.0 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2507008
Diesel Range Organics (C10-C28)	ND	25.0	1	02/10/25	02/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/10/25	02/10/25	
<i>Surrogate: n-Nonane</i>		104 %	61-141	02/10/25	02/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2507021
Chloride	ND	200	10	02/10/25	02/10/25	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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FL11 6

E502069-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Benzene	ND	0.0250	1	02/10/25	02/11/25	
Ethylbenzene	ND	0.0250	1	02/10/25	02/11/25	
Toluene	ND	0.0250	1	02/10/25	02/11/25	
o-Xylene	ND	0.0250	1	02/10/25	02/11/25	
p,m-Xylene	ND	0.0500	1	02/10/25	02/11/25	
Total Xylenes	ND	0.0250	1	02/10/25	02/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		86.8 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/10/25	02/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.6 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2507008
Diesel Range Organics (C10-C28)	ND	25.0	1	02/10/25	02/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/10/25	02/10/25	
<i>Surrogate: n-Nonane</i>		108 %	61-141	02/10/25	02/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2507021
Chloride	ND	200	10	02/10/25	02/10/25	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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FL12 6

E502069-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Benzene	ND	0.0250	1	02/10/25	02/11/25	
Ethylbenzene	ND	0.0250	1	02/10/25	02/11/25	
Toluene	ND	0.0250	1	02/10/25	02/11/25	
o-Xylene	ND	0.0250	1	02/10/25	02/11/25	
p,m-Xylene	ND	0.0500	1	02/10/25	02/11/25	
Total Xylenes	ND	0.0250	1	02/10/25	02/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		86.1 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/10/25	02/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.2 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2507008
Diesel Range Organics (C10-C28)	ND	25.0	1	02/10/25	02/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/10/25	02/10/25	
<i>Surrogate: n-Nonane</i>		104 %	61-141	02/10/25	02/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2507021
Chloride	ND	200	10	02/10/25	02/10/25	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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FL13 6

E502069-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Benzene	ND	0.0250	1	02/10/25	02/11/25	
Ethylbenzene	ND	0.0250	1	02/10/25	02/11/25	
Toluene	ND	0.0250	1	02/10/25	02/11/25	
o-Xylene	ND	0.0250	1	02/10/25	02/11/25	
p,m-Xylene	ND	0.0500	1	02/10/25	02/11/25	
Total Xylenes	ND	0.0250	1	02/10/25	02/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.7 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/10/25	02/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.5 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2507008
Diesel Range Organics (C10-C28)	ND	25.0	1	02/10/25	02/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/10/25	02/10/25	
<i>Surrogate: n-Nonane</i>		108 %	61-141	02/10/25	02/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2507021
Chloride	21.3	20.0	1	02/10/25	02/10/25	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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FL14 6

E502069-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Benzene	ND	0.0250	1	02/10/25	02/11/25	
Ethylbenzene	ND	0.0250	1	02/10/25	02/11/25	
Toluene	ND	0.0250	1	02/10/25	02/11/25	
o-Xylene	ND	0.0250	1	02/10/25	02/11/25	
p,m-Xylene	ND	0.0500	1	02/10/25	02/11/25	
Total Xylenes	ND	0.0250	1	02/10/25	02/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.3 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/10/25	02/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.6 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2507008
Diesel Range Organics (C10-C28)	ND	25.0	1	02/10/25	02/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/10/25	02/10/25	
<i>Surrogate: n-Nonane</i>		108 %	61-141	02/10/25	02/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2507021
Chloride	ND	100	5	02/10/25	02/10/25	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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SW1 0-1
E502069-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Benzene	ND	0.0250	1	02/10/25	02/11/25	
Ethylbenzene	ND	0.0250	1	02/10/25	02/11/25	
Toluene	ND	0.0250	1	02/10/25	02/11/25	
o-Xylene	ND	0.0250	1	02/10/25	02/11/25	
p,m-Xylene	ND	0.0500	1	02/10/25	02/11/25	
Total Xylenes	ND	0.0250	1	02/10/25	02/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		88.9 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/10/25	02/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.4 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2507008
Diesel Range Organics (C10-C28)	ND	25.0	1	02/10/25	02/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/10/25	02/10/25	
<i>Surrogate: n-Nonane</i>						
		110 %	61-141	02/10/25	02/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2507021
Chloride	34.0	20.0	1	02/10/25	02/10/25	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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SW2 0-1
E502069-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Benzene	ND	0.0250	1	02/10/25	02/11/25	
Ethylbenzene	ND	0.0250	1	02/10/25	02/11/25	
Toluene	ND	0.0250	1	02/10/25	02/11/25	
o-Xylene	ND	0.0250	1	02/10/25	02/11/25	
p,m-Xylene	ND	0.0500	1	02/10/25	02/11/25	
Total Xylenes	ND	0.0250	1	02/10/25	02/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.6 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/10/25	02/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.5 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2507008
Diesel Range Organics (C10-C28)	ND	25.0	1	02/10/25	02/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/10/25	02/10/25	
<i>Surrogate: n-Nonane</i>		112 %	61-141	02/10/25	02/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2507021
Chloride	28.5	20.0	1	02/10/25	02/10/25	

Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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SW3 0-1
E502069-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Benzene	ND	0.0250	1	02/10/25	02/11/25	
Ethylbenzene	ND	0.0250	1	02/10/25	02/11/25	
Toluene	ND	0.0250	1	02/10/25	02/11/25	
o-Xylene	ND	0.0250	1	02/10/25	02/11/25	
p,m-Xylene	ND	0.0500	1	02/10/25	02/11/25	
Total Xylenes	ND	0.0250	1	02/10/25	02/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.1 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/10/25	02/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.1 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2507008
Diesel Range Organics (C10-C28)	ND	25.0	1	02/10/25	02/11/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/10/25	02/11/25	
<i>Surrogate: n-Nonane</i>		112 %	61-141	02/10/25	02/11/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2507021
Chloride	135	20.0	1	02/10/25	02/11/25	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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SW4 1-6
E502069-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Benzene	ND	0.0250	1	02/10/25	02/11/25	
Ethylbenzene	ND	0.0250	1	02/10/25	02/11/25	
Toluene	ND	0.0250	1	02/10/25	02/11/25	
o-Xylene	ND	0.0250	1	02/10/25	02/11/25	
p,m-Xylene	ND	0.0500	1	02/10/25	02/11/25	
Total Xylenes	ND	0.0250	1	02/10/25	02/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.7 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/10/25	02/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.1 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2507008
Diesel Range Organics (C10-C28)	ND	25.0	1	02/10/25	02/11/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/10/25	02/11/25	
<i>Surrogate: n-Nonane</i>		116 %	61-141	02/10/25	02/11/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2507021
Chloride	138	20.0	1	02/10/25	02/11/25	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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**SW5 0-6
E502069-19**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Benzene	ND	0.0250	1	02/10/25	02/11/25	
Ethylbenzene	ND	0.0250	1	02/10/25	02/11/25	
Toluene	ND	0.0250	1	02/10/25	02/11/25	
o-Xylene	ND	0.0250	1	02/10/25	02/11/25	
p,m-Xylene	ND	0.0500	1	02/10/25	02/11/25	
Total Xylenes	ND	0.0250	1	02/10/25	02/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.7 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/10/25	02/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.1 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2507008
Diesel Range Organics (C10-C28)	ND	25.0	1	02/10/25	02/11/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/10/25	02/11/25	
<i>Surrogate: n-Nonane</i>		97.3 %	61-141	02/10/25	02/11/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2507021
Chloride	147	20.0	1	02/10/25	02/11/25	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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SW6 0-6
E502069-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Benzene	ND	0.0250	1	02/10/25	02/11/25	
Ethylbenzene	ND	0.0250	1	02/10/25	02/11/25	
Toluene	ND	0.0250	1	02/10/25	02/11/25	
o-Xylene	ND	0.0250	1	02/10/25	02/11/25	
p,m-Xylene	ND	0.0500	1	02/10/25	02/11/25	
Total Xylenes	ND	0.0250	1	02/10/25	02/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.6 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2507015
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/10/25	02/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.8 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2507008
Diesel Range Organics (C10-C28)	ND	25.0	1	02/10/25	02/11/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/10/25	02/11/25	
<i>Surrogate: n-Nonane</i>		109 %	61-141	02/10/25	02/11/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2507021
Chloride	46.8	20.0	1	02/10/25	02/11/25	

Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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SW7 0-6
E502069-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2507016
Benzene	ND	0.0250	1	02/10/25	02/11/25	
Ethylbenzene	ND	0.0250	1	02/10/25	02/11/25	
Toluene	ND	0.0250	1	02/10/25	02/11/25	
o-Xylene	ND	0.0250	1	02/10/25	02/11/25	
p,m-Xylene	ND	0.0500	1	02/10/25	02/11/25	
Total Xylenes	ND	0.0250	1	02/10/25	02/11/25	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	02/10/25	02/11/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	02/10/25	02/11/25	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2507016
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/10/25	02/11/25	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	02/10/25	02/11/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	02/10/25	02/11/25	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2507006
Diesel Range Organics (C10-C28)	ND	25.0	1	02/10/25	02/11/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/10/25	02/11/25	
<i>Surrogate: n-Nonane</i>		112 %	61-141	02/10/25	02/11/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2507022
Chloride	131	20.0	1	02/10/25	02/10/25	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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SW8 0-6
E502069-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: SL		Batch: 2507016
Benzene	ND	0.0250	1	02/10/25	02/11/25	
Ethylbenzene	ND	0.0250	1	02/10/25	02/11/25	
Toluene	ND	0.0250	1	02/10/25	02/11/25	
o-Xylene	ND	0.0250	1	02/10/25	02/11/25	
p,m-Xylene	ND	0.0500	1	02/10/25	02/11/25	
Total Xylenes	ND	0.0250	1	02/10/25	02/11/25	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	02/10/25	02/11/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	02/10/25	02/11/25	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: SL		Batch: 2507016
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/10/25	02/11/25	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	02/10/25	02/11/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	02/10/25	02/11/25	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	02/10/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: KH		Batch: 2507006
Diesel Range Organics (C10-C28)	ND	25.0	1	02/10/25	02/11/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/10/25	02/11/25	
<i>Surrogate: n-Nonane</i>		110 %	61-141	02/10/25	02/11/25	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: AK		Batch: 2507022
Chloride	120	20.0	1	02/10/25	02/10/25	



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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Volatile Organic Compounds by EPA 8260B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2507016-BLK1)

Prepared: 02/10/25 Analyzed: 02/10/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.517		0.500		103		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.521		0.500		104		70-130		
Surrogate: Toluene-d8	0.526		0.500		105		70-130		

LCS (2507016-BS1)

Prepared: 02/10/25 Analyzed: 02/10/25

Benzene	2.31	0.0250	2.50		92.3		70-130		
Ethylbenzene	2.37	0.0250	2.50		95.0		70-130		
Toluene	2.49	0.0250	2.50		99.5		70-130		
o-Xylene	2.33	0.0250	2.50		93.2		70-130		
p,m-Xylene	4.88	0.0500	5.00		97.6		70-130		
Total Xylenes	7.21	0.0250	7.50		96.1		70-130		
Surrogate: Bromofluorobenzene	0.498		0.500		99.6		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.521		0.500		104		70-130		
Surrogate: Toluene-d8	0.515		0.500		103		70-130		

Matrix Spike (2507016-MS1)

Source: E502068-25

Prepared: 02/10/25 Analyzed: 02/10/25

Benzene	2.26	0.0250	2.50	ND	90.6		48-131		
Ethylbenzene	2.33	0.0250	2.50	ND	93.3		45-135		
Toluene	2.43	0.0250	2.50	ND	97.3		48-130		
o-Xylene	2.32	0.0250	2.50	ND	92.7		43-135		
p,m-Xylene	4.87	0.0500	5.00	ND	97.5		43-135		
Total Xylenes	7.19	0.0250	7.50	ND	95.9		43-135		
Surrogate: Bromofluorobenzene	0.504		0.500		101		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103		70-130		
Surrogate: Toluene-d8	0.519		0.500		104		70-130		

Matrix Spike Dup (2507016-MSD1)

Source: E502068-25

Prepared: 02/10/25 Analyzed: 02/10/25

Benzene	2.36	0.0250	2.50	ND	94.4		48-131	4.17	23
Ethylbenzene	2.44	0.0250	2.50	ND	97.5		45-135	4.40	27
Toluene	2.57	0.0250	2.50	ND	103		48-130	5.58	24
o-Xylene	2.47	0.0250	2.50	ND	99.0		43-135	6.55	27
p,m-Xylene	5.23	0.0500	5.00	ND	104		43-135	6.96	27
Total Xylenes	7.70	0.0250	7.50	ND	103		43-135	6.83	27
Surrogate: Bromofluorobenzene	0.509		0.500		102		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.518		0.500		104		70-130		
Surrogate: Toluene-d8	0.521		0.500		104		70-130		



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2507015-BLK1)

Prepared: 02/10/25 Analyzed: 02/10/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.10		8.00		88.7	70-130			

LCS (2507015-BS1)

Prepared: 02/10/25 Analyzed: 02/10/25

Benzene	4.44	0.0250	5.00		88.7	70-130			
Ethylbenzene	4.52	0.0250	5.00		90.3	70-130			
Toluene	4.53	0.0250	5.00		90.7	70-130			
o-Xylene	4.56	0.0250	5.00		91.1	70-130			
p,m-Xylene	9.19	0.0500	10.0		91.9	70-130			
Total Xylenes	13.7	0.0250	15.0		91.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.12		8.00		89.1	70-130			

Matrix Spike (2507015-MS1)

Source: E502069-05

Prepared: 02/10/25 Analyzed: 02/10/25

Benzene	4.55	0.0250	5.00	ND	90.9	54-133			
Ethylbenzene	4.62	0.0250	5.00	ND	92.4	61-133			
Toluene	4.65	0.0250	5.00	ND	93.0	61-130			
o-Xylene	4.68	0.0250	5.00	ND	93.6	63-131			
p,m-Xylene	9.41	0.0500	10.0	ND	94.1	63-131			
Total Xylenes	14.1	0.0250	15.0	ND	93.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.14		8.00		89.2	70-130			

Matrix Spike Dup (2507015-MSD1)

Source: E502069-05

Prepared: 02/10/25 Analyzed: 02/10/25

Benzene	4.75	0.0250	5.00	ND	95.1	54-133	4.47	20	
Ethylbenzene	4.86	0.0250	5.00	ND	97.2	61-133	4.96	20	
Toluene	4.87	0.0250	5.00	ND	97.5	61-130	4.69	20	
o-Xylene	4.89	0.0250	5.00	ND	97.8	63-131	4.35	20	
p,m-Xylene	9.87	0.0500	10.0	ND	98.7	63-131	4.86	20	
Total Xylenes	14.8	0.0250	15.0	ND	98.4	63-131	4.69	20	
Surrogate: 4-Bromochlorobenzene-PID	7.18		8.00		89.7	70-130			



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2507015-BLK1)

Prepared: 02/10/25 Analyzed: 02/10/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			

LCS (2507015-BS2)

Prepared: 02/10/25 Analyzed: 02/10/25

Gasoline Range Organics (C6-C10)	43.1	20.0	50.0		86.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.75		8.00		96.8	70-130			

Matrix Spike (2507015-MS2)

Source: E502069-05

Prepared: 02/10/25 Analyzed: 02/10/25

Gasoline Range Organics (C6-C10)	41.5	20.0	50.0	ND	83.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		8.00		97.1	70-130			

Matrix Spike Dup (2507015-MSD2)

Source: E502069-05

Prepared: 02/10/25 Analyzed: 02/10/25

Gasoline Range Organics (C6-C10)	42.9	20.0	50.0	ND	85.7	70-130	3.15	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.2	70-130			



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2507016-BLK1)

Prepared: 02/10/25 Analyzed: 02/10/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.521		0.500		104	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

LCS (2507016-BS2)

Prepared: 02/10/25 Analyzed: 02/10/25

Gasoline Range Organics (C6-C10)	57.9	20.0	50.0		116	70-130			
Surrogate: Bromofluorobenzene	0.529		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.536		0.500		107	70-130			

Matrix Spike (2507016-MS2)

Source: E502068-25

Prepared: 02/10/25 Analyzed: 02/10/25

Gasoline Range Organics (C6-C10)	56.4	20.0	50.0	ND	113	70-130			
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

Matrix Spike Dup (2507016-MSD2)

Source: E502068-25

Prepared: 02/10/25 Analyzed: 02/10/25

Gasoline Range Organics (C6-C10)	57.3	20.0	50.0	ND	115	70-130	1.59	20	
Surrogate: Bromofluorobenzene	0.531		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2507006-BLK1)

Prepared: 02/10/25 Analyzed: 02/10/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	56.0		50.0		112	61-141			

LCS (2507006-BS1)

Prepared: 02/10/25 Analyzed: 02/10/25

Diesel Range Organics (C10-C28)	259	25.0	250		104	66-144			
Surrogate: <i>n</i> -Nonane	54.8		50.0		110	61-141			

Matrix Spike (2507006-MS1)

Source: E502060-05

Prepared: 02/10/25 Analyzed: 02/11/25

Diesel Range Organics (C10-C28)	287	25.0	250	ND	115	56-156			
Surrogate: <i>n</i> -Nonane	57.9		50.0		116	61-141			

Matrix Spike Dup (2507006-MSD1)

Source: E502060-05

Prepared: 02/10/25 Analyzed: 02/11/25

Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	56-156	10.6	20	
Surrogate: <i>n</i> -Nonane	52.4		50.0		105	61-141			



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2507008-BLK1)

Prepared: 02/10/25 Analyzed: 02/10/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	49.6		50.0		99.2	61-141			

LCS (2507008-BS1)

Prepared: 02/10/25 Analyzed: 02/10/25

Diesel Range Organics (C10-C28)	265	25.0	250		106	66-144			
Surrogate: <i>n</i> -Nonane	49.9		50.0		99.7	61-141			

Matrix Spike (2507008-MS1)

Source: E502069-10

Prepared: 02/10/25 Analyzed: 02/10/25

Diesel Range Organics (C10-C28)	289	25.0	250	ND	116	56-156			
Surrogate: <i>n</i> -Nonane	53.5		50.0		107	61-141			

Matrix Spike Dup (2507008-MSD1)

Source: E502069-10

Prepared: 02/10/25 Analyzed: 02/10/25

Diesel Range Organics (C10-C28)	266	25.0	250	ND	106	56-156	8.40	20	
Surrogate: <i>n</i> -Nonane	50.1		50.0		100	61-141			



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2507021-BLK1)

Prepared: 02/10/25 Analyzed: 02/10/25

Chloride ND 20.0

LCS (2507021-BS1)

Prepared: 02/10/25 Analyzed: 02/10/25

Chloride 258 20.0 250 103 90-110

Matrix Spike (2507021-MS1)

Source: E502069-03

Prepared: 02/10/25 Analyzed: 02/10/25

Chloride 714 100 250 484 92.0 80-120

Matrix Spike Dup (2507021-MSD1)

Source: E502069-03

Prepared: 02/10/25 Analyzed: 02/10/25

Chloride 749 100 250 484 106 80-120 4.81 20



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Bradley Wells	Reported: 2/13/2025 12:49:11PM
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Anions by EPA 300.0/9056A

Analyst: AK

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2507022-BLK1)

Prepared: 02/10/25 Analyzed: 02/10/25

Chloride ND 20.0

LCS (2507022-BS1)

Prepared: 02/10/25 Analyzed: 02/10/25

Chloride 250 20.0 250 99.9 90-110

Matrix Spike (2507022-MS1)

Source: E502068-28

Prepared: 02/10/25 Analyzed: 02/10/25

Chloride 251 20.0 250 ND 100 80-120

Matrix Spike Dup (2507022-MSD1)

Source: E502068-28

Prepared: 02/10/25 Analyzed: 02/10/25

Chloride 251 20.0 250 ND 100 80-120 0.0666 20

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Select Water Solutions, LLC	Project Name:	Red Deer - Mack Energy	
PO Box 1715	Project Number:	24019-0001	Reported:
Gainesville TX, 76241	Project Manager:	Bradley Wells	02/13/25 12:49

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Released to Imaging: 5/30/2025 9:02:18 AM

Received by OCD: 5/1/2025 3:30:31 PM

Client: Select Energy		Bill To		Lab Use Only				TAT			EPA Program		
Project: Red Deer - Mack Energy		Attention: Timsan Bricker		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Bradley Wells		Address: 1502 E Greene St.		E502009		24019-0001					X		
Address: 4024 Plains Hwy		City, State, Zip: Carlsbad		Analysis and Method				RCRA					
City, State, Zip: Lovington, NM 88260, NM, 88260		Phone: 515-200-7551						State					
Phone: 575 393-3386		Email: tbricker@selectwater.com						NM CO UT AZ TX					
Email: pm@hungry-horse.com								X					
Report due by:								Remarks					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
805	2/7/25	Soil	1	FL1	1	1							X		
807	2/7/25	Soil	1	FL2	1	2							X		
809	2/7/25	Soil	1	FL3	1	3							X		
811	2/7/25	Soil	1	FL4	1	4							X		
813	2/7/25	Soil	1	FL5	1	5							X		
815	2/7/25	Soil	1	FL6	1	6							X		
817	2/7/25	Soil	1	FL7	1	7							X		
819	2/7/25	Soil	1	FL8	6	8							X		
821	2/7/25	Soil	1	FL9	6	9							X		
824	2/7/25	Soil	1	FL10	6	10							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <i>[Signature]</i>		Date	Time	Received by: (Signature) <i>[Signature]</i>		Date	Time	Lab Use Only	
Relinquished by: (Signature) <i>[Signature]</i>		2/7/25	1435	Received by: (Signature) <i>[Signature]</i>		2.7.25	1435	Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N	
Relinquished by: (Signature) <i>[Signature]</i>		2.7.25	1600	Received by: (Signature) <i>[Signature]</i>		2.7.25	1630	T1 _____ T2 _____ T3 _____	
Relinquished by: (Signature) <i>[Signature]</i>		2.7.25	2300	Received by: (Signature) <i>[Signature]</i>		2:1025	730	AVG Temp °C <u>4</u>	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



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Released to Imaging: 5/30/2025 9:02:18 AM

Client: Select Energy
 Project: Red Deer - Mack Energy
 Project Manager: Bradley Wells
 Address: 4024 Plains Hwy
 City, State, Zip: Lovington, NM 88260, NM, 88260
 Phone: 575 393-3386
 Email: pm@hungry-horse.com
 Report due by:

Bill To
 Attention: Timsan Bricker
 Address: 1502 E Greene St.
 City, State, Zip: Carlsbad
 Phone: 515-200-7551
 Email: tbricker@selectwater.com

Lab Use Only
 Lab WO# E502009
 Job Number 2409.0001

TAT
 1D 2D 3D Standard X

EPA Program
 CWA SDWA RCRA

Analysis and Method

State
 NM CO UT AZ TX
 X

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
827	2/7/25	Soil	1	FL11	6	11							X		
830	2/7/25	Soil	1	FL12	6	12							X		
832	2/7/25	Soil	1	FL13	6	13							X		
835	2/7/25	Soil	1	FL14	6	14							X		
837	2/7/25	Soil	1	SW1	0-1	15							X		
840	2/7/25	Soil	1	SW2	0-1	16							X		
845	2/7/25	Soil	1	SW3	0-1	17							X		
847	2/7/25	Soil	1	SW4	1-6	18							X		
850	2/7/25	Soil	1	SW5	0-6	19							X		
852	2/7/25	Soil	1	SW6	0-6	20							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<i>[Signature]</i>	2/7/25	1435	<i>Maria Gomez</i>	2.7.25	1435
<i>Maria Gomez</i>	2.7.25	1600	<i>[Signature]</i>	2.7.25	1630
<i>[Signature]</i>	2.7.25	2300	<i>Caitlynn</i>	2.10.25	730

Lab Use Only
 Received on ice: Y / N
 T1 _____ T2 _____ T3 _____
 AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
 Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Received by: OCD - 5/1/2025 3:30:31 PM

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Page 352 of 406

Released to Imaging: 5/30/2025 9:02:18 AM

Received by: OGD - 5/1/2025 3:30:31 PM

Client: Select Energy	Bill To Attention: Timsan Bricker Address: 1502 E Greene St. City, State, Zip: Carlsbad Phone: 515-200-7551 Email: tbricker@selectwater.com	Lab Use Only						TAT				EPA Program		
Project: Red Deer - Mack Energy		Lab WO#	Job Number					1D	2D	3D	Standard		CWA	SDWA
Project Manager: Bradley Wells		E502019 2409.0001									X			
Address: 4024 Plains Hwy		Analysis and Method												
City, State, Zip: Lovington, NM 88260, NM, 88260		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0				BGDOC NM	BGDOC TX		
Phone: 575 393-3386		State												
Email: pm@hungry-horse.com	NM		CO		UT		AZ		TX					
Report due by:	RCRA													
													Remarks	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
855	2/7/25	Soil	1	SW7	0-6	21							X		
900	2/7/25	Soil	1	SW8	0-6	22							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.

Relinquished by: (Signature) <i>[Signature]</i>	Date 2/7/25	Time 1435	Received by: (Signature) <i>[Signature]</i>	Date 2-7-25	Time 1435	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>[Signature]</i>	Date 2-7-25	Time 1600	Received by: (Signature) <i>[Signature]</i>	Date 2-7-25	Time 1630	
Relinquished by: (Signature) <i>[Signature]</i>	Date 2-7-25	Time 2300	Received by: (Signature) <i>[Signature]</i>	Date 2-10-25	Time 730	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



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Page 353 of 406

Envirotech Analytical Laboratory

Printed: 2/10/2025 8:57:26AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Select Water Solutions, LLC Date Received: 02/10/25 07:30 Work Order ID: E502069
Phone: (940) 668-1818 Date Logged In: 02/07/25 15:43 Logged In By: Caitlin Mars
Email: tbricker@selectwater.com Due Date: 02/14/25 17:00 (4 day TAT)

Chain of Custody (COC)

- 1. Does the sample ID match the COC? No
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

Carrier: courier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Sample Turn Around Time (TAT)

- 6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

- 7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

- 14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

- 20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? No

Sample Preservation

- 21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

- 26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

- 28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Empty box for client instruction.

Comments/Resolution

Sampled by not provided on COC.

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Envirotech Analytical Laboratory

Printed: 2/10/2025 9:09:28AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Select Water Solutions, LLC	Date Received:	02/10/25 07:30	Work Order ID:	E502069
Phone:	(575) 393-3386	Date Logged In:	02/07/25 15:43	Logged In By:	Caitlin Mars
Email:	pm@hungry-horse.com	Due Date:	02/14/25 17:00 (4 day TAT)		

Chain of Custody (COC)

- 1. Does the sample ID match the COC? No
- 2. Does the number of samples per sampling site location match the COC? Yes
- 3. Were samples dropped off by client or carrier? Yes
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
- 5. Were all samples received within holding time? Yes

Carrier: courier

Note: Analysis, such as pH which should be conducted in the field, i.e. 15 minute hold time, are not included in this discussion.

Sample Turn Around Time (TAT)

- 6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

- 7. Was a sample cooler received? Yes
- 8. If yes, was cooler received in good condition? Yes
- 9. Was the sample(s) received intact, i.e., not broken? Yes
- 10. Were custody/security seals present? No
- 11. If yes, were custody/security seals intact? NA
- 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

- 14. Are aqueous VOC samples present? No
- 15. Are VOC samples collected in VOA Vials? NA
- 16. Is the head space less than 6-8 mm (pea sized or less)? NA
- 17. Was a trip blank (TB) included for VOC analyses? NA
- 18. Are non-VOC samples collected in the correct containers? Yes
- 19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

- 20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

- 21. Does the COC or field labels indicate the samples were preserved? No
- 22. Are sample(s) correctly preserved? NA
- 24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

- 26. Does the sample have more than one phase, i.e., multiphase? No
- 27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

- 28. Are samples required to get sent to a subcontract laboratory? No
- 29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Comments/Resolution

Sampled by not provided on COC.

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Daniel Dominguez



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Select Water Solutions, LLC

Project Name: Red Deer - Mack Energy

Work Order: E502094

Job Number: 24019-0001

Received: 2/12/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/18/25

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 2/18/25



Daniel Dominguez
PO Box 1715
Gainesville, TX 76241

Project Name: Red Deer - Mack Energy
Workorder: E502094
Date Received: 2/12/2025 8:00:00AM

Daniel Dominguez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/12/2025 8:00:00AM, under the Project Name: Red Deer - Mack Energy.

The analytical test results summarized in this report with the Project Name: Red Deer - Mack Energy apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Sample Summary

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Daniel Dominguez	Reported: 02/18/25 08:30
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Topsoil	E502094-01A	Soil	02/11/25	02/12/25	Glass Jar, 2 oz.
Caliche	E502094-02A	Soil	02/11/25	02/12/25	Glass Jar, 2 oz.



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Daniel Dominguez	Reported: 2/18/2025 8:30:45AM
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Topsoil
E502094-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2507068
Benzene	ND	0.0250	1	02/12/25	02/13/25	
Ethylbenzene	ND	0.0250	1	02/12/25	02/13/25	
Toluene	ND	0.0250	1	02/12/25	02/13/25	
o-Xylene	ND	0.0250	1	02/12/25	02/13/25	
p,m-Xylene	ND	0.0500	1	02/12/25	02/13/25	
Total Xylenes	ND	0.0250	1	02/12/25	02/13/25	
<i>Surrogate: Bromofluorobenzene</i>		95.9 %	70-130	02/12/25	02/13/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.3 %	70-130	02/12/25	02/13/25	
<i>Surrogate: Toluene-d8</i>		99.0 %	70-130	02/12/25	02/13/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2507068
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/12/25	02/13/25	
<i>Surrogate: Bromofluorobenzene</i>		95.9 %	70-130	02/12/25	02/13/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.3 %	70-130	02/12/25	02/13/25	
<i>Surrogate: Toluene-d8</i>		99.0 %	70-130	02/12/25	02/13/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2507066
Diesel Range Organics (C10-C28)	ND	25.0	1	02/12/25	02/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/12/25	02/13/25	
<i>Surrogate: n-Nonane</i>		115 %	61-141	02/12/25	02/13/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: AK		Batch: 2507067
Chloride	78.0	20.0	1	02/12/25	02/12/25	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Daniel Dominguez	Reported: 2/18/2025 8:30:45AM
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Caliche
E502094-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2507068
Benzene	ND	0.0250	1	02/12/25	02/13/25	
Ethylbenzene	ND	0.0250	1	02/12/25	02/13/25	
Toluene	ND	0.0250	1	02/12/25	02/13/25	
o-Xylene	ND	0.0250	1	02/12/25	02/13/25	
p,m-Xylene	ND	0.0500	1	02/12/25	02/13/25	
Total Xylenes	ND	0.0250	1	02/12/25	02/13/25	
<i>Surrogate: Bromofluorobenzene</i>		95.3 %	70-130	02/12/25	02/13/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.1 %	70-130	02/12/25	02/13/25	
<i>Surrogate: Toluene-d8</i>		97.6 %	70-130	02/12/25	02/13/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2507068
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/12/25	02/13/25	
<i>Surrogate: Bromofluorobenzene</i>		95.3 %	70-130	02/12/25	02/13/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.1 %	70-130	02/12/25	02/13/25	
<i>Surrogate: Toluene-d8</i>		97.6 %	70-130	02/12/25	02/13/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2507066
Diesel Range Organics (C10-C28)	ND	25.0	1	02/12/25	02/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/12/25	02/13/25	
<i>Surrogate: n-Nonane</i>		117 %	61-141	02/12/25	02/13/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: AK		Batch: 2507067
Chloride	21.1	20.0	1	02/12/25	02/12/25	



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Daniel Dominguez	Reported: 2/18/2025 8:30:45AM
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Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2507068-BLK1)

Prepared: 02/12/25 Analyzed: 02/13/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.489		0.500		97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.2	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			

LCS (2507068-BS1)

Prepared: 02/12/25 Analyzed: 02/13/25

Benzene	2.22	0.0250	2.50		88.7	70-130			
Ethylbenzene	2.30	0.0250	2.50		92.0	70-130			
Toluene	2.23	0.0250	2.50		89.1	70-130			
o-Xylene	2.31	0.0250	2.50		92.5	70-130			
p,m-Xylene	4.60	0.0500	5.00		92.0	70-130			
Total Xylenes	6.91	0.0250	7.50		92.2	70-130			
Surrogate: Bromofluorobenzene	0.495		0.500		99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.4	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			

Matrix Spike (2507068-MS1)

Source: E502092-30

Prepared: 02/12/25 Analyzed: 02/13/25

Benzene	2.17	0.0250	2.50	ND	86.9	48-131			
Ethylbenzene	2.19	0.0250	2.50	ND	87.7	45-135			
Toluene	2.13	0.0250	2.50	ND	85.2	48-130			
o-Xylene	2.15	0.0250	2.50	ND	86.2	43-135			
p,m-Xylene	4.32	0.0500	5.00	ND	86.5	43-135			
Total Xylenes	6.48	0.0250	7.50	ND	86.4	43-135			
Surrogate: Bromofluorobenzene	0.491		0.500		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.458		0.500		91.5	70-130			
Surrogate: Toluene-d8	0.485		0.500		97.0	70-130			

Matrix Spike Dup (2507068-MSD1)

Source: E502092-30

Prepared: 02/12/25 Analyzed: 02/13/25

Benzene	2.18	0.0250	2.50	ND	87.0	48-131	0.184	23	
Ethylbenzene	2.20	0.0250	2.50	ND	88.0	45-135	0.342	27	
Toluene	2.15	0.0250	2.50	ND	85.9	48-130	0.795	24	
o-Xylene	2.20	0.0250	2.50	ND	88.0	43-135	2.16	27	
p,m-Xylene	4.41	0.0500	5.00	ND	88.2	43-135	1.94	27	
Total Xylenes	6.61	0.0250	7.50	ND	88.1	43-135	2.01	27	
Surrogate: Bromofluorobenzene	0.492		0.500		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.1	70-130			
Surrogate: Toluene-d8	0.491		0.500		98.2	70-130			



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Daniel Dominguez	Reported: 2/18/2025 8:30:45AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2507068-BLK1)

Prepared: 02/12/25 Analyzed: 02/13/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.489		0.500		97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.2	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			

LCS (2507068-BS2)

Prepared: 02/12/25 Analyzed: 02/13/25

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0		98.3	70-130			
Surrogate: Bromofluorobenzene	0.494		0.500		98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.463		0.500		92.5	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.8	70-130			

Matrix Spike (2507068-MS2)

Source: E502092-30

Prepared: 02/12/25 Analyzed: 02/13/25

Gasoline Range Organics (C6-C10)	53.2	20.0	50.0	ND	106	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.453		0.500		90.6	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			

Matrix Spike Dup (2507068-MSD2)

Source: E502092-30

Prepared: 02/12/25 Analyzed: 02/13/25

Gasoline Range Organics (C6-C10)	51.8	20.0	50.0	ND	104	70-130	2.67	20	
Surrogate: Bromofluorobenzene	0.492		0.500		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.445		0.500		88.9	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Daniel Dominguez	Reported: 2/18/2025 8:30:45AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2507066-BLK1)

Prepared: 02/12/25 Analyzed: 02/12/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.4		50.0		113	61-141			

LCS (2507066-BS1)

Prepared: 02/12/25 Analyzed: 02/12/25

Diesel Range Organics (C10-C28)	249	25.0	250		99.7	66-144			
Surrogate: n-Nonane	53.4		50.0		107	61-141			

Matrix Spike (2507066-MS1)

Source: E502092-24

Prepared: 02/12/25 Analyzed: 02/12/25

Diesel Range Organics (C10-C28)	664	25.0	250	375	115	56-156			
Surrogate: n-Nonane	55.7		50.0		111	61-141			

Matrix Spike Dup (2507066-MSD1)

Source: E502092-24

Prepared: 02/12/25 Analyzed: 02/13/25

Diesel Range Organics (C10-C28)	2520	25.0	250	375	860	56-156	117	20	M4
Surrogate: n-Nonane	58.3		50.0		117	61-141			



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer - Mack Energy Project Number: 24019-0001 Project Manager: Daniel Dominguez	Reported: 2/18/2025 8:30:45AM
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Anions by EPA 300.0/9056A

Analyst: AK

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2507067-BLK1)

Prepared: 02/12/25 Analyzed: 02/12/25

Chloride ND 20.0

LCS (2507067-BS1)

Prepared: 02/12/25 Analyzed: 02/12/25

Chloride 256 20.0 250 102 90-110

Matrix Spike (2507067-MS1)

Source: E502087-03

Prepared: 02/12/25 Analyzed: 02/12/25

Chloride 355 20.0 250 97.2 103 80-120

Matrix Spike Dup (2507067-MSD1)

Source: E502087-03

Prepared: 02/12/25 Analyzed: 02/12/25

Chloride 359 20.0 250 97.2 105 80-120 1.20 20

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Select Water Solutions, LLC	Project Name:	Red Deer - Mack Energy	
PO Box 1715	Project Number:	24019-0001	Reported:
Gainesville TX, 76241	Project Manager:	Daniel Dominguez	02/18/25 08:30

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Envirotech Analytical Laboratory

Printed: 2/12/2025 9:43:10AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Select Water Solutions, LLC	Date Received:	02/12/25 08:00	Work Order ID:	E502094
Phone:	(575) 393-3386	Date Logged In:	02/11/25 15:48	Logged In By:	Caitlin Mars
Email:	pm@hungry-horse.com	Due Date:	02/18/25 17:00 (4 day TAT)		

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
- 2. Does the number of samples per sampling site location match the COC? Yes
- 3. Were samples dropped off by client or carrier? Yes
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
- 5. Were all samples received within holding time? Yes

Carrier: courier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Sample Turn Around Time (TAT)

- 6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

- 7. Was a sample cooler received? Yes
- 8. If yes, was cooler received in good condition? Yes
- 9. Was the sample(s) received intact, i.e., not broken? Yes
- 10. Were custody/security seals present? No
- 11. If yes, were custody/security seals intact? NA
- 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

- 14. Are aqueous VOC samples present? No
- 15. Are VOC samples collected in VOA Vials? NA
- 16. Is the head space less than 6-8 mm (pea sized or less)? NA
- 17. Was a trip blank (TB) included for VOC analyses? NA
- 18. Are non-VOC samples collected in the correct containers? Yes
- 19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

- 20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? No
 - Collectors name? No

Sample Preservation

- 21. Does the COC or field labels indicate the samples were preserved? No
- 22. Are sample(s) correctly preserved? NA
- 24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

- 26. Does the sample have more than one phase, i.e., multiphase? No
- 27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

- 28. Are samples required to get sent to a subcontract laboratory? No
- 29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Comments/Resolution

Time sampled and sampled by not provided on COC.

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Daniel Dominguez



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Select Water Solutions, LLC

Project Name: Red Deer

Work Order: E502291

Job Number: 24019-0001

Received: 3/3/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/4/25

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 3/4/25

Daniel Dominguez
PO Box 1715
Gainesville, TX 76241



Project Name: Red Deer
Workorder: E502291
Date Received: 3/3/2025 5:30:41AM

Daniel Dominguez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/3/2025 5:30:41AM, under the Project Name: Red Deer.

The analytical test results summarized in this report with the Project Name: Red Deer apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
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Sample Summary

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer Project Number: 24019-0001 Project Manager: Daniel Dominguez	Reported: 03/04/25 13:05
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FL15 1.5'	E502291-01A	Soil	02/28/25	03/03/25	Glass Jar, 2 oz.
SW9 0-1.5'	E502291-02A	Soil	02/28/25	03/03/25	Glass Jar, 2 oz.
SW10 0-1.5'	E502291-03A	Soil	02/28/25	03/03/25	Glass Jar, 2 oz.
SW11 0-1.5'	E502291-04A	Soil	02/28/25	03/03/25	Glass Jar, 2 oz.
SW12 0-1.5'	E502291-05A	Soil	02/28/25	03/03/25	Glass Jar, 2 oz.



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer Project Number: 24019-0001 Project Manager: Daniel Dominguez	Reported: 3/4/2025 1:05:57PM
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FL15 1.5'
E502291-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: IY		Batch: 2510002
Benzene	ND	0.0250	1	03/03/25	03/03/25	
Ethylbenzene	ND	0.0250	1	03/03/25	03/03/25	
Toluene	ND	0.0250	1	03/03/25	03/03/25	
o-Xylene	ND	0.0250	1	03/03/25	03/03/25	
p,m-Xylene	ND	0.0500	1	03/03/25	03/03/25	
Total Xylenes	ND	0.0250	1	03/03/25	03/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		80.9 %	70-130	03/03/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: IY		Batch: 2510002
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/25	03/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.5 %	70-130	03/03/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: NV		Batch: 2510010
Diesel Range Organics (C10-C28)	ND	25.0	1	03/03/25	03/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/03/25	03/03/25	
<i>Surrogate: n-Nonane</i>		98.5 %	61-141	03/03/25	03/03/25	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: DT		Batch: 2510019
Chloride	111	20.0	1	03/03/25	03/03/25	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer Project Number: 24019-0001 Project Manager: Daniel Dominguez	Reported: 3/4/2025 1:05:57PM
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SW9 0-1.5'

E502291-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2510002
Benzene	ND	0.0250	1	03/03/25	03/03/25	
Ethylbenzene	ND	0.0250	1	03/03/25	03/03/25	
Toluene	ND	0.0250	1	03/03/25	03/03/25	
o-Xylene	ND	0.0250	1	03/03/25	03/03/25	
p,m-Xylene	ND	0.0500	1	03/03/25	03/03/25	
Total Xylenes	ND	0.0250	1	03/03/25	03/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		81.8 %	70-130	03/03/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2510002
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/25	03/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.1 %	70-130	03/03/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2510010
Diesel Range Organics (C10-C28)	ND	25.0	1	03/03/25	03/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/03/25	03/03/25	
<i>Surrogate: n-Nonane</i>		104 %	61-141	03/03/25	03/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2510019
Chloride	114	20.0	1	03/03/25	03/03/25	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer Project Number: 24019-0001 Project Manager: Daniel Dominguez	Reported: 3/4/2025 1:05:57PM
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SW10 0-1.5'

E502291-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2510002
Benzene	ND	0.0250	1	03/03/25	03/03/25	
Ethylbenzene	ND	0.0250	1	03/03/25	03/03/25	
Toluene	ND	0.0250	1	03/03/25	03/03/25	
o-Xylene	ND	0.0250	1	03/03/25	03/03/25	
p,m-Xylene	ND	0.0500	1	03/03/25	03/03/25	
Total Xylenes	ND	0.0250	1	03/03/25	03/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		81.4 %	70-130	03/03/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2510002
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/25	03/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.9 %	70-130	03/03/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2510010
Diesel Range Organics (C10-C28)	ND	25.0	1	03/03/25	03/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/03/25	03/03/25	
<i>Surrogate: n-Nonane</i>		106 %	61-141	03/03/25	03/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2510019
Chloride	122	20.0	1	03/03/25	03/03/25	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer Project Number: 24019-0001 Project Manager: Daniel Dominguez	Reported: 3/4/2025 1:05:57PM
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SW11 0-1.5'
E502291-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2510002
Benzene	ND	0.0250	1	03/03/25	03/03/25	
Ethylbenzene	ND	0.0250	1	03/03/25	03/03/25	
Toluene	ND	0.0250	1	03/03/25	03/03/25	
o-Xylene	ND	0.0250	1	03/03/25	03/03/25	
p,m-Xylene	ND	0.0500	1	03/03/25	03/03/25	
Total Xylenes	ND	0.0250	1	03/03/25	03/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		80.4 %	70-130	03/03/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2510002
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/25	03/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.5 %	70-130	03/03/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2510010
Diesel Range Organics (C10-C28)	ND	25.0	1	03/03/25	03/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/03/25	03/03/25	
<i>Surrogate: n-Nonane</i>		105 %	61-141	03/03/25	03/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2510019
Chloride	106	20.0	1	03/03/25	03/03/25	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer Project Number: 24019-0001 Project Manager: Daniel Dominguez	Reported: 3/4/2025 1:05:57PM
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SW12 0-1.5'

E502291-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2510002
Benzene	ND	0.0250	1	03/03/25	03/03/25	
Ethylbenzene	ND	0.0250	1	03/03/25	03/03/25	
Toluene	ND	0.0250	1	03/03/25	03/03/25	
o-Xylene	ND	0.0250	1	03/03/25	03/03/25	
p,m-Xylene	ND	0.0500	1	03/03/25	03/03/25	
Total Xylenes	ND	0.0250	1	03/03/25	03/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		80.9 %	70-130	03/03/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2510002
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/25	03/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.4 %	70-130	03/03/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2510010
Diesel Range Organics (C10-C28)	ND	25.0	1	03/03/25	03/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/03/25	03/03/25	
<i>Surrogate: n-Nonane</i>		102 %	61-141	03/03/25	03/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2510019
Chloride	101	20.0	1	03/03/25	03/03/25	



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer Project Number: 24019-0001 Project Manager: Daniel Dominguez	Reported: 3/4/2025 1:05:57PM
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Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2510002-BLK1)

Prepared: 03/03/25 Analyzed: 03/03/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.43		8.00		80.4	70-130			

LCS (2510002-BS1)

Prepared: 03/03/25 Analyzed: 03/03/25

Benzene	4.58	0.0250	5.00		91.5	70-130			
Ethylbenzene	4.48	0.0250	5.00		89.6	70-130			
Toluene	4.57	0.0250	5.00		91.4	70-130			
o-Xylene	4.48	0.0250	5.00		89.6	70-130			
p,m-Xylene	9.11	0.0500	10.0		91.1	70-130			
Total Xylenes	13.6	0.0250	15.0		90.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.44		8.00		80.5	70-130			

LCS Dup (2510002-BSD1)

Prepared: 03/03/25 Analyzed: 03/03/25

Benzene	4.86	0.0250	5.00		97.2	70-130	6.04	20	
Ethylbenzene	4.76	0.0250	5.00		95.3	70-130	6.17	20	
Toluene	4.85	0.0250	5.00		97.0	70-130	5.98	20	
o-Xylene	4.75	0.0250	5.00		95.0	70-130	5.76	20	
p,m-Xylene	9.70	0.0500	10.0		97.0	70-130	6.26	20	
Total Xylenes	14.4	0.0250	15.0		96.3	70-130	6.10	20	
Surrogate: 4-Bromochlorobenzene-PID	6.62		8.00		82.7	70-130			



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer Project Number: 24019-0001 Project Manager: Daniel Dominguez	Reported: 3/4/2025 1:05:57PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2510002-BLK1)

Prepared: 03/03/25 Analyzed: 03/03/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.5	70-130			

LCS (2510002-BS2)

Prepared: 03/03/25 Analyzed: 03/03/25

Gasoline Range Organics (C6-C10)	44.4	20.0	50.0		88.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		8.00		98.2	70-130			

LCS Dup (2510002-BSD2)

Prepared: 03/03/25 Analyzed: 03/03/25

Gasoline Range Organics (C6-C10)	46.5	20.0	50.0		93.0	70-130	4.67	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer Project Number: 24019-0001 Project Manager: Daniel Dominguez	Reported: 3/4/2025 1:05:57PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2510010-BLK1)

Prepared: 03/03/25 Analyzed: 03/03/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	52.0		50.0		104	61-141			

LCS (2510010-BS1)

Prepared: 03/03/25 Analyzed: 03/03/25

Diesel Range Organics (C10-C28)	253	25.0	250		101	66-144			
Surrogate: <i>n</i> -Nonane	51.4		50.0		103	61-141			

Matrix Spike (2510010-MS1)

Source: E502291-03

Prepared: 03/03/25 Analyzed: 03/03/25

Diesel Range Organics (C10-C28)	261	25.0	250	ND	104	56-156			
Surrogate: <i>n</i> -Nonane	53.4		50.0		107	61-141			

Matrix Spike Dup (2510010-MSD1)

Source: E502291-03

Prepared: 03/03/25 Analyzed: 03/03/25

Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	56-156	0.707	20	
Surrogate: <i>n</i> -Nonane	53.7		50.0		107	61-141			



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer Project Number: 24019-0001 Project Manager: Daniel Dominguez	Reported: 3/4/2025 1:05:57PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2510019-BLK1)

Prepared: 03/03/25 Analyzed: 03/03/25

Chloride	ND	20.0							
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LCS (2510019-BS1)

Prepared: 03/03/25 Analyzed: 03/03/25

Chloride	251	20.0	250		100	90-110			
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Matrix Spike (2510019-MS1)

Source: E502291-02

Prepared: 03/03/25 Analyzed: 03/03/25

Chloride	368	20.0	250	114	102	80-120			
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Matrix Spike Dup (2510019-MSD1)

Source: E502291-02

Prepared: 03/03/25 Analyzed: 03/03/25

Chloride	367	20.0	250	114	101	80-120	0.245	20	
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QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Select Water Solutions, LLC	Project Name:	Red Deer	
PO Box 1715	Project Number:	24019-0001	Reported:
Gainesville TX, 76241	Project Manager:	Daniel Dominguez	03/04/25 13:05

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client: Select Energy
 Project: Red Deer
 Project Manager: Daniel Dominguez
 Address: 4024 Plains Hwy
 City, State, Zip: Lovington, NM 88260, NM, 88260
 Phone: 575 393-3386
 Email: pm@hungry-horse.com
 Report due by:

Bill To
 Attention: Timsan Bricker
 Address: 1502 E Greene St.
 City, State, Zip: Carlsbad
 Phone: 515-200-7551
 Email: tbricker@selectwater.com

Lab Use Only
 Lab WO# E502291
 Job Number 24019-0001
TAT
 1D 2D 3D Standard
 X
EPA Program
 CWA SDWA
 RCRA

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	State					Remarks		
															NM	CO	UT	AZ	TX			
805	2/28/25	Soil	1	FL15	1.5'	1							X									
809	2/28/25	Soil	1	SW9	0-1.5'	2							X									
811	2/28/25	Soil	1	SW10	0-1.5'	3							X									
815	2/28/25	Soil	1	SW11	0-1.5'	4							X									
820	2/28/25	Soil	1	SW12	0-1.5'	5							X									

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. **Sampled by:** _____
 Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <i>Arny Heidecker</i>	Date <i>2-28-25</i>	Time <i>2:30 PM</i>	Received by: (Signature) <i>Michelle Gonzales</i>	Date <i>2-28-25</i>	Time <i>1400</i>	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C <i>4</i>
Relinquished by: (Signature) <i>Michelle Gonzales</i>	Date <i>2-28-25</i>	Time <i>1600</i>	Received by: (Signature) <i>L.M.</i>	Date <i>2-28-25</i>	Time <i>1700</i>	
Relinquished by: (Signature) <i>L.M.</i>	Date <i>2-28-25</i>	Time <i>2400</i>	Received by: (Signature) <i>Carth Mac</i>	Date <i>3-3-25</i>	Time <i>530</i>	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Released to Imaging: 3/30/2025 9:02:18 AM

Received by OGD: 3/1/2025 3:30:31 PM

Page 15 of 16

Page 383 of 406

Envirotech Analytical Laboratory

Printed: 3/3/2025 10:02:42AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Select Water Solutions, LLC Date Received: 03/03/25 05:30 Work Order ID: E502291
Phone: (575) 393-3386 Date Logged In: 02/28/25 15:37 Logged In By: Noe Soto
Email: pm@hungry-horse.com Due Date: 03/04/25 17:00 (1 day TAT)

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Carrier: courier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Comments/Resolution

Sampled by name not provided on COC.

Sample Turn Around Time (TAT)

- 6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

- 7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

- 14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

- 20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? No

Sample Preservation

- 21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

- 26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

- 28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Empty box for client instruction.

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Timsan Bricker



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Select Water Solutions, LLC

Project Name: Red Deer

Work Order: E504121

Job Number: 24019-0001

Received: 4/16/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/21/25

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.



Date Reported: 4/21/25

Timsan Bricker
PO Box 1715
Gainesville, TX 76241

Project Name: Red Deer
Workorder: E504121
Date Received: 4/16/2025 8:00:00AM

Timsan Bricker,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/16/2025 8:00:00AM, under the Project Name: Red Deer.

The analytical test results summarized in this report with the Project Name: Red Deer apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Sample Summary

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer Project Number: 24019-0001 Project Manager: Timsan Bricker	Reported: 04/21/25 08:55
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
R1	E504121-01A	Soil	04/14/25	04/16/25	Glass Jar, 2 oz.
R2	E504121-02A	Soil	04/14/25	04/16/25	Glass Jar, 2 oz.
R3	E504121-03A	Soil	04/14/25	04/16/25	Glass Jar, 2 oz.

Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer Project Number: 24019-0001 Project Manager: Timsan Bricker	Reported: 4/21/2025 8:55:02AM
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R1

E504121-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2516051
Benzene	ND	0.0250	1	04/16/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/16/25	04/16/25	
Toluene	ND	0.0250	1	04/16/25	04/16/25	
o-Xylene	ND	0.0250	1	04/16/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/16/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/16/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.4 %	70-130	04/16/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2516051
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.2 %	70-130	04/16/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2516057
Diesel Range Organics (C10-C28)	ND	25.0	1	04/16/25	04/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/16/25	04/17/25	
<i>Surrogate: n-Nonane</i>		107 %	61-141	04/16/25	04/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2516054
Chloride	27.7	20.0	1	04/16/25	04/16/25	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer Project Number: 24019-0001 Project Manager: Timsan Bricker	Reported: 4/21/2025 8:55:02AM
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R2

E504121-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2516051
Benzene	ND	0.0250	1	04/16/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/16/25	04/16/25	
Toluene	ND	0.0250	1	04/16/25	04/16/25	
o-Xylene	ND	0.0250	1	04/16/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/16/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/16/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.1 %	70-130	04/16/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2516051
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.3 %	70-130	04/16/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2516057
Diesel Range Organics (C10-C28)	ND	25.0	1	04/16/25	04/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/16/25	04/17/25	
<i>Surrogate: n-Nonane</i>		108 %	61-141	04/16/25	04/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2516054
Chloride	26.1	20.0	1	04/16/25	04/16/25	



Sample Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer Project Number: 24019-0001 Project Manager: Timsan Bricker	Reported: 4/21/2025 8:55:02AM
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R3

E504121-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2516051
Benzene	ND	0.0250	1	04/16/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/16/25	04/16/25	
Toluene	ND	0.0250	1	04/16/25	04/16/25	
o-Xylene	ND	0.0250	1	04/16/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/16/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/16/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.8 %	70-130	04/16/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2516051
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.5 %	70-130	04/16/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2516057
Diesel Range Organics (C10-C28)	ND	25.0	1	04/16/25	04/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/16/25	04/17/25	
<i>Surrogate: n-Nonane</i>		110 %	61-141	04/16/25	04/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2516054
Chloride	27.5	20.0	1	04/16/25	04/16/25	



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer Project Number: 24019-0001 Project Manager: Timsan Bricker	Reported: 4/21/2025 8:55:02AM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2516051-BLK1)

Prepared: 04/16/25 Analyzed: 04/16/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.4	70-130			

LCS (2516051-BS1)

Prepared: 04/16/25 Analyzed: 04/16/25

Benzene	4.53	0.0250	5.00		90.5	70-130			
Ethylbenzene	4.46	0.0250	5.00		89.2	70-130			
Toluene	4.50	0.0250	5.00		90.1	70-130			
o-Xylene	4.40	0.0250	5.00		88.0	70-130			
p,m-Xylene	8.91	0.0500	10.0		89.1	70-130			
Total Xylenes	13.3	0.0250	15.0		88.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.9	70-130			

Matrix Spike (2516051-MS1)

Source: E504119-05

Prepared: 04/16/25 Analyzed: 04/16/25

Benzene	4.55	0.0250	5.00	ND	91.1	70-130			
Ethylbenzene	4.50	0.0250	5.00	ND	89.9	70-130			
Toluene	4.54	0.0250	5.00	ND	90.8	70-130			
o-Xylene	4.44	0.0250	5.00	ND	88.8	70-130			
p,m-Xylene	8.97	0.0500	10.0	ND	89.7	70-130			
Total Xylenes	13.4	0.0250	15.0	ND	89.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130			

Matrix Spike Dup (2516051-MSD1)

Source: E504119-05

Prepared: 04/16/25 Analyzed: 04/16/25

Benzene	4.12	0.0250	5.00	ND	82.4	70-130	10.0	27	
Ethylbenzene	4.08	0.0250	5.00	ND	81.7	70-130	9.60	26	
Toluene	4.12	0.0250	5.00	ND	82.3	70-130	9.82	20	
o-Xylene	4.04	0.0250	5.00	ND	80.9	70-130	9.35	25	
p,m-Xylene	8.16	0.0500	10.0	ND	81.6	70-130	9.48	23	
Total Xylenes	12.2	0.0250	15.0	ND	81.3	70-130	9.44	26	
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.1	70-130			



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer Project Number: 24019-0001 Project Manager: Timsan Bricker	Reported: 4/21/2025 8:55:02AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2516051-BLK1)

Prepared: 04/16/25 Analyzed: 04/16/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		8.00		97.7	70-130			

LCS (2516051-BS2)

Prepared: 04/16/25 Analyzed: 04/16/25

Gasoline Range Organics (C6-C10)	49.2	20.0	50.0		98.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.96		8.00		99.5	70-130			

Matrix Spike (2516051-MS2)

Source: E504119-05

Prepared: 04/16/25 Analyzed: 04/17/25

Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND	99.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.21		8.00		103	70-130			

Matrix Spike Dup (2516051-MSD2)

Source: E504119-05

Prepared: 04/16/25 Analyzed: 04/16/25

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0	ND	86.7	70-130	13.6	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.01		8.00		100	70-130			



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer Project Number: 24019-0001 Project Manager: Timsan Bricker	Reported: 4/21/2025 8:55:02AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2516057-BLK1)

Prepared: 04/16/25 Analyzed: 04/16/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.2		50.0		104	61-141			

LCS (2516057-BS1)

Prepared: 04/16/25 Analyzed: 04/16/25

Diesel Range Organics (C10-C28)	280	25.0	250		112	66-144			
Surrogate: n-Nonane	52.5		50.0		105	61-141			

Matrix Spike (2516057-MS1)

Source: E504120-01

Prepared: 04/16/25 Analyzed: 04/16/25

Diesel Range Organics (C10-C28)	289	25.0	250	ND	116	56-156			
Surrogate: n-Nonane	54.2		50.0		108	61-141			

Matrix Spike Dup (2516057-MSD1)

Source: E504120-01

Prepared: 04/16/25 Analyzed: 04/16/25

Diesel Range Organics (C10-C28)	295	25.0	250	ND	118	56-156	1.85	20	
Surrogate: n-Nonane	54.1		50.0		108	61-141			



QC Summary Data

Select Water Solutions, LLC PO Box 1715 Gainesville TX, 76241	Project Name: Red Deer Project Number: 24019-0001 Project Manager: Timsan Bricker	Reported: 4/21/2025 8:55:02AM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2516054-BLK1)

Prepared: 04/16/25 Analyzed: 04/16/25

Chloride ND 20.0

LCS (2516054-BS1)

Prepared: 04/16/25 Analyzed: 04/16/25

Chloride 259 20.0 250 104 90-110

Matrix Spike (2516054-MS1)

Source: E504116-03

Prepared: 04/16/25 Analyzed: 04/16/25

Chloride 257 20.0 250 ND 103 80-120

Matrix Spike Dup (2516054-MSD1)

Source: E504116-03

Prepared: 04/16/25 Analyzed: 04/16/25

Chloride 256 20.0 250 ND 102 80-120 0.230 20

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Select Water Solutions, LLC	Project Name:	Red Deer	
PO Box 1715	Project Number:	24019-0001	Reported:
Gainesville TX, 76241	Project Manager:	Timsan Bricker	04/21/25 08:55

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Chain of Custody

Released to Imaging: 5/30/2025 9:02:18 AM

Received by OCD: 5/1/2025 3:30:31 PM

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Select				Company:				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: RED DEER				Address:				E504 121		24019.0001					X	X			
Project Manager: Timsan Bricker				City, State, Zip:															
Address: 1502 E Greene St				Phone:															
City, State, Zip: Carlsbad, NM 88220				Email:															
Phone: 5752007551				Miscellaneous:															
Email: tbricker@selectwater.com																			

Sample Information										Analysis and Method								EPA Program						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	Compliance	Y	or	N	PWSID #	Remarks	
9:00	4/14/2025	S	1	R1		1																		
9:05	4/14/2025	S	1	R2		2																		
9:10	4/14/2025	S	1	R3		3																		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: <u>TIMSAN BRICKER</u>										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.									
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>													
<i>Timsan Bricker</i>	4-15-25	10:50am	<i>Michelle Gonzales</i>	4-15-25	1050														
<i>Michelle Gonzales</i>	4-15-25	11:15	<i>[Signature]</i>	4-15-25	1613														
<i>[Signature]</i>	4-15-25	2:28pm	<i>Caitlin Mann</i>	4-16-25	800														
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time														

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Envirotech Analytical Laboratory

Printed: 4/16/2025 8:51:11AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Select Water Solutions, LLC	Date Received: 04/16/25 08:00	Work Order ID: E504121
Phone: (940) 668-1818	Date Logged In: 04/15/25 12:36	Logged In By: Caitlin Mars
Email: tbricker@selectwater.com	Due Date: 04/22/25 17:00 (4 day TAT)	

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
- 2. Does the number of samples per sampling site location match the COC? Yes
- 3. Were samples dropped off by client or carrier? Yes
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
- 5. Were all samples received within holding time? Yes

Carrier: courier

Note: Analysis, such as pH which should be conducted in the field, i.e. 15 minute hold time, are not included in this discussion.

Comments/Resolution

Sample Turn Around Time (TAT)

- 6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

- 7. Was a sample cooler received? Yes
- 8. If yes, was cooler received in good condition? Yes
- 9. Was the sample(s) received intact, i.e., not broken? Yes
- 10. Were custody/security seals present? No
- 11. If yes, were custody/security seals intact? NA
- 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

- 14. Are aqueous VOC samples present? No
- 15. Are VOC samples collected in VOA Vials? NA
- 16. Is the head space less than 6-8 mm (pea sized or less)? NA
- 17. Was a trip blank (TB) included for VOC analyses? NA
- 18. Are non-VOC samples collected in the correct containers? Yes
- 19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

- 20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

- 21. Does the COC or field labels indicate the samples were preserved? No
- 22. Are sample(s) correctly preserved? NA
- 24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

- 26. Does the sample have more than one phase, i.e., multiphase? No
- 27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

- 28. Are samples required to get sent to a subcontract laboratory? No
- 29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

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

QUESTIONS

Action 457763

QUESTIONS

Operator: SELECT WATER SOLUTIONS, LLC 1820 N I-35 Gainesville, TX 76240	OGRID: 289068
	Action Number: 457763
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2327650736
Incident Name	NAPP2327650736 RED DEER @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	RED DEER
Date Release Discovered	10/02/2023
Surface Owner	State

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pipeline (Any) Produced Water Released: 93 BBL Recovered: 0 BBL Lost: 93 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 457763

QUESTIONS (continued)

Operator: SELECT WATER SOLUTIONS, LLC 1820 N I-35 Gainesville, TX 76240	OGRID: 289068
	Action Number: 457763
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Timsan Bricker Title: ENV Coordinator Email: tbricker@selectwater.com Date: 05/01/2025
--	---

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QUESTIONS, Page 3

Action 457763

QUESTIONS (continued)

Operator: SELECT WATER SOLUTIONS, LLC 1820 N I-35 Gainesville, TX 76240	OGRID: 289068
	Action Number: 457763
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 200 and 300 (ft.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 200 and 300 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	8830
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	10/01/2024
On what date will (or did) the final sampling or liner inspection occur	04/15/2025
On what date will (or was) the remediation complete(d)	11/30/2024
What is the estimated surface area (in square feet) that will be reclaimed	5100
What is the estimated volume (in cubic yards) that will be reclaimed	1442
What is the estimated surface area (in square feet) that will be remediated	5100
What is the estimated volume (in cubic yards) that will be remediated	1442

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 457763

QUESTIONS (continued)

Operator: SELECT WATER SOLUTIONS, LLC 1820 N I-35 Gainesville, TX 76240	OGRID: 289068
	Action Number: 457763
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	GANDY MARLEY LANDFARM/LANDFILL [FEEM0112338393]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: Timsan Bricker Title: ENV Coordinator Email: tbricker@selectwater.com Date: 05/01/2025
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 457763

QUESTIONS (continued)

Operator: SELECT WATER SOLUTIONS, LLC 1820 N I-35 Gainesville, TX 76240	OGRID: 289068
	Action Number: 457763
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 457763

QUESTIONS (continued)

Operator: SELECT WATER SOLUTIONS, LLC 1820 N I-35 Gainesville, TX 76240	OGRID: 289068
	Action Number: 457763
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	445259
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/14/2025
What was the (estimated) number of samples that were to be gathered	3
What was the sampling surface area in square feet	435

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	6100
What was the total volume (cubic yards) remediated	612
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	6100
What was the total volume (in cubic yards) reclaimed	612
Summarize any additional remediation activities not included by answers (above)	All areas not reasonably needed for production were reseeded and contoured for erosion control.

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 (in .pdf format) 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.

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.

I hereby agree and sign off to the above statement	Name: Timsan Bricker Title: ENV Coordinator Email: tbricker@selectwater.com Date: 05/01/2025
--	---

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QUESTIONS, Page 7

Action 457763

QUESTIONS (continued)

Operator: SELECT WATER SOLUTIONS, LLC 1820 N I-35 Gainesville, TX 76240	OGRID: 289068
	Action Number: 457763
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 457763

CONDITIONS

Operator: SELECT WATER SOLUTIONS, LLC 1820 N I-35 Gainesville, TX 76240	OGRID: 289068
	Action Number: 457763
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2327650736 RED DEER, thank you. This Remediation Closure Report is approved.	5/30/2025