

CARMONA RESOURCES



SITE INFORMATION

Closure Report
Denton SWD System
Incident # NAPP2210333658
Lea County, New Mexico
Unit D Sec 13 T15S R37E
33.022389°, -103.160423°

Produced Water Release
Point of Release: Hole in pump
Release Date: 04/03/2022
Volume Released: 803 barrels of Produced Water
Volume Recovered: 760 barrels of Produced Water

CARMONA RESOURCES



Prepared for:
Fasken Oil and Ranch, Ltd
6101 Holiday Hill Road
Midland, TX 79707

Prepared by:
Carmona Resources, LLC
310 West Wall Street
Suite 415
Midland, Texas 79701

310 West Wall Street, Suite 415
Midland TX, 79701
432.813.1992

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June 15, 2022

New Mexico Oil Conservation Division
1220 South St, Francis Drive
Santa Fe, NM 87505

Re: Closure Report
Denton SWD System
Fasken Oil and Ranch, Ltd.
Site Location: Unit D, S13, T15S, R37E
(Lat 33.022389°, Long -103.160423°)
Lea County, New Mexico

To whom it may concern:

On behalf of Fasken Oil and Ranch, Ltd. (Fasken), Carmona Resource, LLC has prepared this document for activities at the Denton SWD System. The site is located at 33.022389°, -103.160423° within Unit D S13, T15S, R37E in Lea County, New Mexico (Figures 1 and 2).

1.0 Site information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the leak was discovered on April 3, 2022, due to a hole developing on the pump. It resulted in approximately 803 barrels of produced water, and 760 barrels of produced water were recovered. The area of concern is located on the pad and measures approximately 300' x 235', as shown in Figure 3. The initial C-141 form is attached in Appendix B.

2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there is one known water source within a 0.50-mile radius of the location. The nearest identified well is located approximately 0.35 miles Southwest of the site in S13, T15S, R74E and was drilled in 2020. The well has a reported depth to groundwater of 72 feet below ground surface (ft bgs). A copy of the associated Point of Diversion Summary report is attached in Appendix C.

3.0 NMAC Regulatory Criteria

Per the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria were utilized in assessing the site.

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 1,000 mg/kg (GRO + DRO).
- TPH: 2,500 mg/kg (GRO + DRO + MRO).
- Chloride: 10,000 mg/kg

4.0 Site Assessment Activities

On May 17, 2022, the area of concern was assessed via backhoe. A total of five backhoe sample points (BH-1 through BH-6), and four (4) horizontal sample points (H-1 through H-4) were installed to total depths ranging from surface to 1.0' ft below the surface. In addition, a background sample was also collected with a depth



from the surface to 0.5' below the office. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain of custody protocol to Eurofins in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports containing analytical methods, results, and chain-of-custody documents are attached in Appendix D. See Figure 3 for the sample locations.

All samples were below the regulatory limits and are summarized in Table 1.

5.0 Conclusions

Based on the assessment results and the analytical data, no further actions are required at the site. The final C-141 is attached, and Fasken Oil and Ranch, Ltd. (Fasken) formally request closure of the spill. If you have any questions regarding this report or need additional information, please get in touch with us at 432-813-1992.

Sincerely,

Carmona Resources, LLC

Mike Carmona
Environmental Manager

Conner Moehring
Sr. Project Manager

FIGURES

CARMONA RESOURCES



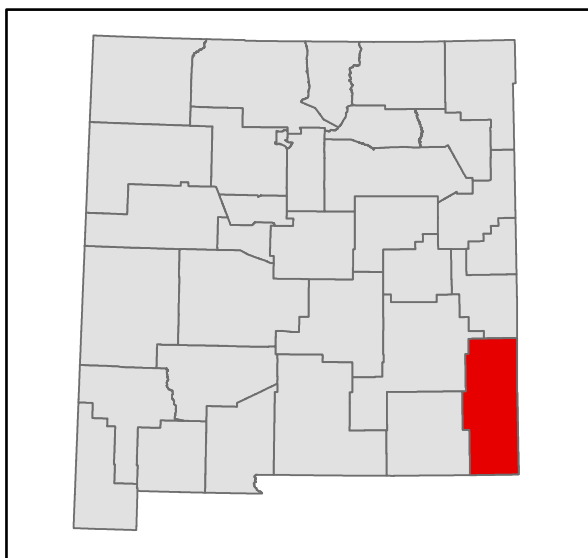
OVERVIEW MAP
FASKEN OIL AND RANCH
DENTON SWD SYSTEM
LEA COUNTY, NEW MEXICO
33.022389°, -103.160423°



0 5 10 20
Miles



Site Location

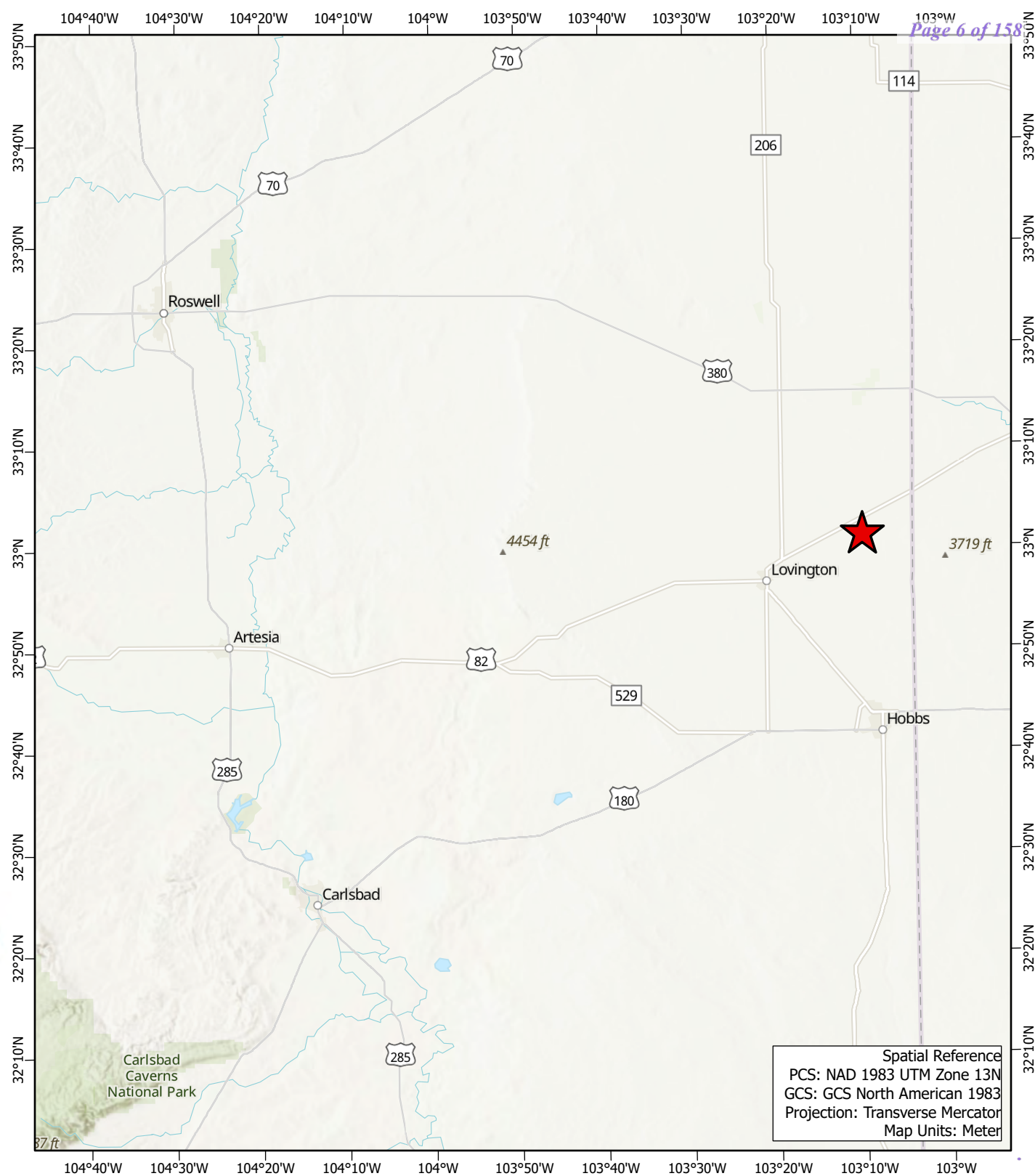


CARMONA RESOURCES



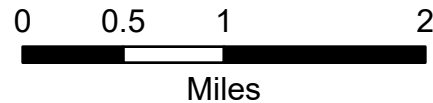
Carmona Resources
310 West Wall Street, Suite 415
Midland, Texas 79701

DRAWING NUMBER: Figure 1
SHEET NUMBER: 1 of 1

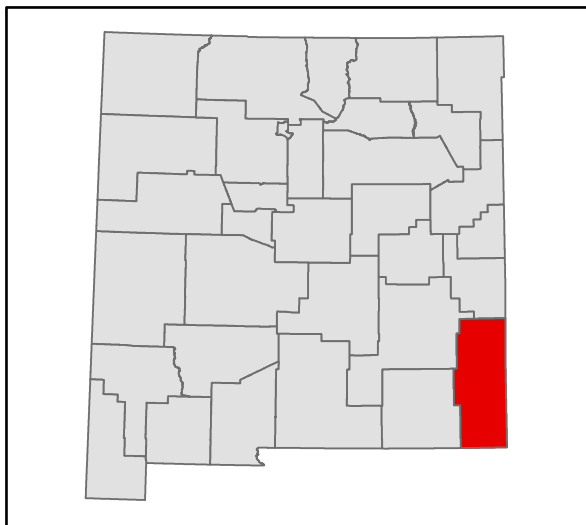


Spatial Reference
PCS: NAD 1983 UTM Zone 13N
GCS: GCS North American 1983
Projection: Transverse Mercator
Map Units: Meter

TOPOGRAPHIC MAP
FASKEN OIL AND RANCH
DENTON SWD SYSTEM
LEA COUNTY, NEW MEXICO
33.022389°, -103.160423°

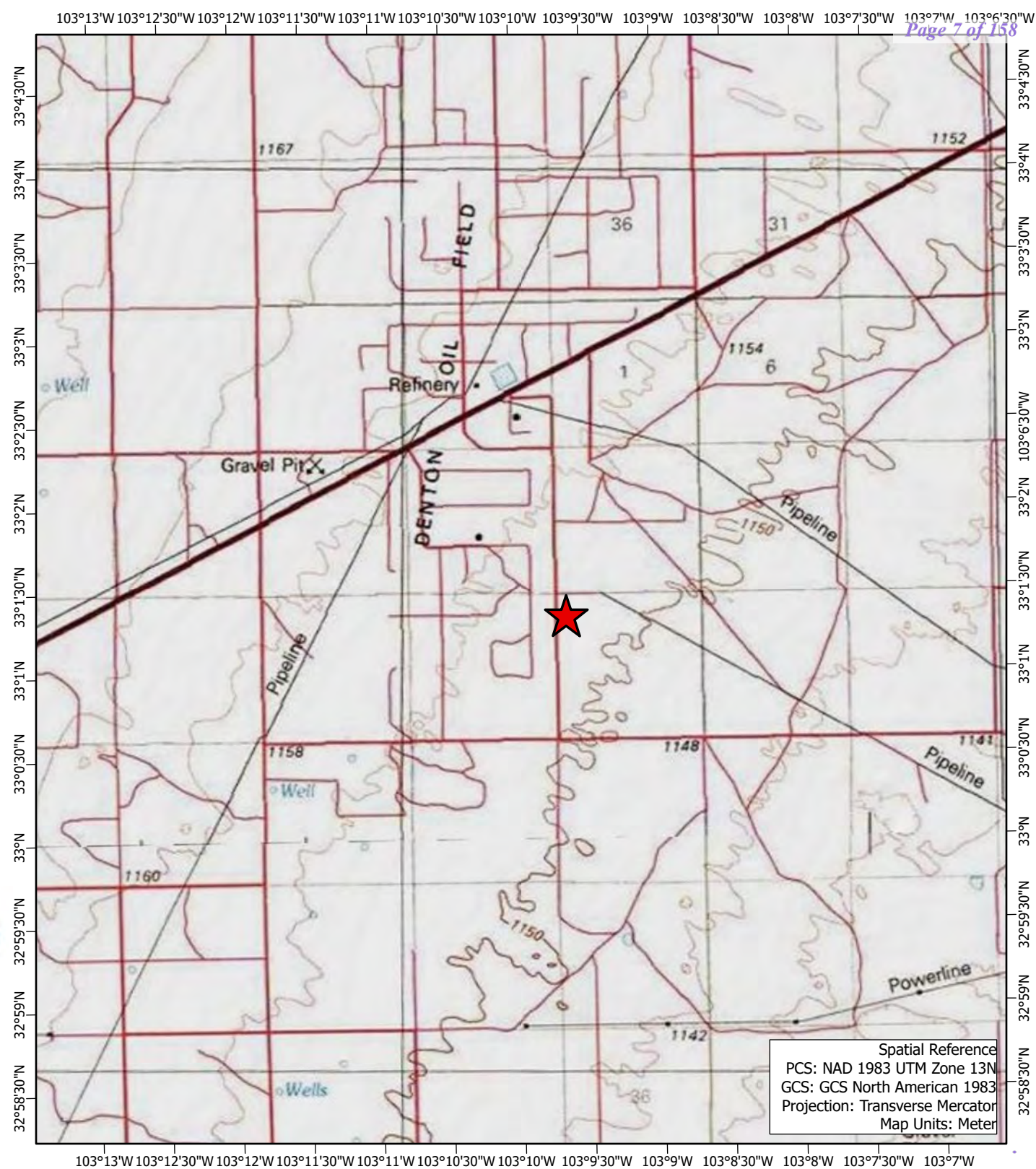


Site Location

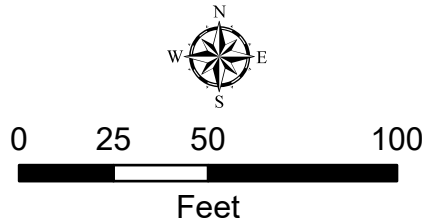


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DRAWING NUMBER: Figure 2
SHEET NUMBER: 1 of 1



SAMPLE LOCATION MAP
FASKEN OIL AND RANCH
 DENTON SWD SYSTEM
 LEA COUNTY, NEW MEXICO
 33.022389°, -103.160423°



Legend

- Backhoe Sample
- Horizontal Sample
- Background Sample

Area of Concern

Point of Release
 Spatial Reference

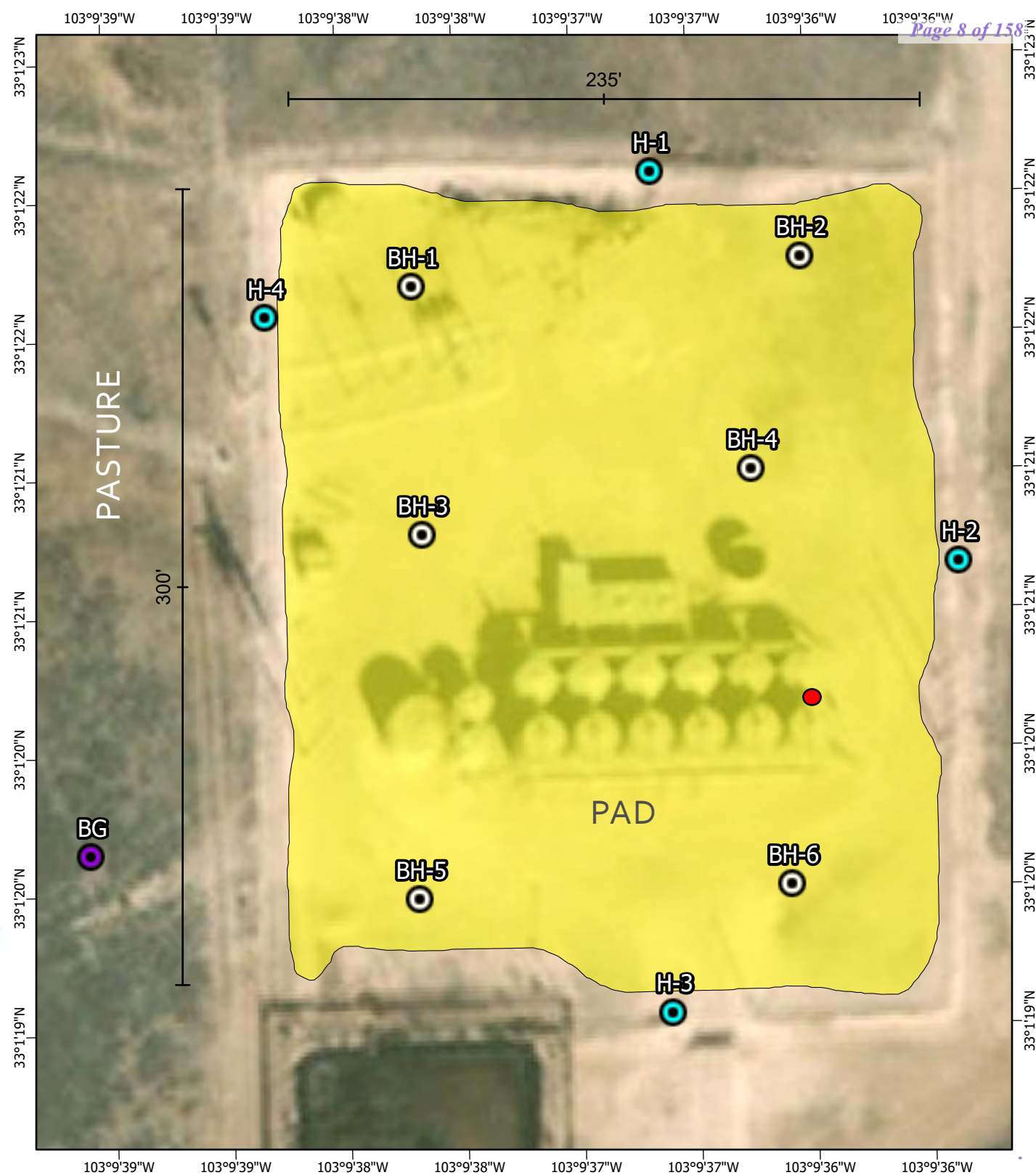
PCS: NAD 1983 UTM Zone 13N
 GCS: GCS North American 1983
 Projection: Transverse Mercator
 Map Units: Meter

Date Exported: 06/14/2022



Carmona Resources
 310 West Wall Street, Suite 415
 Midland, Texas 79701

DRAWING NUMBER: **Figure 3**
 SHEET NUMBER: **1 of 1**



APPENDIX A

CARMONA RESOURCES



Table 1
Fasken Oil and Ranch
Denton SWD System
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
BH-1	5/17/2022	0-0.5	<50.0	290	<50.0	290	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	1,580
	"	1.0	<50.0	500	<50.0	500	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,840
BH-2	5/17/2022	0-0.5	<49.9	93.8	<49.9	93.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	614
	"	1.0	<50.0	145	<50.0	145	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	2,500
BH-3	5/17/2022	0-0.5	<49.9	122	<49.9	122	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	8,410
	"	1.0	<49.9	371	<49.9	371	0.207	<0.0504	<0.0504	<0.101	0.207	1,920
BH-4	5/17/2022	0-0.5	<49.8	184	<49.8	184	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	5,390
	"	1.0	<50.0	79.3	<50.0	79.3	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	3,530
BH-5	5/17/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	66.9
	"	1.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	118
BH-6	5/17/2022	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	283
	"	1.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	9,140
H-1	5/17/2022	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	32.8
H-2	5/17/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	387
H-3	5/17/2022	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	300
H-4	5/17/2022	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	101
BG	5/17/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	96.7
Regulatory Criteria^A			1,000 mg/kg		-	2,500 mg/kg	10 mg/kg	-	-	-	50 mg/kg	10,000 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(H) Horizontal

(BH) Backhoe Sample

(BG) Background

APPENDIX B

CARMONA RESOURCES



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

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

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

Incident ID	nAPP2210333658
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Fasken Oil and Ranch, Ltd.	OGRID	151416
Contact Name	Grant Huckabay	Contact Telephone	432-687-1777
Contact email	granth@forl.com	Incident # (assigned by OCD)	nAPP2210333658
Contact mailing address	6101 Holiday Hill Road, Midland TX 79707		

Location of Release Source

Latitude 33.022389 Longitude -103.160423
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Denton SWD System	Site Type	Salt Water Disposal
Date Release Discovered	4/3/2022	API# (if applicable)	

Unit Letter	Section	Township	Range	County
D	13	15S	37E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Darr Angel)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 803	Volume Recovered (bbls) 760
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Pump had a hole in it, leaking out overnight.

Form C-141

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	NAPP2210333658
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? It was an unauthorized release of more than 25 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, by Grant Huckabay to ocd.enviro@state.nm.us by e-mail on 4/3/22.	

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. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Addison Guelker</u>	Title: <u>Environmental Tech</u>
Signature: <u></u>	Date: <u>4/12/22</u>
email: <u>addisong@forl.com</u>	Telephone: <u>432-687-1777</u>
<u>OCD Only</u> Received by: <u>Jocelyn Harimon</u> Date: _____	

***** LIQUID SPILLS - VOLUME CALCULATIONS *****

Location of spill: Denton SWD System

Date of Spill: 4/3/2022

If the leak/spill is associated with production equipment, i.e. - wellhead, stuffing box, flowline, tank battery, production vessel, transfer pump, or storage tank place an "X" here: ☒

Input Data:

If spill volumes from measurement, i.e. metering, tank volumes, etc. are known enter the volumes here: OIL: 0.0 BBL WATER: 0.0 BBL

If "known" spill volumes are given, input data for the following "Area Calculations" is optional. The above will override the calculated volumes.

Total Area Calculations							Standing Liquid Calculations										
Total Surface Area		width	length	wet soil			Standing Liquid Area		width	length	liquid depth	oil (%)					
				depth	oil (%)												
Rectangle Area #1	280	ft	230	ft	X	6.00	in	0%	Rectangle Area #1	0	ft	X	0	in	0%		
Rectangle Area #2		ft	X		ft	X		in	0%	Rectangle Area #2	0	ft	X		0	in	0%
Rectangle Area #3		ft	X		ft	X		in	0%	Rectangle Area #3	0	ft	X		0	in	0%
Rectangle Area #4		ft	X		ft	X		in	0%	Rectangle Area #4	0	ft	X		0	in	0%
Rectangle Area #5		ft	X		ft	X		in	0%	Rectangle Area #5	0	ft	X		0	in	0%
Rectangle Area #6		ft	X		ft	X		in	0%	Rectangle Area #6	0	ft	X		0	in	0%
Rectangle Area #7		ft	X		ft	X		in	0%	Rectangle Area #7	0	ft	X		0	in	0%
Rectangle Area #8		ft	X		ft	X		in	0%	Rectangle Area #8	0	ft	X		0	in	0%

okay

production system leak - DAILY PRODUCTION DATA REQUIRED

Average Daily Production: Oil 0 BBL Water 0 BBL 0 Gas (MCFD)

Total Hydrocarbon Content in gas: 0% (percentage)

Did leak occur before the separator?: ☒ YES ☒ N/A (place an "X")

H2S Content in Produced Gas: 0 PPM

H2S Content in Tank Vapors: 0 PPM

Amount of Free Liquid Recovered: 0 BBL okay

Percentage of Oil in Free Liquid Recovered: 0% (percentage)

Liquid holding factor *: 0.14 gal per gal

Use the following when the spill wets the grains of the soil.

* Sand = 0.08 gallon (gal.) liquid per gal. volume of soil.

* Gravelly (caliche) loam = 0.14 gal. liquid per gal. volume of soil.

* Sandy clay loam soil = 0.14 gal liquid per gal. volume of soil.

* Clay loam = 0.16 gal. liquid per gal. volume of soil.

Use the following when the liquid completely fills the pore space of the soil:

Occurs when the spill soaked soil is contained by barriers, natural (or not).

* Clay loam = 0.20 gal. liquid per gal. volume of soil.

* Gravelly (caliche) loam = 0.25 gal. liquid per gal. volume of soil.

* Sandy loam = 0.5 gal. liquid per gal. volume of soil.

Total Solid/Liquid Volume: 64,400 sq. ft.	32,200 cu. ft.	cu. ft.	Total Free Liquid Volume: sq. ft.	cu. ft.	cu. ft.
Estimated Volumes Spilled			Estimated Production Volumes Lost		
Liquid in Soil:	H2O 802.9 BBL	OIL 0.0 BBL	Estimated Production Spilled:	H2O 0.0 BBL	OIL 0.0 BBL
Free Liquid:	0.0 BBL	0.0 BBL			
Totals:	802.9 BBL	0.0 BBL			
Estimated Surface Damage			Estimated Surface Damage		
Total Liquid Spill Liquid:	802.9 BBL	0.00 BBL	Surface Area: 64,400 sq. ft.		
			Surface Area: 1.4784 acre		
Recovered Volumes			Estimated Weights, and Volumes		
Estimated oil recovered:	BBL	check - okay	Saturated Soil =	3,606,400 lbs	32,200 cu. ft.
Estimated water recovered:	BBL	check - okay	Total Liquid =	803 BBL	33,720 gallon
					1,193 cu. yds.
					280,549 lbs

Air Emission from flowline leaks:

Volume of oil spill: - BBL
 Separator gas calculated: - MCF
 Separator gas released: - MCF
 Gas released from oil: - lb
 H2S released: - lb
 Total HC gas released: - lb
 Total HC gas released: - MCF

Air Emission of Reporting Requirements:

New Mexico
 HC gas release reportable? NO
 H2S release reportable? NO
 Texas
 NO
 NO

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 98159

CONDITIONS

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 98159
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	4/13/2022

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

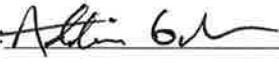
State of New Mexico
Oil Conservation Division

Incident ID	NAPP2210333658
District RP	
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Addison Guelker

Title: Environmental Tech

Signature: 

Date: 6/27/22

email: addisong@forl.com

Telephone: 432-687-1777

OCD Only

Received by: _____

Date: _____

Incident ID	NAPP2210333658
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Addison Guelker

Title: Environmental Tech

Signature: 

Date: 6/27/22

email: addisong@forl.com

Telephone: 432-687-1777

OCD Only

Received by: _____

Date: _____

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

Closure Approved by: 

Date: 07/08/2022

Printed Name: Jennifer Nobui

Title: Environmental Specialist A

APPENDIX C

CARMONA RESOURCES

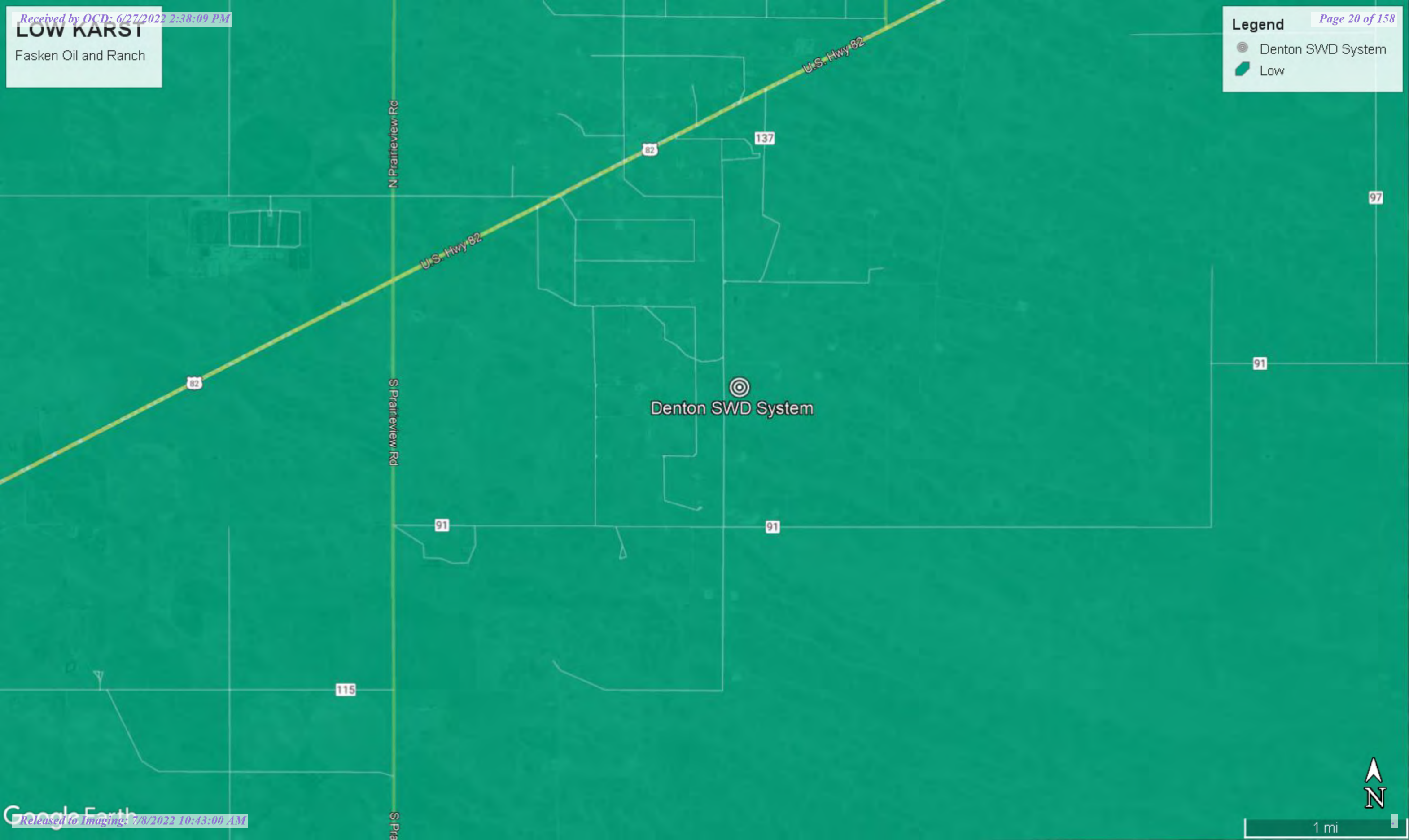


LOW KARST

Fasken Oil and Ranch

Legend

- Denton SWD System
- Low



1 mi

Nearest water well

Fasken Oil and Ranch

Legend

- 0.35 Miles
- 0.50 Mile Radius
- 0.53 Miles
- Denton SWD System
- NMSEO Water Well
- USGS Water Well





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD														
		Sub-	Q Q Q									Depth	Depth	Water
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	Well	Water	Column
L 00058		L	LE			2	10	15S	37E	669598	3656694*		112	
L 00059		L	LE	3	1	3	10	15S	37E	668503	3655575		100	
L 00059 S		L	LE		3	3	10	15S	37E	668604	3655676		150	49 101
L 00064		L	LE			3	22	15S	37E	668864	3652657*		105	
L 00064	R	L	LE			3	22	15S	37E	668864	3652657*		105	
L 00165		L	LE	1	1	1	27	15S	37E	668569	3652153*		126	50 76
L 00165 POD2		L	LE		2	1	27	15S	37E	669074	3652060*		203	85 118
L 00168		L	LE	1	1	3	19	15S	37E	663722	3652882		150	60 90
L 00185		L	LE	3	3	1	27	15S	37E	668577	3651550*		111	68 43
L 00216 POD2	R	L	LE	3	2	3	06	15S	37E	664037	3657516*		112	
L 00216 POD3	R	L	LE				07	15S	37E	664379	3656202*		117	96 21
L 00216 POD4		L	LE	3	2	3	06	15S	37E	663597	3657023		207	120 87
L 00222		L	LE	1	3	1	22	15S	37E	668547	3653360*		125	80 45
L 00222 S		L	LE	3	1	3	22	15S	37E	668555	3652758*		125	80 45
L 00232		L	LE	1	3	4	34	15S	37E	669428	3649347*		122	
L 00284		L	LE	1	2	3	17	15S	37E	665704	3654524*		193	79 114
L 00285		L	LE	1	2	2	21	15S	37E	668137	3653757*		105	49 56
L 00285 S		L	LE	1	2	4	21	15S	37E	668151	3652952*		118	118 0
L 00286		L	LE	2	1	1	20	15S	37E	666388	3654325		270	90 180
L 00310		L	LE	1	2	2	27	15S	37E	669779	3652171*		140	72 68
L 00318		L	LE	2	2	4	19	15S	37E	665128	3652901*		110	45 65
L 00318 S		L	LE	1	1	2	19	15S	37E	664127	3654336		260	80 180
L 00446		L	LE		1	2	28	15S	37E	667864	3652042*		114	54 60
L 00446 S		L	LE		3	2	28	15S	37E	668188	3650894		230	100 130
L 00456		L	LE	3	3	1	34	15S	37E	668607	3649940*		116	70 46
L 00459	R	L	LE	3	1	2	34	15S	37E	669405	3650355*		140	

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(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
L 00459 POD4	L	LE		3	1	2	34	15S	37E	669339	3650589	241	110	131
L 00459 S	R	L	LE	1	1	2	34	15S	37E	669405	3650555*	146	67	79
L 00488	L	LE		1	2	2	20	15S	37E	666524	3653732*	120		
L 00488 POD2	L	LE		1	2	4	29	15S	37E	666568	3651317*	180	65	115
L 00488 S	L	LE		1	1	4	20	15S	37E	666136	3652921*	126		
L 00553	L	LE			1	1	05	15S	37E	665331	3658442*	202	110	92
L 00553 S	L	LE		1	1	3	05	15S	37E	665244	3657736*	215	90	125
L 00555 POD3	L	LE				4	04	15S	37E	667969	3657475*	187	90	97
L 00555 POD4	L	LE				4	04	15S	37E	667969	3657475*	187	90	97
L 00555 POD5	L	LE		4	1	1	09	15S	37E	667069	3656759	195	65	130
L 00555 POD6	L	LE		4	1	1	09	15S	37E	667069	3656759	208	75	133
L 00555 POD6	R	L	LE	4	1	1	09	15S	37E	667069	3656759	208	75	133
L 00555 POD7	L	LE		1	3	4	04	15S	37E	667667	3657373*	200	100	100
L 00555 S	R	L	LE	1	1	2	04	15S	37E	667645	3658581*	125		
L 00556	R	L	LE		1	4	05	15S	37E	666150	3657651*	115		
L 00556 POD3	L	LE		4	1	3	09	15S	37E	667083	3655954*	199	75	124
L 00556 POD4	L	LE		4	4	1	09	15S	37E	667479	3656363	199	75	124
L 00556 POD5	R	L	LE	4	1	3	04	15S	37E	667054	3657564*	210	90	120
L 00556 POD6	R	L	LE	3	1	4	04	15S	37E	667660	3657576*	215	90	125
L 00556 POD8	R	L	LE	3	4	3	04	15S	37E	667354	3657087	200		
L 00556 S	R	L	LE	3	4	3	05	15S	37E	665654	3657140*	120		
L 00565	L	LE		1	1	4	32	15S	37E	666195	3649701*	97		
L 00566	L	LE		1	1	2	32	15S	37E	666180	3650506*	109		
L 00597	L	LE		1	1	1	33	15S	37E	666986	3650518*	125		
L 00597 S	L	LE		1	1	2	33	15S	37E	667793	3650530*	100		
L 00598	R	L	LE		1	3	33	15S	37E	667102	3649615*	125		
L 00598 POD3	L	LE		1	1	3	33	15S	37E	667001	3649714*	127	118	9
L 00598 S	L	LE		1	3	4	33	15S	37E	667816	3649322*	100		
L 00599	R	L	LE				31	15S	37E	664487	3649766*	107		

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(In feet)

POD Number	POD		Q Q Q							X	Y	Depth Well	Depth Water	Water Column	
	Sub-Code	basin	County	64	16	4	Sec	Tws	Rng						
L 00599 POD4		L	LE	1	4	3	30	15S	37E	664159	3650877*		195	191	4
L 00599 POD5		L	LE	3	2	4	31	15S	37E	664985	3649482*		193	191	2
L 00599 POD6		L	LE	2	2	4	31	15S	37E	665288	3649041		235	120	115
L 00599 POD7		L	LE	1	2	1	31	15S	37E	664120	3650593		235	95	140
L 00599 S	R	L	LE			3	30	15S	37E	664058	3650972*		100	44	56
L 00599 S2		L	LE			4	31	15S	37E	664891	3649376*		198	98	100
L 00610 POD4	R	L	LE	4	2	3	02	15S	37E	670687	3657616*		120	37	83
L 00610 POD5		L	LE	1	1	4	02	15S	37E	670890	3657821*		120	37	83
L 00706		L	LE	1	1	2	09	15S	37E	667675	3656971*		125		
L 00706 POD2		L	LE		1	4	09	15S	37E	667791	3656067*		100		
L 00706 POD7		L	LE	1	2	2	09	15S	37E	667222	3657454		200		
L 00707	R	L	LE	1	3	2	09	15S	37E	667682	3656568*		269	110	159
L 00708		L	LE	1	3	4	09	15S	37E	667701	3655857		103	65	38
L 00708		L	LE	1	3	4	09	15S	37E	667701	3655857		103	65	38
L 00735		L	LE	1	1	2	22	15S	37E	669347	3653775*		119	33	86
L 00735 S		L	LE	1	3	2	22	15S	37E	669354	3653372*		150	45	105
L 00736	R	L	LE	2	1	1	23	15S	37E	670354	3653787*		122		
L 00736		L	LE	2	1	1	23	15S	37E	670354	3653787*		122		
L 00746		L	LE	1	1	1	29	15S	37E	665345	3652103*		244	110	134
L 00747		L	LE	1	1	1	28	15S	37E	666957	3652128*		271	110	161
L 00759		L	LE	1	1	3	28	15S	37E	666971	3651323*		160	73	87
L 00759 S		L	LE		2	3	28	15S	37E	667476	3651230*		166	73	93
L 00759 S2		L	LE			4	28	15S	37E	668087	3651035*		177	98	79
L 00759 S3		L	LE	1	1	4	28	15S	37E	667778	3651336*		160	73	87
L 00759 S4		L	LE	3	1	3	28	15S	37E	666911	3651065		221	120	101
L 00759 S5		L	LE	4	4	4	28	15S	37E	668340	3650720		230	110	120
L 00819		L	LE	1	1	2	08	15S	37E	666064	3656945*		110	42	68
L 00819	R	L	LE	1	1	2	08	15S	37E	666064	3656945*		110	42	68
L 00819 S	R	L	LE	3	1	2	08	15S	37E	666064	3656745*		112	42	70

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(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
L 00821	R	L	LE				06	15S	37E	664351	3657812*	110		
L 00821 POD2		L	LE	1	1	2	06	15S	37E	664426	3658527*	195	82	113
L 00822		L	LE	3	1	4	06	15S	37E	664440	3657523*	104	80	24
L 00956 POD1		L	LE		2	2	15	15S	37E	669823	3655292*	112		
L 00994 POD1		L	LE	3	3	1	27	15S	37E	668577	3651550*	77		
L 01009 POD1		L	LE	4	4	3	28	15S	37E	667582	3650727*	100		
L 01045		L	LE	1	3	2	14	15S	37E	670939	3655004*	100	35	65
L 01067		L	LE	4	3	4	06	15S	37E	664647	3657120*			
L 01068		L	LE	4	3	3	05	15S	37E	665451	3657133*	75	53	22
L 01077		L	LE		1	1	12	15S	37E	671811	3656927*	120		
L 01080		L	LE	1	2	2	14	15S	37E	671336	3655412*	120	32	88
L 01095		L	LE		4	1	02	15S	37E	670581	3658120*	120		
L 01110 POD1		L	LE	1	1	2	14	15S	37E	670932	3655407*	115		
L 01117 POD1		L	LE	3	4	2	11	15S	37E	671314	3656419*	120	50	70
L 01118 POD1		L	LE		3	1	02	15S	37E	670178	3658115*	108		
L 01119 POD1		L	LE		3	3	04	15S	37E	666962	3657263*	108		
L 01136 POD1		L	LE		1	4	02	15S	37E	670991	3657722*	118		
L 01160 POD1		L	LE		2	2	04	15S	37E	668149	3658488*	150	50	100
L 01175 POD1		L	LE		1	3	01	15S	37E	671797	3657732*	120	33	87
L 01176 POD1		L	LE			1	04	15S	37E	667149	3658269*	65	35	30
L 01182 POD1		L	LE	1	1	1	11	15S	37E	670096	3657007*	110	35	75
L 01197 POD1		L	LE	3	1	3	02	15S	37E	670083	3657612*	112		
L 01199 POD1		L	LE	2	4	1	14	15S	37E	670736	3654999*	121	37	84
L 01204 POD1		L	LE	3	4	2	02	15S	37E	671286	3658028*	100	40	60
L 01207 POD1		L	LE		2	2	15	15S	37E	669823	3655292*	120	32	88
L 01224 POD1		L	LE		1	1	02	15S	37E	670172	3658517*	115	33	82
L 01237		L	LE		2	2	15	15S	37E	669823	3655292*	110	38	72
L 01283		L	LE		3	2	11	15S	37E	671012	3656515*	120	40	80
L 01284		L	LE		1	2	02	15S	37E	670978	3658527*	108	48	60

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(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
L 01285	L	LE		2	2	02	15S	37E		671380	3658531*	112	52	60
L 01293	L	LE		2	2	03	15S	37E		669767	3658511*	113	45	68
L 01297	L	LE		3	1	01	15S	37E		671790	3658134*	115	45	70
L 01320	L	LE		3	4	11	15S	37E		671026	3655710*	120	32	88
L 01321	L	LE		4	2	11	15S	37E		671415	3656520*	120	32	88
L 01322	L	LE		2	1	11	15S	37E		670296	3657007*	120	32	88
L 01323	L	LE		4	2	11	15S	37E		671415	3656520*	120	32	88
L 01324	L	LE		1	2	11	15S	37E		671004	3656917*	120	32	88
L 01332	L	LE		2	2	11	15S	37E		671408	3656922*	115	32	83
L 01337	L	LE		2	3	105	15S	37E		665437	3658138*	65	47	18
L 01376	L	LE		3	2	131	15S	37E		664166	3650275*	90	35	55
L 01379	L	LE		2	2	34	15S	37E		669909	3650462*	120	32	88
L 01422	L	LE		3	3	02	15S	37E		670190	3657310*	100		
L 01430	L	LE		2	1	11	15S	37E		670601	3656913*	120	33	87
L 01447	L	LE		1	1	01	15S	37E		671783	3658536*	113	45	68
L 01491	L	LE		3	1	01	15S	37E		671790	3658134*	117	45	72
L 01568 POD1	L	LE		1	3	12	15S	37E		671826	3656122*	120	38	82
L 01578 POD1	L	LE		2	2	403	15S	37E		669879	3657806*	115	55	60
L 01587 POD1	L	LE		2	1	01	15S	37E		672186	3658542*	115	55	60
L 01637 POD1	L	LE		1	1	301	15S	37E		671696	3657831*	109	50	59
L 01673 POD1	L	LE		4	3	02	15S	37E		670594	3657315*	120		
L 01739 POD1	L	LE		2	2	210	15S	37E		669893	3657001*	110	55	55
L 01808 POD1	L	LE		4	3	09	15S	37E		667395	3655658*	80	40	40
L 01997	L	LE		1	4	03	15S	37E		669375	3657701*	120	33	87
L 02268	L	LE		2	4	10	15S	37E		669808	3656097*		55	
L 02302	L	LE		2	2	411	15S	37E		671521	3656216*	80	45	35
L 02303	L	LE		2	2	416	15S	37E		668322	3654562*	80	45	35
L 02317	L	LE		1	1	11	15S	37E		670197	3656908*	110	65	45
L 02382	L	LE		4	2	14	15S	37E		671444	3654911*	112	35	77

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(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
L 02391	L	LE		3	3	3	11	15S	37E	670118	3655599*	80	37	43
L 02399	L	LE		2	2	20		15S	37E	666625	3653633*	80	42	38
L 02468	L	LE		2	4	22		15S	37E	669866	3652877*	100	40	60
L 02920	L	LE		4	4	3	06	15S	37E	664298	3657035	208	90	118
L 03099	L	LE		3	3	36		15S	37E	671944	3649285*	120	55	65
L 03207	L	LE		1	3	36		15S	37E	671937	3649687*	105	35	70
L 03240	L	LE		2	4	35		15S	37E	671534	3649681*	120	45	75
L 03316	L	LE		2	3	36		15S	37E	672340	3649694*	124	35	89
L 03781	L	LE		1	1	1	20	15S	37E	665316	3653712*	180		
L 03929	L	LE		1	4	1	01	15S	37E	672092	3658239*	100	55	45
L 03987	L	LE		2	2	07		15S	37E	664957	3656826*	102	86	16
L 04175	L	LE					34	15S	37E	669327	3649838*	100	80	20
L 04200	L	LE		3	3	34		15S	37E	668724	3649235*			
L 04472	L	LE		2	2	08		15S	37E	666567	3656853*	90	80	10
L 04512	L	LE		2	2	04		15S	37E	668149	3658488*	120	45	75
L 04550	L	LE		3	3	18		15S	37E	663804	3653990*	95	52	43
L 04655	L	LE		1	1	3	34	15S	37E	668615	3649737*	95	56	39
L 04956	L	LE		1	1	1	12	15S	37E	671710	3657026*	100	43	57
L 05242	L	LE			4	19		15S	37E	664835	3652595*	125	80	45
L 05331	L	LE		2	1	27		15S	37E	669074	3652060*	100	60	40
L 05337	L	LE		1	4	09		15S	37E	667791	3656067*	100	85	15
L 05403	L	LE		4	4	05		15S	37E	666560	3657255*	100	85	15
L 05455	L	LE		4	3	1	36	15S	37E	672030	3649988*	125	70	55
L 05484	L	LE		2	1	1	20	15S	37E	665516	3653712*	180		
L 05541	L	LE		1	1	25		15S	37E	671897	3652100*	115	40	75
L 05587 POD2	L	LE		1	1	4	27	15S	37E	669337	3651445	190	100	90
L 05825	L	LE		1	4	22		15S	37E	669462	3652871*	148	45	103
L 05825 S	L	LE		1	4	1	26	15S	37E	670593	3651780*	130	60	70
L 05825 S2	L	LE			4	22		15S	37E	669671	3652669*	160	40	120

*UTM location was derived from PLSS - see Help

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD		Q Q Q							X	Y	Depth Well	Depth Water	Water Column	
	Sub-Code	basin	County	64	16	4	Sec	Tws	Rng						
L 05956	L	LE	3	3	18	15S	37E	663804	3653990*		108	65	43		
L 05957	L	LE	2	1	18	15S	37E	664182	3655203*		110	65	45		
L 06625	L	LE	3	2	2	12	15S	37E	672920	3656845*		130	80	50	
L 06782	L	LE		3	22	15S	37E	668864	3652657*						
L 07054	L	LE	4	1	1	22	15S	37E	668740	3653563*		142	60	82	
L 07164	L	LE		3	20	15S	37E	665640	3652608*		120	71	49		
L 07198	L	LE	4	2	3	02	15S	37E	670687	3657616*		125	47	78	
L 07437	L	LE	4	3	3	21	15S	37E	667149	3652331*		120	73	47	
L 07456	L	LE	2	2	3	36	15S	37E	672439	3649793*		126	32	94	
L 07579	L	LE	2	2	4	27	15S	37E	669994	3651366*			44		
L 07592	R	L	LE	2	4	09	15S	37E	668194	3656073*		100	70	30	
L 07610	L	LE	3	2	11	15S	37E	671012	3656515*		100				
L 07613	L	LE			23	15S	37E	670879	3653083*		96	45	51		
L 07633	L	LE	4	4	4	29	15S	37E	666776	3650715*		110	65	45	
L 07633	R	L	LE	4	4	4	29	15S	37E	666776	3650715*		110	65	45
L 07665	L	LE	4	4	4	11	15S	37E	671529	3655614*		126	40	86	
L 07666	L	LE	4	4	2	27	15S	37E	669986	3651568*		126	60	66	
L 07953	L	LE	3	4	1	15	15S	37E	668921	3654776*		100	68	32	
L 07981	L	LE	4	4	1	26	15S	37E	670793	3651580*		142	70	72	
L 08060 POD3	L	LE	2	2	1	28	15S	37E	667551	3652207		162	84	78	
L 08123 POD1	L	LE			28	15S	37E	667683	3651425*		120	82	38		
L 08123 POD2	L	LE			28	15S	37E	667683	3651425*		120	82	38		
L 08411	L	LE	3	1	1	34	15S	37E	668600	3650342*		105			
L 08489	L	LE	4	2	18	15S	37E	664993	3654814*		116	73	43		
L 08593	L	LE	4	2	18	15S	37E	664993	3654814*		120	80	40		
L 08594	L	LE	3	1	3	03	15S	37E	668466	3657588*		150	90	60	
L 08598	L	LE	3	1	3	03	15S	37E	668466	3657588*		150	90	60	
L 09678	L	LE	3	4	06	15S	37E	664548	3657221*		150	110	40		
L 09820	L	LE	2	2	07	15S	37E	664957	3656826*		100	60	40		

*UTM location was derived from PLSS - see Help

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POD suffix indicates the
POD has been replaced
& no longer serves a
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(R=POD has
been replaced,
O=orphaned,
C=the file is
closed)

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
L 09926	L	LE		1	1	4	12	15S	37E	672433	3656142	150	75	75
L 10026	L	LE		3	4	2	22	15S	37E	669757	3653178*	150	65	85
L 10220	L	LE		4	2	34		15S	37E	669916	3650059*	95	58	37
L 10410	L	LE		4	4	17		15S	37E	666618	3654035*	115	76	39
L 10541	L	LE		4	4	3	09	15S	37E	667494	3655557*	240		
L 10617	L	LE		3	1	4	28	15S	37E	667778	3651136*	188	65	123
L 10625	L	LE		4	4	4	29	15S	37E	666776	3650715*	120	60	60
L 10685	L	LE		2	3	02		15S	37E	670588	3657717*	150	84	66
L 11007	R	L	LE		4	09		15S	37E	667954	3655664	130	75	55
L 11105	L	LE		1	1	09		15S	37E	666970	3656860*	200	82	118
L 12181 POD1	L	LE		3	2	3	29	15S	37E	665768	3651095	215		
L 12299 POD1	L	LE		4	4	4	29	15S	37E	666684	3650778	197		
L 12602 POD1	L	LE		3	1	1	04	15S	37E	666772	3658334	195		
L 13024 POD1	L	LE		1	1	1	20	15S	37E	665287	3653733	182	97	85
L 13186 POD1	L	LE		2	4	4	20	15S	37E	666812	3652567	210		
L 13284 POD1	L	LE		4	3	3	21	15S	37E	667060	3652283	210	90	120
L 13285 POD1	L	LE		2	4	4	08	15S	37E	666751	3655811	200	90	110
L 13485 POD 1	L	LE		3	4	2	10	15S	37E	669192	3655778	180	103	77
L 13564 POD1	L	LE		2	2	1	01	15S	37E	672315	3658559	270	95	175
L 13629 POD10	L	LE		2	1	2	11	15S	37E	671037	3657002	90	70	20
L 13629 POD11	L	LE		2	1	2	11	15S	37E	671184	3657035	90	71	19
L 13629 POD12	L	LE		2	1	2	11	15S	37E	671138	3657111	90	72	18
L 13629 POD13	L	LE		2	1	2	11	15S	37E	671093	3657074	90	70	20
L 13629 POD14	L	LE		2	1	2	11	15S	37E	671112	3657085	90	70	20
L 13629 POD16	L	LE		2	1	2	11	15S	37E	671094	3657050	90	70	20
L 13629 POD7	L	LE		2	1	2	11	15S	37E	671073	3657109	90	73	17
L 13629 POD8	L	LE		2	1	2	11	15S	37E	671100	3656952	90	69	21
L 13631 POD4	L	LE		3	3	1	13	15S	37E	671507	3654796	86	72	14
L 13692 POD9	L	LE		2	1	2	11	15S	37E	671040	3657045	90	70	20

*UTM location was derived from PLSS - see Help

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
L 13755 POD1	L	LE		3	3	3	05	15S	37E	665231	3657051	210	95	115
L 14152 POD16	L	LE		1	2	2	14	15S	37E	671273	3655439	90	65	25
L 14152 POD17	L	LE		2	1	2	14	15S	37E	671132	3655522	89	65	24
L 14152 POD18	L	LE		2	1	2	14	15S	37E	671140	3655466	89	65	24
L 14152 POD19	L	LE		2	1	2	14	15S	37E	671188	3655404	90	65	25
L 14152 POD20	L	LE		3	4	4	11	15S	37E	671250	3655547	89	65	24
L 14152 POD21	L	LE		1	2	2	14	15S	37E	671288	3655501	89	65	24
L 14152 POD22	L	LE		4	3	4	11	15S	37E	671227	3655455	89	65	24
L 14152 POD23	L	LE		2	1	2	14	15S	37E	671166	3655528	89	65	24
L 14152 POD24	L	LE		2	1	2	14	15S	37E	671225	3655508	89	65	24
L 14185 POD1	L	LE		2	4	1	25	15S	37E	672330	3651781	237	61	176
L 14264 POD1	L	LE		3	3	1	18	15S	37E	663650	3654720	210	80	130
L 14299 POD1	L	LE		3	3	3	11	15S	37E	670136	3655563	210	84	126
L 14423 POD1	L	LE		3	3	1	27	15S	37E	668529	3651623	180	106	74
L 14462 POD1	L	LE		3	3	1	08	15S	37E	665318	3656291	205	80	125
L 14734 POD1	L	LE		2	1	1	21	15S	37E	666863	3653837	204	100	104
L 14748 POD1	L	LE		4	4	3	28	15S	37E	667649	3650714	225	100	125
L 14824 POD1	L	LE		1	3	2	30	15S	37E	664597	3651525	220	220	0
L 14961 POD1	L	LE		4	3	4	18	15S	37E	664713	3653930	240	90	150
L 15060 POD1	L	LE		4	3	3	20	15S	37E	665618	3652590	195	103	92
L 15107 POD1	L	LE		3	1	3	22	15S	37E	668468	3652823	210	100	110
L 15107 POD2	L	LE		1	3	1	22	15S	37E	668537	3653348	208	100	108
L 15107 POD4	L	LE		3	2	1	22	15S	37E	668844	3653631	245	100	145
L 15138 POD1	L	LE		3	4	1	22	15S	37E	668842	3655019	184	84	100
L 15179 POD1	L	LE		3	3	2	20	15S	37E	666047	3653070	225	120	105
L 15240 POD1	L	LE		2	1	4	18	15S	37E	664742	3654582	212	110	102
L 15284 POD1	L	LE		4	2	1	22	15S	37E	669131	3653636	227	90	137

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Average Depth to Water: **69 feet**

Minimum Depth: **32 feet**

Maximum Depth: **220 feet**

Record Count: 256

PLSS Search:

Township: 15S

Range: 37E



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)				
Well Tag	POD Number		Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	L	13631 POD4	3	3	1	13	15S	37E	671507	3654796 
Driller License:		1456	Driller Company:			WHITE DRILLING COMPANY				
Driller Name:		WHITE, JOHNNOWN.GENER								
Drill Start Date:		04/15/2020	Drill Finish Date:			04/15/2020		Plug Date:		
Log File Date:		05/21/2020	PCW Rev Date:						Source: Shallow	
Pump Type:			Pipe Discharge Size:						Estimated Yield:	
Casing Size:		2.00	Depth Well:			86 feet		Depth Water:		72 feet
Water Bearing Stratifications:					Top	Bottom	Description			
					52	86	Sandstone/Gravel/Conglomerate			
Casing Perforations:					Top	Bottom				
					55	85				

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

6/14/22 6:05 PM

POINT OF DIVERSION SUMMARY



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

GO

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

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 330135103093001

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 330135103093001 15S.37E.12.313221

Lea County, New Mexico
Latitude 33°01'48", Longitude 103°09'38" NAD27
Land-surface elevation 3,785.80 feet above NGVD29
The depth of the well is 120 feet below land surface.
This well is completed in the High Plains aquifer (N100HGHLN) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1961-03-01			D 62610		3752.71	NGVD29	P		Z	
1961-03-01			D 62611		3754.01	NAVD88	P		Z	
1961-03-01			D 72019	33.09			P		Z	
1966-02-18			D 62610		3750.27	NGVD29	P		Z	
1966-02-18			D 62611		3751.57	NAVD88	P		Z	
1966-02-18			D 72019	35.53			P		Z	
1971-02-25			D 62610		3748.12	NGVD29	P		Z	
1971-02-25			D 62611		3749.42	NAVD88	P		Z	
1971-02-25			D 72019	37.68			P		Z	
1976-03-23			D 62610		3746.03	NGVD29	1		Z	
1976-03-23			D 62611		3747.33	NAVD88	1		Z	
1976-03-23			D 72019	39.77			1		Z	
1981-01-08			D 62610		3742.60	NGVD29	1		Z	
1981-01-08			D 62611		3743.90	NAVD88	1		Z	
1981-01-08			D 72019	43.20			1		Z	
1986-02-21			D 62610		3736.80	NGVD29	1		Z	
1986-02-21			D 62611		3738.10	NAVD88	1		Z	
1986-02-21			D 72019	49.00			1		Z	

6/14/22, 7:25 PM

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1991-03-13			D	62610	3735.37	NGVD29	1	Z		
1991-03-13			D	62611	3736.67	NAVD88	1	Z		
1991-03-13			D	72019	50.43		1	Z		
1996-01-10			D	62610	3733.32	NGVD29	1	S		
1996-01-10			D	62611	3734.62	NAVD88	1	S		
1996-01-10			D	72019	52.48		1	S		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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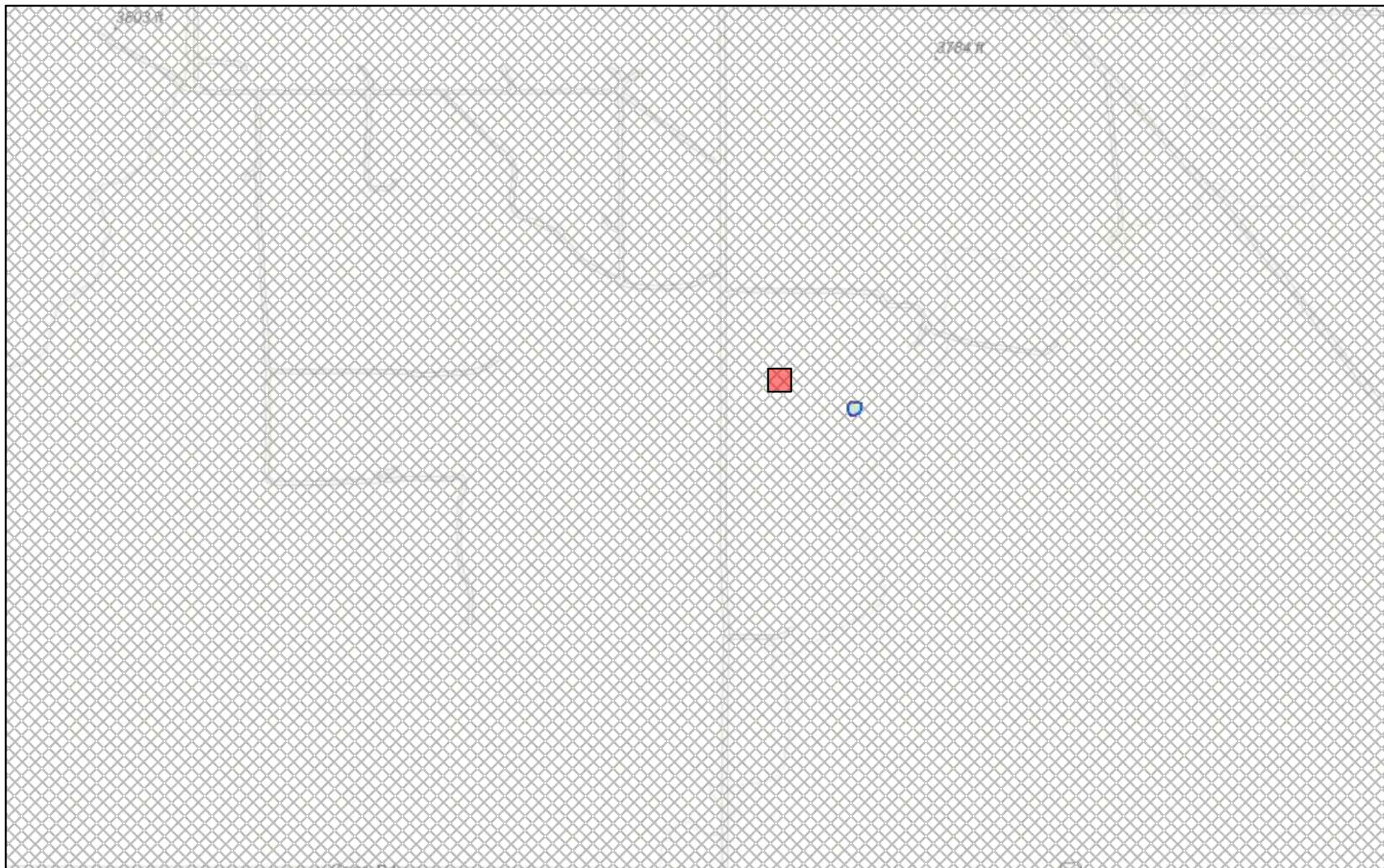
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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)**Title:** Groundwater for New Mexico: Water Levels**URL:** <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>Page Contact Information: [New Mexico Water Data Maintainer](#)

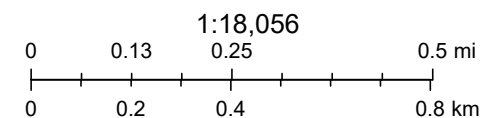
Page Last Modified: 2022-06-14 20:15:41 EDT

0.32 0.29 nadww01

New Mexico NFHL Data



June 14, 2022



FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

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APPENDIX D

CARMONA RESOURCES





Environment Testing
America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-14910-1

Laboratory Sample Delivery Group: Lea Co. NM
Client Project/Site: Denton SWD System

For:

Fasken Oil and Ranch
6101 Holiday Hill Road
Midland, Texas 79707

Attn: Grant Huckabay

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

5/23/2022 9:03:07 AM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Laboratory Job ID: 880-14910-1
SDG: Lea Co. NM

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Definitions/Glossary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14910-1
SDG: Lea Co. NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery 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: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14910-1
SDG: Lea Co. NM

Job ID: 880-14910-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-14910-1

Receipt

The samples were received on 5/17/2022 4:12 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 5.6°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-25814 and analytical batch 880-25815 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH6 (880-14910-6). Evidence of matrix interference is present; 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.

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.

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14910-1
SDG: Lea Co. NM

Client Sample ID: BH1

Lab Sample ID: 880-14910-1

Date Collected: 05/17/22 08:00

Matrix: Solid

Date Received: 05/17/22 16:12

Sample Depth: 0-6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		05/18/22 12:18	05/18/22 15:35	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		05/18/22 12:18	05/18/22 15:35	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		05/18/22 12:18	05/18/22 15:35	1
m-Xylene & p-Xylene	<0.00401	U F1	0.00401		mg/Kg		05/18/22 12:18	05/18/22 15:35	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		05/18/22 12:18	05/18/22 15:35	1
Xylenes, Total	<0.00401	U F1	0.00401		mg/Kg		05/18/22 12:18	05/18/22 15:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	05/18/22 12:18	05/18/22 15:35	1
1,4-Difluorobenzene (Surr)	96		70 - 130	05/18/22 12:18	05/18/22 15:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/19/22 11:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	290		50.0		mg/Kg			05/23/22 09:09	1

Method: 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		mg/Kg		05/19/22 10:11	05/20/22 19:37	1
Diesel Range Organics (Over C10-C28)	290		50.0		mg/Kg		05/19/22 10:11	05/20/22 19:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/19/22 10:11	05/20/22 19:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	05/19/22 10:11	05/20/22 19:37	1
o-Terphenyl	105		70 - 130	05/19/22 10:11	05/20/22 19:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1580		24.9		mg/Kg			05/20/22 15:11	5

Client Sample ID: BH2

Lab Sample ID: 880-14910-2

Date Collected: 05/17/22 08:30

Matrix: Solid

Date Received: 05/17/22 16:12

Sample Depth: 0-6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/18/22 12:18	05/18/22 15:56	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/18/22 12:18	05/18/22 15:56	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/18/22 12:18	05/18/22 15:56	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/18/22 12:18	05/18/22 15:56	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/18/22 12:18	05/18/22 15:56	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/18/22 12:18	05/18/22 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	05/18/22 12:18	05/18/22 15:56	1

Eurofins Midland

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14910-1
SDG: Lea Co. NM

Client Sample ID: BH2

Lab Sample ID: 880-14910-2

Date Collected: 05/17/22 08:30

Matrix: Solid

Date Received: 05/17/22 16:12

Sample Depth: 0-6"

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130	05/18/22 12:18	05/18/22 15:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/19/22 11:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	93.8		49.9		mg/Kg			05/23/22 09:09	1

Method: 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		mg/Kg		05/19/22 10:11	05/20/22 19:59	1
Diesel Range Organics (Over C10-C28)	93.8		49.9		mg/Kg		05/19/22 10:11	05/20/22 19:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/19/22 10:11	05/20/22 19:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				05/19/22 10:11	05/20/22 19:59	1
o-Terphenyl	108		70 - 130				05/19/22 10:11	05/20/22 19:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	614		4.95		mg/Kg			05/20/22 15:19	1

Client Sample ID: BH3

Lab Sample ID: 880-14910-3

Date Collected: 05/17/22 09:00

Matrix: Solid

Date Received: 05/17/22 16:12

Sample Depth: 0-6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/18/22 12:18	05/18/22 16:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/18/22 12:18	05/18/22 16:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/18/22 12:18	05/18/22 16:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/18/22 12:18	05/18/22 16:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/18/22 12:18	05/18/22 16:17	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/18/22 12:18	05/18/22 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	05/18/22 12:18	05/18/22 16:17	1
1,4-Difluorobenzene (Surr)	96		70 - 130	05/18/22 12:18	05/18/22 16:17	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/19/22 11:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	122		49.9		mg/Kg			05/23/22 09:09	1

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Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14910-1
SDG: Lea Co. NM

Client Sample ID: BH3

Lab Sample ID: 880-14910-3

Date Collected: 05/17/22 09:00

Matrix: Solid

Date Received: 05/17/22 16:12

Sample Depth: 0-6"

Method: 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		mg/Kg		05/19/22 10:11	05/20/22 20:21	1
Diesel Range Organics (Over C10-C28)	122		49.9		mg/Kg		05/19/22 10:11	05/20/22 20:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/19/22 10:11	05/20/22 20:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				05/19/22 10:11	05/20/22 20:21	1
o-Terphenyl	115		70 - 130				05/19/22 10:11	05/20/22 20:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8410		49.5		mg/Kg			05/20/22 15:26	10

Client Sample ID: BH4

Lab Sample ID: 880-14910-4

Date Collected: 05/17/22 09:30

Matrix: Solid

Date Received: 05/17/22 16:12

Sample Depth: 0-6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/18/22 12:18	05/18/22 16:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/18/22 12:18	05/18/22 16:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/18/22 12:18	05/18/22 16:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/18/22 12:18	05/18/22 16:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/18/22 12:18	05/18/22 16:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/18/22 12:18	05/18/22 16:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				05/18/22 12:18	05/18/22 16:52	1
1,4-Difluorobenzene (Surr)	99		70 - 130				05/18/22 12:18	05/18/22 16:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/19/22 11:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	184		49.8		mg/Kg			05/23/22 09:09	1

Method: 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		mg/Kg		05/19/22 10:11	05/20/22 20:43	1
Diesel Range Organics (Over C10-C28)	184		49.8		mg/Kg		05/19/22 10:11	05/20/22 20:43	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/19/22 10:11	05/20/22 20:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				05/19/22 10:11	05/20/22 20:43	1
o-Terphenyl	129		70 - 130				05/19/22 10:11	05/20/22 20:43	1

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Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14910-1
SDG: Lea Co. NM

Client Sample ID: BH4

Lab Sample ID: 880-14910-4

Date Collected: 05/17/22 09:30

Matrix: Solid

Date Received: 05/17/22 16:12

Sample Depth: 0-6"

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5390		50.1		mg/Kg			05/20/22 15:34	10

Client Sample ID: BH5

Lab Sample ID: 880-14910-5

Date Collected: 05/17/22 10:00

Matrix: Solid

Date Received: 05/17/22 16:12

Sample Depth: 0-6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/18/22 12:18	05/18/22 17:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/18/22 12:18	05/18/22 17:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/18/22 12:18	05/18/22 17:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/18/22 12:18	05/18/22 17:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/18/22 12:18	05/18/22 17:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/18/22 12:18	05/18/22 17:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				05/18/22 12:18	05/18/22 17:13	1
1,4-Difluorobenzene (Surr)	105		70 - 130				05/18/22 12:18	05/18/22 17:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/19/22 11:35	1

Method: 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		mg/Kg			05/23/22 09:09	1

Method: 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		mg/Kg		05/19/22 10:11	05/20/22 21:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/19/22 10:11	05/20/22 21:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/19/22 10:11	05/20/22 21:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				05/19/22 10:11	05/20/22 21:05	1
o-Terphenyl	128		70 - 130				05/19/22 10:11	05/20/22 21:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.9		4.97		mg/Kg			05/20/22 15:41	1

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Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14910-1
SDG: Lea Co. NM

Client Sample ID: BH6

Lab Sample ID: 880-14910-6

Date Collected: 05/17/22 10:55

Matrix: Solid

Date Received: 05/17/22 16:12

Sample Depth: 0-6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/18/22 12:18	05/18/22 17:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/18/22 12:18	05/18/22 17:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/18/22 12:18	05/18/22 17:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/18/22 12:18	05/18/22 17:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/18/22 12:18	05/18/22 17:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/18/22 12:18	05/18/22 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	56	S1-	70 - 130	05/18/22 12:18	05/18/22 17:34	1
1,4-Difluorobenzene (Surr)	108		70 - 130	05/18/22 12:18	05/18/22 17:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/19/22 11:35	1

Method: 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		mg/Kg			05/23/22 09:09	1

Method: 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		mg/Kg		05/19/22 10:11	05/20/22 21:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/19/22 10:11	05/20/22 21:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/19/22 10:11	05/20/22 21:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130	05/19/22 10:11	05/20/22 21:27	1
o-Terphenyl	138	S1+	70 - 130	05/19/22 10:11	05/20/22 21:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	283		5.05		mg/Kg			05/20/22 15:48	1

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Surrogate Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14910-1
SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-14910-1	BH1	117	96
880-14910-1 MS	BH1	97	94
880-14910-1 MSD	BH1	93	101
880-14910-2	BH2	94	106
880-14910-3	BH3	93	96
880-14910-4	BH4	90	99
880-14910-5	BH5	97	105
880-14910-6	BH6	56 S1-	108
LCS 880-25814/1-A	Lab Control Sample	83	106
LCSD 880-25814/2-A	Lab Control Sample Dup	90	106
MB 880-25814/5-A	Method Blank	94	101
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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-14910-1	BH1	106	105
880-14910-2	BH2	108	108
880-14910-3	BH3	112	115
880-14910-4	BH4	120	129
880-14910-5	BH5	119	128
880-14910-6	BH6	125	138 S1+
890-2317-A-1-E MS	Matrix Spike	89	86
890-2317-A-1-F MSD	Matrix Spike Duplicate	85	83
LCS 880-25868/2-A	Lab Control Sample	91	90
LCSD 880-25868/3-A	Lab Control Sample Dup	100	100
MB 880-25868/1-A	Method Blank	117	128
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14910-1
SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25814/5-A

Matrix: Solid

Analysis Batch: 25815

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25814

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/18/22 12:18	05/18/22 15:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/18/22 12:18	05/18/22 15:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/18/22 12:18	05/18/22 15:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/18/22 12:18	05/18/22 15:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/18/22 12:18	05/18/22 15:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/18/22 12:18	05/18/22 15:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	05/18/22 12:18	05/18/22 15:13	1
1,4-Difluorobenzene (Surr)	101		70 - 130	05/18/22 12:18	05/18/22 15:13	1

Lab Sample ID: LCS 880-25814/1-A

Matrix: Solid

Analysis Batch: 25815

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1087		mg/Kg		109	70 - 130
Toluene	0.100	0.09366		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.07705		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	0.200	0.1552		mg/Kg		78	70 - 130
o-Xylene	0.100	0.07759		mg/Kg		78	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-25814/2-A

Matrix: Solid

Analysis Batch: 25815

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25814

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1049		mg/Kg		105	70 - 130	4	35
Toluene	0.100	0.09521		mg/Kg		95	70 - 130	2	35
Ethylbenzene	0.100	0.07988		mg/Kg		80	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1639		mg/Kg		82	70 - 130	5	35
o-Xylene	0.100	0.08258		mg/Kg		83	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-14910-1 MS

Matrix: Solid

Analysis Batch: 25815

Client Sample ID: BH1

Prep Type: Total/NA

Prep Batch: 25814

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1	0.0996	0.06424	F1	mg/Kg		64	70 - 130
Toluene	<0.00200	U F1	0.0996	0.06553	F1	mg/Kg		66	70 - 130

Eurofins Midland

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14910-1
SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-14910-1 MS

Matrix: Solid

Analysis Batch: 25815

Client Sample ID: BH1

Prep Type: Total/NA

Prep Batch: 25814

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F1	0.0996	0.04643	F1	mg/Kg		47	70 - 130
m-Xylene & p-Xylene	<0.00401	U F1	0.199	0.08598	F1	mg/Kg		43	70 - 130
o-Xylene	<0.00200	U F1	0.0996	0.04410	F1	mg/Kg		44	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-14910-1 MSD

Matrix: Solid

Analysis Batch: 25815

Client Sample ID: BH1

Prep Type: Total/NA

Prep Batch: 25814

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0998	0.06829	F1	mg/Kg		68	70 - 130	6	35
Toluene	<0.00200	U F1	0.0998	0.06304	F1	mg/Kg		63	70 - 130	4	35
Ethylbenzene	<0.00200	U F1	0.0998	0.04651	F1	mg/Kg		47	70 - 130	0	35
m-Xylene & p-Xylene	<0.00401	U F1	0.200	0.09350	F1	mg/Kg		47	70 - 130	8	35
o-Xylene	<0.00200	U F1	0.0998	0.04692	F1	mg/Kg		47	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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

Lab Sample ID: MB 880-25868/1-A

Matrix: Solid

Analysis Batch: 25938

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25868

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/19/22 10:11	05/20/22 11:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/19/22 10:11	05/20/22 11:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/19/22 10:11	05/20/22 11:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	05/19/22 10:11	05/20/22 11:37	1
o-Terphenyl	128		70 - 130	05/19/22 10:11	05/20/22 11:37	1

Lab Sample ID: LCS 880-25868/2-A

Matrix: Solid

Analysis Batch: 25938

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25868

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1130		mg/Kg		113	70 - 130
Diesel Range Organics (Over C10-C28)	1000	824.5		mg/Kg		82	70 - 130

Eurofins Midland

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14910-1
SDG: Lea Co. NM

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

Lab Sample ID: LCS 880-25868/2-A

Matrix: Solid

Analysis Batch: 25938

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25868

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: LCSD 880-25868/3-A

Matrix: Solid

Analysis Batch: 25938

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25868

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1114		mg/Kg		111	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	792.8		mg/Kg		79	70 - 130	4	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: 890-2317-A-1-E MS

Matrix: Solid

Analysis Batch: 25938

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25868

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1083		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	92.5		1000	869.6		mg/Kg		78	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: 890-2317-A-1-F MSD

Matrix: Solid

Analysis Batch: 25938

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25868

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	973.2		mg/Kg		95	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	92.5		999	869.1		mg/Kg		78	70 - 130	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	83		70 - 130

Eurofins Midland

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14910-1
SDG: Lea Co. NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-25818/1-A

Matrix: Solid

Analysis Batch: 25929

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/20/22 11:53	1

Lab Sample ID: LCS 880-25818/2-A

Matrix: Solid

Analysis Batch: 25929

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	263.7		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-25818/3-A

Matrix: Solid

Analysis Batch: 25929

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	262.7		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-14887-A-1-B MS

Matrix: Solid

Analysis Batch: 25929

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3500		2480	5737		mg/Kg		90	90 - 110

Lab Sample ID: 880-14887-A-1-C MSD

Matrix: Solid

Analysis Batch: 25929

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3500		2480	5759		mg/Kg		91	90 - 110	0	20

Lab Sample ID: 880-14909-A-2-B MS

Matrix: Solid

Analysis Batch: 25929

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2500		1250	3778		mg/Kg		102	90 - 110

Lab Sample ID: 880-14909-A-2-C MSD

Matrix: Solid

Analysis Batch: 25929

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2500		1250	3777		mg/Kg		102	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14910-1
SDG: Lea Co. NM

GC VOA

Prep Batch: 25814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14910-1	BH1	Total/NA	Solid	5035	
880-14910-2	BH2	Total/NA	Solid	5035	
880-14910-3	BH3	Total/NA	Solid	5035	
880-14910-4	BH4	Total/NA	Solid	5035	
880-14910-5	BH5	Total/NA	Solid	5035	
880-14910-6	BH6	Total/NA	Solid	5035	
MB 880-25814/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25814/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25814/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14910-1 MS	BH1	Total/NA	Solid	5035	
880-14910-1 MSD	BH1	Total/NA	Solid	5035	

Analysis Batch: 25815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14910-1	BH1	Total/NA	Solid	8021B	25814
880-14910-2	BH2	Total/NA	Solid	8021B	25814
880-14910-3	BH3	Total/NA	Solid	8021B	25814
880-14910-4	BH4	Total/NA	Solid	8021B	25814
880-14910-5	BH5	Total/NA	Solid	8021B	25814
880-14910-6	BH6	Total/NA	Solid	8021B	25814
MB 880-25814/5-A	Method Blank	Total/NA	Solid	8021B	25814
LCS 880-25814/1-A	Lab Control Sample	Total/NA	Solid	8021B	25814
LCSD 880-25814/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25814
880-14910-1 MS	BH1	Total/NA	Solid	8021B	25814
880-14910-1 MSD	BH1	Total/NA	Solid	8021B	25814

Analysis Batch: 25889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14910-1	BH1	Total/NA	Solid	Total BTEX	
880-14910-2	BH2	Total/NA	Solid	Total BTEX	
880-14910-3	BH3	Total/NA	Solid	Total BTEX	
880-14910-4	BH4	Total/NA	Solid	Total BTEX	
880-14910-5	BH5	Total/NA	Solid	Total BTEX	
880-14910-6	BH6	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 25868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14910-1	BH1	Total/NA	Solid	8015NM Prep	
880-14910-2	BH2	Total/NA	Solid	8015NM Prep	
880-14910-3	BH3	Total/NA	Solid	8015NM Prep	
880-14910-4	BH4	Total/NA	Solid	8015NM Prep	
880-14910-5	BH5	Total/NA	Solid	8015NM Prep	
880-14910-6	BH6	Total/NA	Solid	8015NM Prep	
MB 880-25868/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-25868/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-25868/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2317-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2317-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14910-1
SDG: Lea Co. NM

GC Semi VOA

Analysis Batch: 25938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14910-1	BH1	Total/NA	Solid	8015B NM	25868
880-14910-2	BH2	Total/NA	Solid	8015B NM	25868
880-14910-3	BH3	Total/NA	Solid	8015B NM	25868
880-14910-4	BH4	Total/NA	Solid	8015B NM	25868
880-14910-5	BH5	Total/NA	Solid	8015B NM	25868
880-14910-6	BH6	Total/NA	Solid	8015B NM	25868
MB 880-25868/1-A	Method Blank	Total/NA	Solid	8015B NM	25868
LCS 880-25868/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	25868
LCSD 880-25868/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	25868
890-2317-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	25868
890-2317-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	25868

Analysis Batch: 26033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14910-1	BH1	Total/NA	Solid	8015 NM	
880-14910-2	BH2	Total/NA	Solid	8015 NM	
880-14910-3	BH3	Total/NA	Solid	8015 NM	
880-14910-4	BH4	Total/NA	Solid	8015 NM	
880-14910-5	BH5	Total/NA	Solid	8015 NM	
880-14910-6	BH6	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 25818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14910-1	BH1	Soluble	Solid	DI Leach	
880-14910-2	BH2	Soluble	Solid	DI Leach	
880-14910-3	BH3	Soluble	Solid	DI Leach	
880-14910-4	BH4	Soluble	Solid	DI Leach	
880-14910-5	BH5	Soluble	Solid	DI Leach	
880-14910-6	BH6	Soluble	Solid	DI Leach	
MB 880-25818/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-25818/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-25818/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-14887-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-14887-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-14909-A-2-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-14909-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 25929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14910-1	BH1	Soluble	Solid	300.0	25818
880-14910-2	BH2	Soluble	Solid	300.0	25818
880-14910-3	BH3	Soluble	Solid	300.0	25818
880-14910-4	BH4	Soluble	Solid	300.0	25818
880-14910-5	BH5	Soluble	Solid	300.0	25818
880-14910-6	BH6	Soluble	Solid	300.0	25818
MB 880-25818/1-A	Method Blank	Soluble	Solid	300.0	25818
LCS 880-25818/2-A	Lab Control Sample	Soluble	Solid	300.0	25818
LCSD 880-25818/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	25818
880-14887-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	25818

Eurofins Midland

QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14910-1
SDG: Lea Co. NM

HPLC/IC (Continued)

Analysis Batch: 25929 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14887-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	25818
880-14909-A-2-B MS	Matrix Spike	Soluble	Solid	300.0	25818
880-14909-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	25818

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

Lab Chronicle

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14910-1
SDG: Lea Co. NM

Client Sample ID: BH1

Lab Sample ID: 880-14910-1

Date Collected: 05/17/22 08:00

Matrix: Solid

Date Received: 05/17/22 16:12

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	25814	05/18/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25815	05/18/22 15:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25889	05/19/22 11:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26033	05/23/22 09:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25868	05/19/22 10:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25938	05/20/22 19:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	25818	05/18/22 14:06	CH	XEN MID
Soluble	Analysis	300.0		5			25929	05/20/22 15:11	CH	XEN MID

Client Sample ID: BH2

Lab Sample ID: 880-14910-2

Date Collected: 05/17/22 08:30

Matrix: Solid

Date Received: 05/17/22 16:12

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	25814	05/18/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25815	05/18/22 15:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25889	05/19/22 11:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26033	05/23/22 09:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25868	05/19/22 10:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25938	05/20/22 19:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	25818	05/18/22 14:06	CH	XEN MID
Soluble	Analysis	300.0		1			25929	05/20/22 15:19	CH	XEN MID

Client Sample ID: BH3

Lab Sample ID: 880-14910-3

Date Collected: 05/17/22 09:00

Matrix: Solid

Date Received: 05/17/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	25814	05/18/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25815	05/18/22 16:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25889	05/19/22 11:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26033	05/23/22 09:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25868	05/19/22 10:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25938	05/20/22 20:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	25818	05/18/22 14:06	CH	XEN MID
Soluble	Analysis	300.0		10			25929	05/20/22 15:26	CH	XEN MID

Client Sample ID: BH4

Lab Sample ID: 880-14910-4

Date Collected: 05/17/22 09:30

Matrix: Solid

Date Received: 05/17/22 16:12

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	25814	05/18/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25815	05/18/22 16:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25889	05/19/22 11:35	SM	XEN MID

Eurofins Midland

Lab Chronicle

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14910-1
SDG: Lea Co. NM

Client Sample ID: BH4

Lab Sample ID: 880-14910-4

Date Collected: 05/17/22 09:30

Matrix: Solid

Date Received: 05/17/22 16:12

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			26033	05/23/22 09:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	25868	05/19/22 10:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25938	05/20/22 20:43	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	25818	05/18/22 14:06	CH	XEN MID
Soluble	Analysis	300.0		10			25929	05/20/22 15:34	CH	XEN MID

Client Sample ID: BH5

Lab Sample ID: 880-14910-5

Date Collected: 05/17/22 10:00

Matrix: Solid

Date Received: 05/17/22 16:12

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	25814	05/18/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25815	05/18/22 17:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25889	05/19/22 11:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26033	05/23/22 09:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	25868	05/19/22 10:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25938	05/20/22 21:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	25818	05/18/22 14:06	CH	XEN MID
Soluble	Analysis	300.0		1			25929	05/20/22 15:41	CH	XEN MID

Client Sample ID: BH6

Lab Sample ID: 880-14910-6

Date Collected: 05/17/22 10:55

Matrix: Solid

Date Received: 05/17/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	25814	05/18/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25815	05/18/22 17:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25889	05/19/22 11:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26033	05/23/22 09:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	25868	05/19/22 10:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25938	05/20/22 21:27	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	25818	05/18/22 14:06	CH	XEN MID
Soluble	Analysis	300.0		1			25929	05/20/22 15:48	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Accreditation/Certification Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14910-1
SDG: Lea Co. NM

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	T104704400-21-22	06-30-22

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

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

Method Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14910-1
SDG: Lea Co. NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Sample Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14910-1
SDG: Lea Co. NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-14910-1	BH1	Solid	05/17/22 08:00	05/17/22 16:12	0-6"
880-14910-2	BH2	Solid	05/17/22 08:30	05/17/22 16:12	0-6"
880-14910-3	BH3	Solid	05/17/22 09:00	05/17/22 16:12	0-6"
880-14910-4	BH4	Solid	05/17/22 09:30	05/17/22 16:12	0-6"
880-14910-5	BH5	Solid	05/17/22 10:00	05/17/22 16:12	0-6"
880-14910-6	BH6	Solid	05/17/22 10:55	05/17/22 16:12	0-6"



Environment Testing
Xenco

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

Chain of Custody

Work Order No: 14910

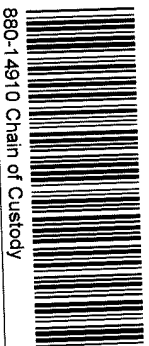
www.xenco.com Page 1 of 1

Project Manager	Grant Huckabay	Bill to (if different)	
Company Name	Fasken Oil and Ranch	Company Name	
Address	6101 Holiday Hill Road	Address	
City, State Zip	Midland TX 79707	City, State Zip	
Phone	432-687-1777	Email	granth@foil.com / addisong@foil.com

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

Project Name	Denno SVD System	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number	LEA Co. NM	Due Date	5/23/22		
Project Location	Addison Guetker	TAT starts the day received by the lab if received by 4:30pm			
Sampler's Name					
PO #					
SAMPLE RECEIPT					
Samples Received Intact:	Temp Blank	Yes ☒ No ☐	Wet Ice	Yes ☒ No ☐	
Cooler Custody Seals	Yes ☒ No ☐	Thermometer ID			
Sample Custody Seals	Yes ☒ No ☐	Correction Factor			
Total Containers	Yes ☒ No ☐	Temperature Reading			
		Corrected Temperature			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	ANALYSIS REQUEST	Preservative Codes
BH1	S	5/17/22	8:00	0-6"	G	1	TPH 8015M	None NO Cool Cool HCL HC H2SO4 H2 H3PO4 HP NaHSO4 NABIS Na2S2O3 NaSO3 Zn Acetate+NaOH Zn NaOH+Ascorbic Acid SAPC
BH2	S	5/17/22	8:30	0-6"	G	1	BTEX 8021B	
BH3	S		9:00	0-6"	G	1		
BH4	S		9:30	0-6"	G	1		
BH5	S		10:00	0-6"	G	1		
BH6	S		10:55	0-6"	G	1		
	S							
	S							
	S							
	S							



880-14910 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
1. Addison	2. [Signature]	5/17/22			
3.		10:12			
5.					

Login Sample Receipt Checklist

Client: Fasken Oil and Ranch

Job Number: 880-14910-1

SDG Number: Lea Co. NM

Login Number: 14910

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	



Environment Testing
America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-14909-1

Laboratory Sample Delivery Group: Lea Co. NM
Client Project/Site: Denton SWD System

For:

Fasken Oil and Ranch
6101 Holiday Hill Road
Midland, Texas 79707

Attn: Grant Huckabay

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

5/20/2022 3:58:35 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Laboratory Job ID: 880-14909-1
SDG: Lea Co. NM

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Definitions/Glossary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14909-1
SDG: Lea Co. NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.
□	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: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14909-1
SDG: Lea Co. NM

Job ID: 880-14909-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-14909-1

Receipt

The samples were received on 5/17/2022 4:12 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 5.6°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-25814 and analytical batch 880-25815 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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.

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14909-1
SDG: Lea Co. NM

Client Sample ID: BH1

Lab Sample ID: 880-14909-1

Date Collected: 05/17/22 08:10

Matrix: Solid

Date Received: 05/17/22 16:12

Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.199	U	0.199		mg/Kg		05/18/22 12:18	05/18/22 23:25	100
Toluene	<0.199	U	0.199		mg/Kg		05/18/22 12:18	05/18/22 23:25	100
Ethylbenzene	<0.199	U	0.199		mg/Kg		05/18/22 12:18	05/18/22 23:25	100
m-Xylene & p-Xylene	<0.398	U	0.398		mg/Kg		05/18/22 12:18	05/18/22 23:25	100
o-Xylene	<0.199	U	0.199		mg/Kg		05/18/22 12:18	05/18/22 23:25	100
Xylenes, Total	<0.398	U	0.398		mg/Kg		05/18/22 12:18	05/18/22 23:25	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	05/18/22 12:18	05/18/22 23:25	100
1,4-Difluorobenzene (Surr)	91		70 - 130	05/18/22 12:18	05/18/22 23:25	100

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.398	U	0.398		mg/Kg			05/19/22 11:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	500		50.0		mg/Kg			05/19/22 08:51	1

Method: 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		mg/Kg		05/18/22 15:06	05/19/22 03:25	1
Diesel Range Organics (Over C10-C28)	500		50.0		mg/Kg		05/18/22 15:06	05/19/22 03:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/18/22 15:06	05/19/22 03:25	1
Total TPH	500		50.0		mg/Kg		05/18/22 15:06	05/19/22 03:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	05/18/22 15:06	05/19/22 03:25	1
o-Terphenyl	110		70 - 130	05/18/22 15:06	05/19/22 03:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3840		24.9		mg/Kg			05/20/22 13:52	5

Client Sample ID: BH2

Lab Sample ID: 880-14909-2

Date Collected: 05/17/22 08:40

Matrix: Solid

Date Received: 05/17/22 16:12

Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/18/22 12:18	05/18/22 22:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/18/22 12:18	05/18/22 22:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/18/22 12:18	05/18/22 22:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/18/22 12:18	05/18/22 22:03	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/18/22 12:18	05/18/22 22:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/18/22 12:18	05/18/22 22:03	1

Eurofins Midland

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14909-1
SDG: Lea Co. NM

Client Sample ID: BH2

Lab Sample ID: 880-14909-2

Date Collected: 05/17/22 08:40

Matrix: Solid

Date Received: 05/17/22 16:12

Sample Depth: 1'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	05/18/22 12:18	05/18/22 22:03	1
1,4-Difluorobenzene (Surr)	90		70 - 130	05/18/22 12:18	05/18/22 22:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/19/22 11:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	145		50.0		mg/Kg			05/19/22 08:51	1

Method: 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		mg/Kg		05/18/22 15:06	05/19/22 04:07	1
Diesel Range Organics (Over C10-C28)	145		50.0		mg/Kg		05/18/22 15:06	05/19/22 04:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/18/22 15:06	05/19/22 04:07	1
Total TPH	145		50.0		mg/Kg		05/18/22 15:06	05/19/22 04:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	05/18/22 15:06	05/19/22 04:07	1
o-Terphenyl	117		70 - 130	05/18/22 15:06	05/19/22 04:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2500		25.0		mg/Kg			05/20/22 14:12	5

Client Sample ID: BH3

Lab Sample ID: 880-14909-3

Date Collected: 05/17/22 09:10

Matrix: Solid

Date Received: 05/17/22 16:12

Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.207		0.0504		mg/Kg		05/18/22 12:18	05/18/22 23:04	25
Toluene	<0.0504	U	0.0504		mg/Kg		05/18/22 12:18	05/18/22 23:04	25
Ethylbenzene	<0.0504	U	0.0504		mg/Kg		05/18/22 12:18	05/18/22 23:04	25
m-Xylene & p-Xylene	<0.101	U	0.101		mg/Kg		05/18/22 12:18	05/18/22 23:04	25
o-Xylene	<0.0504	U	0.0504		mg/Kg		05/18/22 12:18	05/18/22 23:04	25
Xylenes, Total	<0.101	U	0.101		mg/Kg		05/18/22 12:18	05/18/22 23:04	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	05/18/22 12:18	05/18/22 23:04	25
1,4-Difluorobenzene (Surr)	101		70 - 130	05/18/22 12:18	05/18/22 23:04	25

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.207		0.101		mg/Kg			05/19/22 11:35	1

Eurofins Midland

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14909-1
SDG: Lea Co. NM

Client Sample ID: BH3

Lab Sample ID: 880-14909-3

Date Collected: 05/17/22 09:10

Matrix: Solid

Date Received: 05/17/22 16:12

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	371		49.9		mg/Kg			05/19/22 08:51	1

Method: 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		mg/Kg		05/18/22 15:06	05/19/22 03:46	1
Diesel Range Organics (Over C10-C28)	371		49.9		mg/Kg		05/18/22 15:06	05/19/22 03:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/18/22 15:06	05/19/22 03:46	1
Total TPH	371		49.9		mg/Kg		05/18/22 15:06	05/19/22 03:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				05/18/22 15:06	05/19/22 03:46	1
o-Terphenyl	114		70 - 130				05/18/22 15:06	05/19/22 03:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1920		24.8		mg/Kg			05/20/22 14:34	5

Client Sample ID: BH4

Lab Sample ID: 880-14909-4

Date Collected: 05/17/22 09:40

Matrix: Solid

Date Received: 05/17/22 16:12

Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/18/22 12:18	05/18/22 22:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/18/22 12:18	05/18/22 22:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/18/22 12:18	05/18/22 22:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/18/22 12:18	05/18/22 22:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/18/22 12:18	05/18/22 22:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/18/22 12:18	05/18/22 22:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				05/18/22 12:18	05/18/22 22:23	1
1,4-Difluorobenzene (Surr)	86		70 - 130				05/18/22 12:18	05/18/22 22:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/19/22 11:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	79.3		50.0		mg/Kg			05/19/22 08:51	1

Method: 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		mg/Kg		05/18/22 15:06	05/19/22 04:28	1
Diesel Range Organics (Over C10-C28)	79.3		50.0		mg/Kg		05/18/22 15:06	05/19/22 04:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/18/22 15:06	05/19/22 04:28	1

Eurofins Midland

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14909-1
SDG: Lea Co. NM

Client Sample ID: BH4

Lab Sample ID: 880-14909-4

Date Collected: 05/17/22 09:40

Matrix: Solid

Date Received: 05/17/22 16:12

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	79.3		50.0		mg/Kg		05/18/22 15:06	05/19/22 04:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				05/18/22 15:06	05/19/22 04:28	1
o-Terphenyl	109		70 - 130				05/18/22 15:06	05/19/22 04:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3530		25.0		mg/Kg			05/20/22 14:41	5

Client Sample ID: BH5

Lab Sample ID: 880-14909-5

Date Collected: 05/17/22 10:10

Matrix: Solid

Date Received: 05/17/22 16:12

Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/18/22 12:18	05/18/22 22:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/18/22 12:18	05/18/22 22:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/18/22 12:18	05/18/22 22:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/18/22 12:18	05/18/22 22:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/18/22 12:18	05/18/22 22:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/18/22 12:18	05/18/22 22:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				05/18/22 12:18	05/18/22 22:44	1
1,4-Difluorobenzene (Surr)	97		70 - 130				05/18/22 12:18	05/18/22 22:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/19/22 11:35	1

Method: 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		mg/Kg			05/19/22 08:51	1

Method: 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		mg/Kg		05/18/22 15:06	05/19/22 04:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/18/22 15:06	05/19/22 04:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/18/22 15:06	05/19/22 04:49	1
Total TPH	<49.9	U	49.9		mg/Kg		05/18/22 15:06	05/19/22 04:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				05/18/22 15:06	05/19/22 04:49	1
o-Terphenyl	106		70 - 130				05/18/22 15:06	05/19/22 04:49	1

Eurofins Midland

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14909-1
SDG: Lea Co. NM

Client Sample ID: BH5
Date Collected: 05/17/22 10:10
Date Received: 05/17/22 16:12
Sample Depth: 1'

Lab Sample ID: 880-14909-5
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	118		5.04		mg/Kg			05/20/22 15:04	1

Surrogate Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14909-1
SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-14909-1	BH1	112	91
880-14909-2	BH2	121	90
880-14909-3	BH3	122	101
880-14909-4	BH4	113	86
880-14909-5	BH5	112	97
880-14910-A-1-B MS	Matrix Spike	97	94
880-14910-A-1-C MSD	Matrix Spike Duplicate	93	101
LCS 880-25814/1-A	Lab Control Sample	83	106
LCSD 880-25814/2-A	Lab Control Sample Dup	90	106
MB 880-25814/5-A	Method Blank	94	101

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-14909-1	BH1	108	110
880-14909-2	BH2	111	117
880-14909-3	BH3	112	114
880-14909-4	BH4	107	109
880-14909-5	BH5	103	106
890-2316-A-1-G MS	Matrix Spike	104	98
890-2316-A-1-H MSD	Matrix Spike Duplicate	103	94
LCS 880-25829/2-A	Lab Control Sample	105	102
LCSD 880-25829/3-A	Lab Control Sample Dup	102	98
MB 880-25829/1-A	Method Blank	111	118

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14909-1
SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25814/5-A

Matrix: Solid

Analysis Batch: 25815

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25814

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/18/22 12:18	05/18/22 15:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/18/22 12:18	05/18/22 15:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/18/22 12:18	05/18/22 15:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/18/22 12:18	05/18/22 15:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/18/22 12:18	05/18/22 15:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/18/22 12:18	05/18/22 15:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	05/18/22 12:18	05/18/22 15:13	1
1,4-Difluorobenzene (Surr)	101		70 - 130	05/18/22 12:18	05/18/22 15:13	1

Lab Sample ID: LCS 880-25814/1-A

Matrix: Solid

Analysis Batch: 25815

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1087		mg/Kg		109	70 - 130
Toluene	0.100	0.09366		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.07705		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	0.200	0.1552		mg/Kg		78	70 - 130
o-Xylene	0.100	0.07759		mg/Kg		78	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-25814/2-A

Matrix: Solid

Analysis Batch: 25815

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25814

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1049		mg/Kg		105	70 - 130	4	35
Toluene	0.100	0.09521		mg/Kg		95	70 - 130	2	35
Ethylbenzene	0.100	0.07988		mg/Kg		80	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1639		mg/Kg		82	70 - 130	5	35
o-Xylene	0.100	0.08258		mg/Kg		83	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-14910-A-1-B MS

Matrix: Solid

Analysis Batch: 25815

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25814

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1	0.0996	0.06424	F1	mg/Kg		64	70 - 130
Toluene	<0.00200	U F1	0.0996	0.06553	F1	mg/Kg		66	70 - 130

Eurofins Midland

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14909-1
SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-14910-A-1-B MS

Matrix: Solid

Analysis Batch: 25815

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25814

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F1	0.0996	0.04643	F1	mg/Kg		47	70 - 130
m-Xylene & p-Xylene	<0.00401	U F1	0.199	0.08598	F1	mg/Kg		43	70 - 130
o-Xylene	<0.00200	U F1	0.0996	0.04410	F1	mg/Kg		44	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-14910-A-1-C MSD

Matrix: Solid

Analysis Batch: 25815

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25814

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0998	0.06829	F1	mg/Kg		68	70 - 130	6	35
Toluene	<0.00200	U F1	0.0998	0.06304	F1	mg/Kg		63	70 - 130	4	35
Ethylbenzene	<0.00200	U F1	0.0998	0.04651	F1	mg/Kg		47	70 - 130	0	35
m-Xylene & p-Xylene	<0.00401	U F1	0.200	0.09350	F1	mg/Kg		47	70 - 130	8	35
o-Xylene	<0.00200	U F1	0.0998	0.04692	F1	mg/Kg		47	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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

Lab Sample ID: MB 880-25829/1-A

Matrix: Solid

Analysis Batch: 25770

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25829

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/18/22 15:06	05/18/22 21:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/18/22 15:06	05/18/22 21:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/18/22 15:06	05/18/22 21:27	1
Total TPH	<50.0	U	50.0		mg/Kg		05/18/22 15:06	05/18/22 21:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	05/18/22 15:06	05/18/22 21:27	1
o-Terphenyl	118		70 - 130	05/18/22 15:06	05/18/22 21:27	1

Lab Sample ID: LCS 880-25829/2-A

Matrix: Solid

Analysis Batch: 25770

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	857.6		mg/Kg		86	70 - 130

Eurofins Midland

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14909-1
SDG: Lea Co. NM

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

Lab Sample ID: LCS 880-25829/2-A

Matrix: Solid

Analysis Batch: 25770

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	998.7		mg/Kg		100	70 - 130

	LCS %Recovery	LCS Qualifier	Limits
Surrogate			
1-Chlorooctane	105		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: LCSD 880-25829/3-A

Matrix: Solid

Analysis Batch: 25770

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25829

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	845.8		mg/Kg		85	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	959.5		mg/Kg		96	70 - 130	4	20

	LCSD %Recovery	LCSD Qualifier	Limits
Surrogate			
1-Chlorooctane	102		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: 890-2316-A-1-G MS

Matrix: Solid

Analysis Batch: 25770

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25829

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1156		mg/Kg		113	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	1000	1405	F1	mg/Kg		141	70 - 130

	MS %Recovery	MS Qualifier	Limits
Surrogate			
1-Chlorooctane	104		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: 890-2316-A-1-H MSD

Matrix: Solid

Analysis Batch: 25770

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25829

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1218		mg/Kg		119	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	999	1377	F1	mg/Kg		138	70 - 130	2	20

	MSD %Recovery	MSD Qualifier	Limits
Surrogate			
1-Chlorooctane	103		70 - 130
o-Terphenyl	94		70 - 130

Eurofins Midland

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14909-1
SDG: Lea Co. NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-25818/1-A

Matrix: Solid

Analysis Batch: 25929

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/20/22 11:53	1

Lab Sample ID: LCS 880-25818/2-A

Matrix: Solid

Analysis Batch: 25929

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	263.7		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-25818/3-A

Matrix: Solid

Analysis Batch: 25929

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	262.7		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-14909-2 MS

Matrix: Solid

Analysis Batch: 25929

Client Sample ID: BH2

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2500		1250	3778		mg/Kg		102	90 - 110

Lab Sample ID: 880-14909-2 MSD

Matrix: Solid

Analysis Batch: 25929

Client Sample ID: BH2

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2500		1250	3777		mg/Kg		102	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14909-1
SDG: Lea Co. NM

GC VOA

Prep Batch: 25814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14909-1	BH1	Total/NA	Solid	5035	
880-14909-2	BH2	Total/NA	Solid	5035	
880-14909-3	BH3	Total/NA	Solid	5035	
880-14909-4	BH4	Total/NA	Solid	5035	
880-14909-5	BH5	Total/NA	Solid	5035	
MB 880-25814/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25814/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25814/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14910-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-14910-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 25815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14909-1	BH1	Total/NA	Solid	8021B	25814
880-14909-2	BH2	Total/NA	Solid	8021B	25814
880-14909-3	BH3	Total/NA	Solid	8021B	25814
880-14909-4	BH4	Total/NA	Solid	8021B	25814
880-14909-5	BH5	Total/NA	Solid	8021B	25814
MB 880-25814/5-A	Method Blank	Total/NA	Solid	8021B	25814
LCS 880-25814/1-A	Lab Control Sample	Total/NA	Solid	8021B	25814
LCSD 880-25814/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25814
880-14910-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	25814
880-14910-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	25814

Analysis Batch: 25892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14909-1	BH1	Total/NA	Solid	Total BTEX	
880-14909-2	BH2	Total/NA	Solid	Total BTEX	
880-14909-3	BH3	Total/NA	Solid	Total BTEX	
880-14909-4	BH4	Total/NA	Solid	Total BTEX	
880-14909-5	BH5	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 25770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14909-1	BH1	Total/NA	Solid	8015B NM	25829
880-14909-2	BH2	Total/NA	Solid	8015B NM	25829
880-14909-3	BH3	Total/NA	Solid	8015B NM	25829
880-14909-4	BH4	Total/NA	Solid	8015B NM	25829
880-14909-5	BH5	Total/NA	Solid	8015B NM	25829
MB 880-25829/1-A	Method Blank	Total/NA	Solid	8015B NM	25829
LCS 880-25829/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	25829
LCSD 880-25829/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	25829
890-2316-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	25829
890-2316-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	25829

Prep Batch: 25829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14909-1	BH1	Total/NA	Solid	8015NM Prep	
880-14909-2	BH2	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14909-1
SDG: Lea Co. NM

GC Semi VOA (Continued)

Prep Batch: 25829 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14909-3	BH3	Total/NA	Solid	8015NM Prep	
880-14909-4	BH4	Total/NA	Solid	8015NM Prep	
880-14909-5	BH5	Total/NA	Solid	8015NM Prep	
MB 880-25829/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-25829/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-25829/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2316-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2316-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 25864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14909-1	BH1	Total/NA	Solid	8015 NM	
880-14909-2	BH2	Total/NA	Solid	8015 NM	
880-14909-3	BH3	Total/NA	Solid	8015 NM	
880-14909-4	BH4	Total/NA	Solid	8015 NM	
880-14909-5	BH5	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 25818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14909-1	BH1	Soluble	Solid	DI Leach	
880-14909-2	BH2	Soluble	Solid	DI Leach	
880-14909-3	BH3	Soluble	Solid	DI Leach	
880-14909-4	BH4	Soluble	Solid	DI Leach	
880-14909-5	BH5	Soluble	Solid	DI Leach	
MB 880-25818/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-25818/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-25818/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-14909-2 MS	BH2	Soluble	Solid	DI Leach	
880-14909-2 MSD	BH2	Soluble	Solid	DI Leach	

Analysis Batch: 25929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14909-1	BH1	Soluble	Solid	300.0	25818
880-14909-2	BH2	Soluble	Solid	300.0	25818
880-14909-3	BH3	Soluble	Solid	300.0	25818
880-14909-4	BH4	Soluble	Solid	300.0	25818
880-14909-5	BH5	Soluble	Solid	300.0	25818
MB 880-25818/1-A	Method Blank	Soluble	Solid	300.0	25818
LCS 880-25818/2-A	Lab Control Sample	Soluble	Solid	300.0	25818
LCSD 880-25818/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	25818
880-14909-2 MS	BH2	Soluble	Solid	300.0	25818
880-14909-2 MSD	BH2	Soluble	Solid	300.0	25818

Eurofins Midland

Lab Chronicle

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14909-1
SDG: Lea Co. NM

Client Sample ID: BH1

Lab Sample ID: 880-14909-1

Date Collected: 05/17/22 08:10

Matrix: Solid

Date Received: 05/17/22 16:12

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	25814	05/18/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	25815	05/18/22 23:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25892	05/19/22 11:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25864	05/19/22 08:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	25829	05/18/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25770	05/19/22 03:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	25818	05/18/22 14:06	CH	XEN MID
Soluble	Analysis	300.0		5			25929	05/20/22 13:52	CH	XEN MID

Client Sample ID: BH2

Lab Sample ID: 880-14909-2

Date Collected: 05/17/22 08:40

Matrix: Solid

Date Received: 05/17/22 16:12

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	25814	05/18/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25815	05/18/22 22:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25892	05/19/22 11:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25864	05/19/22 08:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25829	05/18/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25770	05/19/22 04:07	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	25818	05/18/22 14:06	CH	XEN MID
Soluble	Analysis	300.0		5			25929	05/20/22 14:12	CH	XEN MID

Client Sample ID: BH3

Lab Sample ID: 880-14909-3

Date Collected: 05/17/22 09:10

Matrix: Solid

Date Received: 05/17/22 16:12

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	25814	05/18/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	25815	05/18/22 23:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25892	05/19/22 11:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25864	05/19/22 08:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25829	05/18/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25770	05/19/22 03:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	25818	05/18/22 14:06	CH	XEN MID
Soluble	Analysis	300.0		5			25929	05/20/22 14:34	CH	XEN MID

Client Sample ID: BH4

Lab Sample ID: 880-14909-4

Date Collected: 05/17/22 09:40

Matrix: Solid

Date Received: 05/17/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	25814	05/18/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25815	05/18/22 22:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25892	05/19/22 11:35	SM	XEN MID

Eurofins Midland

Lab Chronicle

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14909-1
SDG: Lea Co. NM

Client Sample ID: BH4

Lab Sample ID: 880-14909-4

Date Collected: 05/17/22 09:40

Matrix: Solid

Date Received: 05/17/22 16:12

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			25864	05/19/22 08:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25829	05/18/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25770	05/19/22 04:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	25818	05/18/22 14:06	CH	XEN MID
Soluble	Analysis	300.0		5			25929	05/20/22 14:41	CH	XEN MID

Client Sample ID: BH5

Lab Sample ID: 880-14909-5

Date Collected: 05/17/22 10:10

Matrix: Solid

Date Received: 05/17/22 16:12

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	25814	05/18/22 12:18	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25815	05/18/22 22:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25892	05/19/22 11:35	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25864	05/19/22 08:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25829	05/18/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25770	05/19/22 04:49	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	25818	05/18/22 14:06	CH	XEN MID
Soluble	Analysis	300.0		1			25929	05/20/22 15:04	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14909-1
SDG: Lea Co. NM

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	T104704400-21-22	06-30-22

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	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14909-1
SDG: Lea Co. NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Sample Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14909-1
SDG: Lea Co. NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-14909-1	BH1	Solid	05/17/22 08:10	05/17/22 16:12	1'
880-14909-2	BH2	Solid	05/17/22 08:40	05/17/22 16:12	1'
880-14909-3	BH3	Solid	05/17/22 09:10	05/17/22 16:12	1'
880-14909-4	BH4	Solid	05/17/22 09:40	05/17/22 16:12	1'
880-14909-5	BH5	Solid	05/17/22 10:10	05/17/22 16:12	1'



Environmental Testing
Xenoco

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

Work Order No: 14909

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Project Manager	Grant Huckabay	Bill to (if different)	
Company Name	Fasken Oil and Ranch	Company Name	
Address	6101 Holiday Hill Road	Address	
City State ZIP	Midland TX 79707	City State ZIP	
Phone	432-687-1777	Email	granth@foi.com / addisong@foi.com

Work Order Comments	
Program	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project	
Reporting Level	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables	EDD ☐ ADAPT ☐ Other

Project Name	DEPTON SMD SYSTEM	Turn Around	☒ Routine ☐ Rush	Pres. Code		ANALYSIS REQUEST		Preservative Codes	
Project Number		Due Date	5/23/22					None NO DI Water H ₂ O	
Project Location	LEA Co. NM	TAT starts the day received by the lab if received by 4:30pm							Cool Cool MeOH Me
Sampler's Name	Addison Guetker								HCL HC HNO ₃ HN
PO #									H ₂ SO ₄ H ₂ NaOH Na
SAMPLE RECEIPT	Temp Blank Yes (No) No	Wet Ice	Yes (No) No						H ₃ PO ₄ HP
Samples Received Intact	Yes (No) No	Thermometer ID							NaHSO ₄ NABIS
Cooler Custody Seals	Yes No	Correction Factor							Na ₂ S ₂ O ₃ NaSO ₃
Sample Custody Seals	Yes No	Temperature Reading							Zn Acetate+NaOH Zn
Total Containers	Corrected Temperature								NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	EC	TPH 8015M	BTEX 8021B	Sample Comments										
BH1	S	5/17/2022	4:10	1'	G	1		X	X											
BH2	S	5/17/22	8:40	1'	G	1		X	X											
BH3	S		9:10	1'				X	X											
BH4	S		9:40	1'				X	X											
BH5	S		10:10	1'				X	X											
	S																			
	S																			
	S																			
	S																			
	S																			



880-14909 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	SiO ₂	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																

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenoco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenoco 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 Xenoco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenoco, 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
1. <i>Addison</i>	<i>Grant Huckabay</i>	5/17/22	2.		
3.		16/22	4.		
5.			6.		

Login Sample Receipt Checklist

Client: Fasken Oil and Ranch

Job Number: 880-14909-1

SDG Number: Lea Co. NM

Login Number: 14909

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	



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-14905-1

Laboratory Sample Delivery Group: Lea Co. NM
Client Project/Site: Denton SWD System

For:

Fasken Oil and Ranch
6101 Holiday Hill Road
Midland, Texas 79707

Attn: Grant Huckabay

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

5/23/2022 10:57:49 AM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Laboratory Job ID: 880-14905-1
SDG: Lea Co. NM

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Definitions/Glossary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14905-1
SDG: Lea Co. NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.
□	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: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14905-1
SDG: Lea Co. NM

Job ID: 880-14905-1

Laboratory: Eurofins Midland

Narrative	Job Narrative 880-14905-1
-----------	------------------------------

Receipt

The sample was received on 5/17/2022 4:12 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-25961 and analytical batch 880-25945 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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.

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14905-1
SDG: Lea Co. NM

Client Sample ID: BH6

Lab Sample ID: 880-14905-1

Date Collected: 05/17/22 11:00

Matrix: Solid

Date Received: 05/17/22 16:12

Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/20/22 15:30	05/21/22 14:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/20/22 15:30	05/21/22 14:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/20/22 15:30	05/21/22 14:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/20/22 15:30	05/21/22 14:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/20/22 15:30	05/21/22 14:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/20/22 15:30	05/21/22 14:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	05/20/22 15:30	05/21/22 14:10	1
1,4-Difluorobenzene (Surr)	92		70 - 130	05/20/22 15:30	05/21/22 14:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/23/22 11:27	1

Method: 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		mg/Kg			05/19/22 08:18	1

Method: 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		mg/Kg		05/18/22 09:02	05/18/22 18:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/18/22 09:02	05/18/22 18:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/18/22 09:02	05/18/22 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	05/18/22 09:02	05/18/22 18:10	1
o-Terphenyl	115		70 - 130	05/18/22 09:02	05/18/22 18:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9140		99.0		mg/Kg			05/20/22 12:53	20

Eurofins Midland

Surrogate Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14905-1
SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-14905-1	BH6	127	92
890-2317-A-5-C MS	Matrix Spike	124	92
890-2317-A-5-D MSD	Matrix Spike Duplicate	121	82
LCS 880-25961/1-A	Lab Control Sample	116	103
LCSD 880-25961/2-A	Lab Control Sample Dup	115	99
MB 880-25948/5-A	Method Blank	86	88
MB 880-25961/5-A	Method Blank	89	86
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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-14856-A-1-F MS	Matrix Spike	110	103
880-14856-A-1-G MSD	Matrix Spike Duplicate	97	94
880-14905-1	BH6	102	115
LCS 880-25793/2-A	Lab Control Sample	102	109
LCSD 880-25793/3-A	Lab Control Sample Dup	104	104
MB 880-25793/1-A	Method Blank	125	146 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14905-1
SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25948/5-A

Matrix: Solid

Analysis Batch: 25945

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25948

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000400	U	0.000400		mg/Kg		05/20/22 09:18	05/20/22 17:07	1
Toluene	<0.000400	U	0.000400		mg/Kg		05/20/22 09:18	05/20/22 17:07	1
Ethylbenzene	<0.000400	U	0.000400		mg/Kg		05/20/22 09:18	05/20/22 17:07	1
m-Xylene & p-Xylene	<0.000800	U	0.000800		mg/Kg		05/20/22 09:18	05/20/22 17:07	1
o-Xylene	<0.000400	U	0.000400		mg/Kg		05/20/22 09:18	05/20/22 17:07	1
Xylenes, Total	<0.000800	U	0.000800		mg/Kg		05/20/22 09:18	05/20/22 17:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	05/20/22 09:18	05/20/22 17:07	1
1,4-Difluorobenzene (Surr)	88		70 - 130	05/20/22 09:18	05/20/22 17:07	1

Lab Sample ID: MB 880-25961/5-A

Matrix: Solid

Analysis Batch: 25945

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25961

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/22 09:25	05/21/22 06:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/22 09:25	05/21/22 06:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/22 09:25	05/21/22 06:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/20/22 09:25	05/21/22 06:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/22 09:25	05/21/22 06:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/20/22 09:25	05/21/22 06:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	05/20/22 09:25	05/21/22 06:40	1
1,4-Difluorobenzene (Surr)	86		70 - 130	05/20/22 09:25	05/21/22 06:40	1

Lab Sample ID: LCS 880-25961/1-A

Matrix: Solid

Analysis Batch: 25945

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25961

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1251		mg/Kg		125	70 - 130
Toluene	0.100	0.1152		mg/Kg		115	70 - 130
Ethylbenzene	0.100	0.1121		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	0.200	0.2264		mg/Kg		113	70 - 130
o-Xylene	0.100	0.1126		mg/Kg		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-25961/2-A

Matrix: Solid

Analysis Batch: 25945

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25961

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1109		mg/Kg		111	70 - 130	12	35

Eurofins Midland

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14905-1
SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-25961/2-A

Matrix: Solid

Analysis Batch: 25945

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25961

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09968		mg/Kg		100	70 - 130	14	35
Ethylbenzene	0.100	0.1006		mg/Kg		101	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.2035		mg/Kg		102	70 - 130	11	35
o-Xylene	0.100	0.1018		mg/Kg		102	70 - 130	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-2317-A-5-C MS

Matrix: Solid

Analysis Batch: 25945

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25961

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F2 F1	0.100	0.02880	F1	mg/Kg		29	70 - 130
Toluene	<0.00199	U F2 F1	0.100	0.03226	F1	mg/Kg		32	70 - 130
Ethylbenzene	<0.00199	U F2 F1	0.100	0.03096	F1	mg/Kg		31	70 - 130
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.200	0.06426	F1	mg/Kg		32	70 - 130
o-Xylene	<0.00199	U F2 F1	0.100	0.03583	F1	mg/Kg		36	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 890-2317-A-5-D MSD

Matrix: Solid

Analysis Batch: 25945

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25961

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F2 F1	0.101	0.09361	F2	mg/Kg		93	70 - 130	106	35
Toluene	<0.00199	U F2 F1	0.101	0.09356	F2	mg/Kg		93	70 - 130	97	35
Ethylbenzene	<0.00199	U F2 F1	0.101	0.08576	F2	mg/Kg		85	70 - 130	94	35
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.202	0.1698	F2	mg/Kg		84	70 - 130	90	35
o-Xylene	<0.00199	U F2 F1	0.101	0.08523	F2	mg/Kg		84	70 - 130	82	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	82		70 - 130

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

Lab Sample ID: MB 880-25793/1-A

Matrix: Solid

Analysis Batch: 25772

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25793

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/18/22 09:02	05/18/22 11:29	1

Eurofins Midland

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14905-1
SDG: Lea Co. NM

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

Lab Sample ID: MB 880-25793/1-A

Matrix: Solid

Analysis Batch: 25772

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25793

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/18/22 09:02	05/18/22 11:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/18/22 09:02	05/18/22 11:29	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				05/18/22 09:02	05/18/22 11:29	1
o-Terphenyl	146	S1+	70 - 130				05/18/22 09:02	05/18/22 11:29	1

Lab Sample ID: LCS 880-25793/2-A

Matrix: Solid

Analysis Batch: 25772

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25793

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1132		mg/Kg		113	70 - 130
Diesel Range Organics (Over C10-C28)	1000	861.2		mg/Kg		86	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	102		70 - 130				
o-Terphenyl	109		70 - 130				

Lab Sample ID: LCSD 880-25793/3-A

Matrix: Solid

Analysis Batch: 25772

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25793

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1105		mg/Kg		111	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	823.0		mg/Kg		82	70 - 130	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	104		70 - 130						
o-Terphenyl	104		70 - 130						

Lab Sample ID: 880-14856-A-1-F MS

Matrix: Solid

Analysis Batch: 25772

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25793

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	98.5	F1	1000	1616	F1	mg/Kg		152	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1204		mg/Kg		120	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	110		70 - 130						
o-Terphenyl	103		70 - 130						

Eurofins Midland

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14905-1
SDG: Lea Co. NM

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

Lab Sample ID: 880-14856-A-1-G MSD

Matrix: Solid

Analysis Batch: 25772

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25793

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	98.5	F1	999	1379		mg/Kg		128	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1072		mg/Kg		107	70 - 130	12	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	97		70 - 130								
o-Terphenyl	94		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-25818/1-A

Matrix: Solid

Analysis Batch: 25929

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/20/22 11:53	1

Lab Sample ID: LCS 880-25818/2-A

Matrix: Solid

Analysis Batch: 25929

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	263.7		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-25818/3-A

Matrix: Solid

Analysis Batch: 25929

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	262.7		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-14909-A-2-B MS

Matrix: Solid

Analysis Batch: 25929

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2500		1250	3778		mg/Kg		102	90 - 110

Lab Sample ID: 880-14909-A-2-C MSD

Matrix: Solid

Analysis Batch: 25929

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2500		1250	3777		mg/Kg		102	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14905-1
SDG: Lea Co. NM

GC VOA

Analysis Batch: 25945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14905-1	BH6	Total/NA	Solid	8021B	25961
MB 880-25948/5-A	Method Blank	Total/NA	Solid	8021B	25948
MB 880-25961/5-A	Method Blank	Total/NA	Solid	8021B	25961
LCS 880-25961/1-A	Lab Control Sample	Total/NA	Solid	8021B	25961
LCSD 880-25961/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25961
890-2317-A-5-C MS	Matrix Spike	Total/NA	Solid	8021B	25961
890-2317-A-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	25961

Prep Batch: 25948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-25948/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 25961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14905-1	BH6	Total/NA	Solid	5035	
MB 880-25961/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25961/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25961/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2317-A-5-C MS	Matrix Spike	Total/NA	Solid	5035	
890-2317-A-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 26095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14905-1	BH6	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 25772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14905-1	BH6	Total/NA	Solid	8015B NM	25793
MB 880-25793/1-A	Method Blank	Total/NA	Solid	8015B NM	25793
LCS 880-25793/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	25793
LCSD 880-25793/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	25793
880-14856-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	25793
880-14856-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	25793

Prep Batch: 25793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14905-1	BH6	Total/NA	Solid	8015NM Prep	
MB 880-25793/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-25793/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-25793/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-14856-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-14856-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 25854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14905-1	BH6	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14905-1
SDG: Lea Co. NM

HPLC/IC

Leach Batch: 25818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14905-1	BH6	Soluble	Solid	DI Leach	
MB 880-25818/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-25818/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-25818/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-14909-A-2-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-14909-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 25929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14905-1	BH6	Soluble	Solid	300.0	25818
MB 880-25818/1-A	Method Blank	Soluble	Solid	300.0	25818
LCS 880-25818/2-A	Lab Control Sample	Soluble	Solid	300.0	25818
LCSD 880-25818/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	25818
880-14909-A-2-B MS	Matrix Spike	Soluble	Solid	300.0	25818
880-14909-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	25818

Lab Chronicle

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14905-1
SDG: Lea Co. NM

Client Sample ID: BH6

Lab Sample ID: 880-14905-1

Date Collected: 05/17/22 11:00

Matrix: Solid

Date Received: 05/17/22 16:12

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	25961	05/20/22 15:30	MR	XEN MID
Total/NA	Analysis	8021B		1			25945	05/21/22 14:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26095	05/23/22 11:27	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25854	05/19/22 08:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25793	05/18/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25772	05/18/22 18:10	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	25818	05/18/22 14:06	CH	XEN MID
Soluble	Analysis	300.0		20			25929	05/20/22 12:53	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14905-1
SDG: Lea Co. NM

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	T104704400-21-22	06-30-22

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

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

Method Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14905-1
SDG: Lea Co. NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Sample Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14905-1
SDG: Lea Co. NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-14905-1	BH6	Solid	05/17/22 11:00	05/17/22 16:12	1'

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



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

Chain of Custody

Work Order No: 7-105

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Project Manager	Grant Huckabay	Bill to (if different)	
Company Name	Fasken Oil and Ranch	Company Name	
Address	6101 Holiday Hill Road	Address	
City, State ZIP	Midland TX 79707	City, State ZIP	
Phone	432-687-1777	Email	granth@forl.com / addisong@forl.com

Work Order Comments	
Program	USTR/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project	
Reporting Level	I ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables	EDD ☐ ADAPT ☐ Other ☐

Project Name		Turn Around		ANALYSIS REQUEST												Preservative Codes		
Project Number		☒ Routine	☐ Rush	Pres. Code												None NO	DI Water- H ₂ O	
Project Location	LEA Co. NM	Due Date	5/23/22													Cool Cool	MeOH Me	
Sampler's Name	Addison Guetker	TAT starts the day received by the lab if received by 4:30pm														HCL HC	HNO ₃ HN	
PO #																H ₂ SO ₄ H ₂	NaOH Na	
SAMPLE RECEIPT		Temp Blank	Yes ☒ No ☐	Wet Ice	Yes ☒ No ☐	Parameters												H ₃ PO ₄ HP
Samples Received Intact:		Yes ☒ No ☐	Thermometer ID	TATP													NaHSO ₄ NABIS	
Cooler Custody Seals		Yes ☒ No ☐	Correction Factor	-22													Na ₂ S ₂ O ₃ NaSO ₃	
Sample Custody Seals		Yes ☒ No ☐	Temperature Reading	5.8													Zn Acetate+NaOH Zn	
Total Containers		Corrected Temperature		5.6													NaOH+Ascorbic Acid SAPC	
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CL	EC	TPH 8015M	BTEX 8021B							Sample Comments	
BH6	S	5/17/2022	11:00	1'	G	1	X		X	X								
	S																	
	S																	
	S																	
	S																	
	S																	
	S																	
	S																	
	S																	
	S																	
880-14905 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 SiO ₂ 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													
1. Addison	2. [Signature]	5/17/22	3. [Signature]	4. [Signature]	16:12													
5																		

Login Sample Receipt Checklist

Client: Fasken Oil and Ranch

Job Number: 880-14905-1

SDG Number: Lea Co. NM

Login Number: 14905

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	



Environment Testing
America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-14906-1

Laboratory Sample Delivery Group: Lea Co. NM
Client Project/Site: Denton SWD System

For:

Fasken Oil and Ranch
6101 Holiday Hill Road
Midland, Texas 79707

Attn: Grant Huckabay

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
5/20/2022 3:57:43 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Laboratory Job ID: 880-14906-1
SDG: Lea Co. NM

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Definitions/Glossary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14906-1
SDG: Lea Co. NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.
□	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: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14906-1
SDG: Lea Co. NM

Job ID: 880-14906-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-14906-1****Receipt**

The sample was received on 5/17/2022 4:12 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-25894 and analytical batch 880-25870 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-25894 and analytical batch 880-25870 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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.

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14906-1
SDG: Lea Co. NM

Client Sample ID: BG

Lab Sample ID: 880-14906-1

Date Collected: 05/17/22 12:20

Matrix: Solid

Date Received: 05/17/22 16:12

Sample Depth: 0-6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		05/19/22 11:46	05/19/22 13:48	1
Toluene	<0.00200	U F2 F1	0.00200		mg/Kg		05/19/22 11:46	05/19/22 13:48	1
Ethylbenzene	<0.00200	U F2 F1	0.00200		mg/Kg		05/19/22 11:46	05/19/22 13:48	1
m-Xylene & p-Xylene	<0.00401	U F2 F1	0.00401		mg/Kg		05/19/22 11:46	05/19/22 13:48	1
o-Xylene	<0.00200	U F2 F1	0.00200		mg/Kg		05/19/22 11:46	05/19/22 13:48	1
Xylenes, Total	<0.00401	U F2 F1	0.00401		mg/Kg		05/19/22 11:46	05/19/22 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	05/19/22 11:46	05/19/22 13:48	1
1,4-Difluorobenzene (Surr)	101		70 - 130	05/19/22 11:46	05/19/22 13:48	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/20/22 12:04	1

Method: 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		mg/Kg			05/19/22 08:18	1

Method: 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		mg/Kg		05/18/22 09:02	05/18/22 18:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/18/22 09:02	05/18/22 18:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/18/22 09:02	05/18/22 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	05/18/22 09:02	05/18/22 18:32	1
o-Terphenyl	124		70 - 130	05/18/22 09:02	05/18/22 18:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.7		4.97		mg/Kg			05/20/22 13:00	1

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Surrogate Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14906-1
SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-14906-1	BG	104	101
880-14906-1 MS	BG	99	102
880-14906-1 MSD	BG	106	102
LCS 880-25894/1-A	Lab Control Sample	98	99
LCSD 880-25894/2-A	Lab Control Sample Dup	104	99
MB 880-25894/5-A	Method Blank	97	97
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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-14856-A-1-F MS	Matrix Spike	110	103
880-14856-A-1-G MSD	Matrix Spike Duplicate	97	94
880-14906-1	BG	105	124
LCS 880-25793/2-A	Lab Control Sample	102	109
LCSD 880-25793/3-A	Lab Control Sample Dup	104	104
MB 880-25793/1-A	Method Blank	125	146 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14906-1
SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25894/5-A

Matrix: Solid

Analysis Batch: 25870

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25894

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/19/22 11:46	05/19/22 13:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/19/22 11:46	05/19/22 13:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/19/22 11:46	05/19/22 13:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/19/22 11:46	05/19/22 13:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/19/22 11:46	05/19/22 13:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/19/22 11:46	05/19/22 13:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	05/19/22 11:46	05/19/22 13:19	1
1,4-Difluorobenzene (Surr)	97		70 - 130	05/19/22 11:46	05/19/22 13:19	1

Lab Sample ID: LCS 880-25894/1-A

Matrix: Solid

Analysis Batch: 25870

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25894

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09254		mg/Kg		93	70 - 130
Toluene	0.100	0.1005		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.1162		mg/Kg		116	70 - 130
m-Xylene & p-Xylene	0.200	0.2082		mg/Kg		104	70 - 130
o-Xylene	0.100	0.09838		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-25894/2-A

Matrix: Solid

Analysis Batch: 25870

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25894

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07898		mg/Kg		79	70 - 130	16	35
Toluene	0.100	0.08022		mg/Kg		80	70 - 130	22	35
Ethylbenzene	0.100	0.09297		mg/Kg		93	70 - 130	22	35
m-Xylene & p-Xylene	0.200	0.1698		mg/Kg		85	70 - 130	20	35
o-Xylene	0.100	0.08165		mg/Kg		82	70 - 130	19	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-14906-1 MS

Matrix: Solid

Analysis Batch: 25870

Client Sample ID: BG

Prep Type: Total/NA

Prep Batch: 25894

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1	0.0992	0.07972		mg/Kg		80	70 - 130
Toluene	<0.00200	U F2 F1	0.0992	0.07222		mg/Kg		72	70 - 130

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QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14906-1
SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-14906-1 MS

Matrix: Solid

Analysis Batch: 25870

Client Sample ID: BG

Prep Type: Total/NA

Prep Batch: 25894

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F2 F1	0.0992	0.07570		mg/Kg		76	70 - 130
m-Xylene & p-Xylene	<0.00401	U F2 F1	0.198	0.1350	F1	mg/Kg		68	70 - 130
o-Xylene	<0.00200	U F2 F1	0.0992	0.06454	F1	mg/Kg		65	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-14906-1 MSD

Matrix: Solid

Analysis Batch: 25870

Client Sample ID: BG

Prep Type: Total/NA

Prep Batch: 25894

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0994	0.05816	F1	mg/Kg		59	70 - 130	31	35
Toluene	<0.00200	U F2 F1	0.0994	0.02184	F2 F1	mg/Kg		21	70 - 130	107	35
Ethylbenzene	<0.00200	U F2 F1	0.0994	0.04289	F2 F1	mg/Kg		43	70 - 130	55	35
m-Xylene & p-Xylene	<0.00401	U F2 F1	0.199	0.07658	F2 F1	mg/Kg		39	70 - 130	55	35
o-Xylene	<0.00200	U F2 F1	0.0994	0.03794	F2 F1	mg/Kg		38	70 - 130	52	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-25793/1-A

Matrix: Solid

Analysis Batch: 25772

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25793

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/18/22 09:02	05/18/22 11:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/18/22 09:02	05/18/22 11:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/18/22 09:02	05/18/22 11:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130	05/18/22 09:02	05/18/22 11:29	1
o-Terphenyl	146	S1+	70 - 130	05/18/22 09:02	05/18/22 11:29	1

Lab Sample ID: LCS 880-25793/2-A

Matrix: Solid

Analysis Batch: 25772

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25793

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1132		mg/Kg		113	70 - 130
Diesel Range Organics (Over C10-C28)	1000	861.2		mg/Kg		86	70 - 130

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QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14906-1
SDG: Lea Co. NM

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

Lab Sample ID: LCS 880-25793/2-A

Matrix: Solid

Analysis Batch: 25772

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25793

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: LCSD 880-25793/3-A

Matrix: Solid

Analysis Batch: 25772

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25793

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1105		mg/Kg		111	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	823.0		mg/Kg		82	70 - 130	5	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 880-14856-A-1-F MS

Matrix: Solid

Analysis Batch: 25772

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25793

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	98.5	F1	1000	1616	F1	mg/Kg		152	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1204		mg/Kg		120	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: 880-14856-A-1-G MSD

Matrix: Solid

Analysis Batch: 25772

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25793

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	98.5	F1	999	1379		mg/Kg		128	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1072		mg/Kg		107	70 - 130	12	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	94		70 - 130

Eurofins Midland

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14906-1
SDG: Lea Co. NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-25818/1-A

Matrix: Solid

Analysis Batch: 25929

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/20/22 11:53	1

Lab Sample ID: LCS 880-25818/2-A

Matrix: Solid

Analysis Batch: 25929

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	263.7		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-25818/3-A

Matrix: Solid

Analysis Batch: 25929

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	262.7		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-14909-A-2-B MS

Matrix: Solid

Analysis Batch: 25929

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2500		1250	3778		mg/Kg		102	90 - 110

Lab Sample ID: 880-14909-A-2-C MSD

Matrix: Solid

Analysis Batch: 25929

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2500		1250	3777		mg/Kg		102	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14906-1
SDG: Lea Co. NM

GC VOA

Analysis Batch: 25870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14906-1	BG	Total/NA	Solid	8021B	25894
MB 880-25894/5-A	Method Blank	Total/NA	Solid	8021B	25894
LCS 880-25894/1-A	Lab Control Sample	Total/NA	Solid	8021B	25894
LCSD 880-25894/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25894
880-14906-1 MS	BG	Total/NA	Solid	8021B	25894
880-14906-1 MSD	BG	Total/NA	Solid	8021B	25894

Prep Batch: 25894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14906-1	BG	Total/NA	Solid	5035	
MB 880-25894/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25894/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25894/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14906-1 MS	BG	Total/NA	Solid	5035	
880-14906-1 MSD	BG	Total/NA	Solid	5035	

Analysis Batch: 25976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14906-1	BG	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 25772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14906-1	BG	Total/NA	Solid	8015B NM	25793
MB 880-25793/1-A	Method Blank	Total/NA	Solid	8015B NM	25793
LCS 880-25793/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	25793
LCSD 880-25793/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	25793
880-14856-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	25793
880-14856-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	25793

Prep Batch: 25793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14906-1	BG	Total/NA	Solid	8015NM Prep	
MB 880-25793/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-25793/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-25793/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-14856-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-14856-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 25855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14906-1	BG	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 25818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14906-1	BG	Soluble	Solid	DI Leach	
MB 880-25818/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-25818/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-25818/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14906-1
SDG: Lea Co. NM

HPLC/IC (Continued)

Leach Batch: 25818 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14909-A-2-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-14909-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 25929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14906-1	BG	Soluble	Solid	300.0	25818
MB 880-25818/1-A	Method Blank	Soluble	Solid	300.0	25818
LCS 880-25818/2-A	Lab Control Sample	Soluble	Solid	300.0	25818
LCSD 880-25818/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	25818
880-14909-A-2-B MS	Matrix Spike	Soluble	Solid	300.0	25818
880-14909-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	25818

Lab Chronicle

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14906-1
SDG: Lea Co. NM

Client Sample ID: BG
Date Collected: 05/17/22 12:20
Date Received: 05/17/22 16:12

Lab Sample ID: 880-14906-1
Matrix: Solid

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	25894	05/19/22 11:46	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25870	05/19/22 13:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25976	05/20/22 12:04	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25855	05/19/22 08:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25793	05/18/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25772	05/18/22 18:32	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	25818	05/18/22 14:06	CH	XEN MID
Soluble	Analysis	300.0		1			25929	05/20/22 13:00	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14906-1
SDG: Lea Co. NM

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	T104704400-21-22	06-30-22

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

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

Method Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14906-1
SDG: Lea Co. NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Sample Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14906-1
SDG: Lea Co. NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-14906-1	BG	Solid	05/17/22 12:20	05/17/22 16:12	0-6"

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



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

Chain of Custody

Work Order No: 1904

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Project Manager	Grant Huckabay	Bill to (if different)	
Company Name	Fasken Oil and Ranch	Company Name	
Address	6101 Holiday Hill Road	Address	
City, State ZIP	Midland TX 79707	City, State ZIP	
Phone	432-687-1777	Email	granth@forl.com / addisong@forl.com

Work Order Comments	
Program. UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project	
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other	

[illegible]

880-14906 Chain of Custody

[illegible]

Login Sample Receipt Checklist

Client: Fasken Oil and Ranch

Job Number: 880-14906-1

SDG Number: Lea Co. NM

Login Number: 14906

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	



Environment Testing
America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-14908-1

Laboratory Sample Delivery Group: Lea Co. NM
Client Project/Site: Denton SWD System

For:

Fasken Oil and Ranch
6101 Holiday Hill Road
Midland, Texas 79707

Attn: Grant Huckabay

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

5/20/2022 3:58:18 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Laboratory Job ID: 880-14908-1
SDG: Lea Co. NM

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1

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Definitions/Glossary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14908-1
SDG: Lea Co. NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.
□	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: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14908-1
SDG: Lea Co. NM

Job ID: 880-14908-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-14908-1****Receipt**

The samples were received on 5/17/2022 4:12 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 5.6°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-25894 and analytical batch 880-25870 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-25894 and analytical batch 880-25870 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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.

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14908-1
SDG: Lea Co. NM

Client Sample ID: H1

Lab Sample ID: 880-14908-1

Date Collected: 05/17/22 11:55

Matrix: Solid

Date Received: 05/17/22 16:12

Sample Depth: 0-6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/19/22 11:46	05/19/22 14:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/19/22 11:46	05/19/22 14:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/19/22 11:46	05/19/22 14:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/19/22 11:46	05/19/22 14:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/19/22 11:46	05/19/22 14:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/19/22 11:46	05/19/22 14:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	05/19/22 11:46	05/19/22 14:29	1
1,4-Difluorobenzene (Surr)	99		70 - 130	05/19/22 11:46	05/19/22 14:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/20/22 12:04	1

Method: 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		mg/Kg			05/19/22 08:18	1

Method: 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		mg/Kg		05/18/22 09:02	05/18/22 18:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/18/22 09:02	05/18/22 18:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/18/22 09:02	05/18/22 18:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	05/18/22 09:02	05/18/22 18:53	1
o-Terphenyl	127		70 - 130	05/18/22 09:02	05/18/22 18:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.8		4.98		mg/Kg			05/20/22 13:30	1

Client Sample ID: H3

Lab Sample ID: 880-14908-2

Date Collected: 05/17/22 11:45

Matrix: Solid

Date Received: 05/17/22 16:12

Sample Depth: 0-6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/19/22 11:46	05/19/22 14:50	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/19/22 11:46	05/19/22 14:50	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/19/22 11:46	05/19/22 14:50	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/19/22 11:46	05/19/22 14:50	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/19/22 11:46	05/19/22 14:50	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/19/22 11:46	05/19/22 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	05/19/22 11:46	05/19/22 14:50	1

Eurofins Midland

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14908-1
SDG: Lea Co. NM

Client Sample ID: H3

Lab Sample ID: 880-14908-2

Date Collected: 05/17/22 11:45

Matrix: Solid

Date Received: 05/17/22 16:12

Sample Depth: 0-6"

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	05/19/22 11:46	05/19/22 14:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/20/22 12:04	1

Method: 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		mg/Kg			05/19/22 08:18	1

Method: 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		mg/Kg		05/18/22 09:02	05/18/22 19:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/18/22 09:02	05/18/22 19:13	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/18/22 09:02	05/18/22 19:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				05/18/22 09:02	05/18/22 19:13	1
o-Terphenyl	121		70 - 130				05/18/22 09:02	05/18/22 19:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	300		5.04		mg/Kg			05/20/22 13:37	1

Client Sample ID: H4

Lab Sample ID: 880-14908-3

Date Collected: 05/17/22 11:35

Matrix: Solid

Date Received: 05/17/22 16:12

Sample Depth: 0-6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/19/22 11:46	05/19/22 20:06	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/19/22 11:46	05/19/22 20:06	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/19/22 11:46	05/19/22 20:06	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/19/22 11:46	05/19/22 20:06	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/19/22 11:46	05/19/22 20:06	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/19/22 11:46	05/19/22 20:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	05/19/22 11:46	05/19/22 20:06	1
1,4-Difluorobenzene (Surr)	99		70 - 130	05/19/22 11:46	05/19/22 20:06	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/20/22 12:04	1

Method: 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		mg/Kg			05/19/22 08:18	1

Eurofins Midland

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14908-1
SDG: Lea Co. NM

Client Sample ID: H4

Lab Sample ID: 880-14908-3

Date Collected: 05/17/22 11:35

Matrix: Solid

Date Received: 05/17/22 16:12

Sample Depth: 0-6"

Method: 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		mg/Kg		05/18/22 09:02	05/18/22 19:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/18/22 09:02	05/18/22 19:34	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/18/22 09:02	05/18/22 19:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				05/18/22 09:02	05/18/22 19:34	1
o-Terphenyl	119		70 - 130				05/18/22 09:02	05/18/22 19:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		4.99		mg/Kg			05/20/22 13:45	1

Surrogate Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14908-1
SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-14906-A-1-D MS	Matrix Spike	99	102
880-14906-A-1-E MSD	Matrix Spike Duplicate	106	102
880-14908-1	H1	101	99
880-14908-2	H3	108	101
880-14908-3	H4	109	99
LCS 880-25894/1-A	Lab Control Sample	98	99
LCSD 880-25894/2-A	Lab Control Sample Dup	104	99
MB 880-25894/5-A	Method Blank	97	97
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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-14856-A-1-F MS	Matrix Spike	110	103
880-14856-A-1-G MSD	Matrix Spike Duplicate	97	94
880-14908-1	H1	110	127
880-14908-2	H3	106	121
880-14908-3	H4	106	119
LCS 880-25793/2-A	Lab Control Sample	102	109
LCSD 880-25793/3-A	Lab Control Sample Dup	104	104
MB 880-25793/1-A	Method Blank	125	146 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14908-1
SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25894/5-A

Matrix: Solid

Analysis Batch: 25870

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25894

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/19/22 11:46	05/19/22 13:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/19/22 11:46	05/19/22 13:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/19/22 11:46	05/19/22 13:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/19/22 11:46	05/19/22 13:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/19/22 11:46	05/19/22 13:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/19/22 11:46	05/19/22 13:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	05/19/22 11:46	05/19/22 13:19	1
1,4-Difluorobenzene (Surr)	97		70 - 130	05/19/22 11:46	05/19/22 13:19	1

Lab Sample ID: LCS 880-25894/1-A

Matrix: Solid

Analysis Batch: 25870

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25894

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09254		mg/Kg		93	70 - 130
Toluene	0.100	0.1005		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.1162		mg/Kg		116	70 - 130
m-Xylene & p-Xylene	0.200	0.2082		mg/Kg		104	70 - 130
o-Xylene	0.100	0.09838		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-25894/2-A

Matrix: Solid

Analysis Batch: 25870

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25894

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07898		mg/Kg		79	70 - 130	16	35
Toluene	0.100	0.08022		mg/Kg		80	70 - 130	22	35
Ethylbenzene	0.100	0.09297		mg/Kg		93	70 - 130	22	35
m-Xylene & p-Xylene	0.200	0.1698		mg/Kg		85	70 - 130	20	35
o-Xylene	0.100	0.08165		mg/Kg		82	70 - 130	19	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-14906-A-1-D MS

Matrix: Solid

Analysis Batch: 25870

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25894

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1	0.0992	0.07972		mg/Kg		80	70 - 130
Toluene	<0.00200	U F2 F1	0.0992	0.07222		mg/Kg		72	70 - 130

Eurofins Midland

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14908-1
SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-14906-A-1-D MS

Matrix: Solid

Analysis Batch: 25870

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25894

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F2 F1	0.0992	0.07570		mg/Kg		76	70 - 130
m-Xylene & p-Xylene	<0.00401	U F2 F1	0.198	0.1350	F1	mg/Kg		68	70 - 130
o-Xylene	<0.00200	U F2 F1	0.0992	0.06454	F1	mg/Kg		65	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-14906-A-1-E MSD

Matrix: Solid

Analysis Batch: 25870

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25894

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0994	0.05816	F1	mg/Kg		59	70 - 130	31	35
Toluene	<0.00200	U F2 F1	0.0994	0.02184	F2 F1	mg/Kg		21	70 - 130	107	35
Ethylbenzene	<0.00200	U F2 F1	0.0994	0.04289	F2 F1	mg/Kg		43	70 - 130	55	35
m-Xylene & p-Xylene	<0.00401	U F2 F1	0.199	0.07658	F2 F1	mg/Kg		39	70 - 130	55	35
o-Xylene	<0.00200	U F2 F1	0.0994	0.03794	F2 F1	mg/Kg		38	70 - 130	52	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-25793/1-A

Matrix: Solid

Analysis Batch: 25772

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25793

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/18/22 09:02	05/18/22 11:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/18/22 09:02	05/18/22 11:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/18/22 09:02	05/18/22 11:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130	05/18/22 09:02	05/18/22 11:29	1
o-Terphenyl	146	S1+	70 - 130	05/18/22 09:02	05/18/22 11:29	1

Lab Sample ID: LCS 880-25793/2-A

Matrix: Solid

Analysis Batch: 25772

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25793

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1132		mg/Kg		113	70 - 130
Diesel Range Organics (Over C10-C28)	1000	861.2		mg/Kg		86	70 - 130

Eurofins Midland

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14908-1
SDG: Lea Co. NM

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

Lab Sample ID: LCS 880-25793/2-A

Matrix: Solid

Analysis Batch: 25772

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25793

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: LCSD 880-25793/3-A

Matrix: Solid

Analysis Batch: 25772

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25793

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1105		mg/Kg		111	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	823.0		mg/Kg		82	70 - 130	5	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 880-14856-A-1-F MS

Matrix: Solid

Analysis Batch: 25772

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25793

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	98.5	F1	1000	1616	F1	mg/Kg		152	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1204		mg/Kg		120	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: 880-14856-A-1-G MSD

Matrix: Solid

Analysis Batch: 25772

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25793

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	98.5	F1	999	1379		mg/Kg		128	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1072		mg/Kg		107	70 - 130	12	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	94		70 - 130

Eurofins Midland

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14908-1
SDG: Lea Co. NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-25818/1-A

Matrix: Solid

Analysis Batch: 25929

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/20/22 11:53	1

Lab Sample ID: LCS 880-25818/2-A

Matrix: Solid

Analysis Batch: 25929

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	263.7		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-25818/3-A

Matrix: Solid

Analysis Batch: 25929

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	262.7		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-14909-A-2-B MS

Matrix: Solid

Analysis Batch: 25929

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2500		1250	3778		mg/Kg		102	90 - 110

Lab Sample ID: 880-14909-A-2-C MSD

Matrix: Solid

Analysis Batch: 25929

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2500		1250	3777		mg/Kg		102	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14908-1
SDG: Lea Co. NM

GC VOA

Analysis Batch: 25870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14908-1	H1	Total/NA	Solid	8021B	25894
880-14908-2	H3	Total/NA	Solid	8021B	25894
880-14908-3	H4	Total/NA	Solid	8021B	25894
MB 880-25894/5-A	Method Blank	Total/NA	Solid	8021B	25894
LCS 880-25894/1-A	Lab Control Sample	Total/NA	Solid	8021B	25894
LCSD 880-25894/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25894
880-14906-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	25894
880-14906-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	25894

Prep Batch: 25894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14908-1	H1	Total/NA	Solid	5035	
880-14908-2	H3	Total/NA	Solid	5035	
880-14908-3	H4	Total/NA	Solid	5035	
MB 880-25894/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25894/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25894/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14906-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-14906-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 25978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14908-1	H1	Total/NA	Solid	Total BTEX	
880-14908-2	H3	Total/NA	Solid	Total BTEX	
880-14908-3	H4	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 25772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14908-1	H1	Total/NA	Solid	8015B NM	25793
880-14908-2	H3	Total/NA	Solid	8015B NM	25793
880-14908-3	H4	Total/NA	Solid	8015B NM	25793
MB 880-25793/1-A	Method Blank	Total/NA	Solid	8015B NM	25793
LCS 880-25793/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	25793
LCSD 880-25793/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	25793
880-14856-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	25793
880-14856-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	25793

Prep Batch: 25793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14908-1	H1	Total/NA	Solid	8015NM Prep	
880-14908-2	H3	Total/NA	Solid	8015NM Prep	
880-14908-3	H4	Total/NA	Solid	8015NM Prep	
MB 880-25793/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-25793/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-25793/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-14856-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-14856-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14908-1
SDG: Lea Co. NM

GC Semi VOA

Analysis Batch: 25856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14908-1	H1	Total/NA	Solid	8015 NM	
880-14908-2	H3	Total/NA	Solid	8015 NM	
880-14908-3	H4	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 25818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14908-1	H1	Soluble	Solid	DI Leach	
880-14908-2	H3	Soluble	Solid	DI Leach	
880-14908-3	H4	Soluble	Solid	DI Leach	
MB 880-25818/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-25818/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-25818/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-14909-A-2-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-14909-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 25929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14908-1	H1	Soluble	Solid	300.0	25818
880-14908-2	H3	Soluble	Solid	300.0	25818
880-14908-3	H4	Soluble	Solid	300.0	25818
MB 880-25818/1-A	Method Blank	Soluble	Solid	300.0	25818
LCS 880-25818/2-A	Lab Control Sample	Soluble	Solid	300.0	25818
LCSD 880-25818/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	25818
880-14909-A-2-B MS	Matrix Spike	Soluble	Solid	300.0	25818
880-14909-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	25818

Lab Chronicle

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14908-1
SDG: Lea Co. NM

Client Sample ID: H1

Lab Sample ID: 880-14908-1

Date Collected: 05/17/22 11:55

Matrix: Solid

Date Received: 05/17/22 16:12

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	25894	05/19/22 11:46	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25870	05/19/22 14:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25978	05/20/22 12:04	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25856	05/19/22 08:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	25793	05/18/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25772	05/18/22 18:53	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	25818	05/18/22 14:06	CH	XEN MID
Soluble	Analysis	300.0		1			25929	05/20/22 13:30	CH	XEN MID

Client Sample ID: H3

Lab Sample ID: 880-14908-2

Date Collected: 05/17/22 11:45

Matrix: Solid

Date Received: 05/17/22 16:12

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	25894	05/19/22 11:46	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25870	05/19/22 14:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25978	05/20/22 12:04	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25856	05/19/22 08:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	25793	05/18/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25772	05/18/22 19:13	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	25818	05/18/22 14:06	CH	XEN MID
Soluble	Analysis	300.0		1			25929	05/20/22 13:37	CH	XEN MID

Client Sample ID: H4

Lab Sample ID: 880-14908-3

Date Collected: 05/17/22 11:35

Matrix: Solid

Date Received: 05/17/22 16:12

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	25894	05/19/22 11:46	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25870	05/19/22 20:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25978	05/20/22 12:04	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25856	05/19/22 08:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25793	05/18/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25772	05/18/22 19:34	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	25818	05/18/22 14:06	CH	XEN MID
Soluble	Analysis	300.0		1			25929	05/20/22 13:45	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Accreditation/Certification Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14908-1
SDG: Lea Co. NM

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	T104704400-21-22	06-30-22

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

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

Method Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14908-1
SDG: Lea Co. NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Sample Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14908-1
SDG: Lea Co. NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-14908-1	H1	Solid	05/17/22 11:55	05/17/22 16:12	0-6"
880-14908-2	H3	Solid	05/17/22 11:45	05/17/22 16:12	0-6"
880-14908-3	H4	Solid	05/17/22 11:35	05/17/22 16:12	0-6"

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- 12
- 13
- 14



Environmental Testing
Xc, Inc

Houston TX (281) 240-4200 Dallas TX (214) 902-0300
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El Paso TX (915) 565-3443 Lubbock TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 888-3199

Chain of Custody

Work Order No: 14908

www.xenco.com Page 1 of 1

Project Manager	Grant Huckabay	Bill to (if different)	
Company Name	Fasken Oil and Ranch	Company Name	
Address	6101 Holiday Hill Road	Address	
City State Zip	Midland TX 79707	City State Zip	
Phone	432-687-1777	Email	granth@foi.com / addisong@foi.com

Work Order Comments	
Program	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project	
Reporting Level	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables	EDD ☐ ADAPT ☐ Other

Project Name	DEPTN SUB SYSTEM	Turn Around	☒ Routine ☐ Rush	Pres. Code		ANALYSIS REQUEST										Preservative Codes									
Project Number																None NO DI Water H ₂ O Cool Cool MeOH Me HCL HC HNO ₃ HN H ₂ SO ₄ H ₂ NaOH Na H ₃ PO ₄ HP NaHSO ₄ NABIS Na ₂ S ₂ O ₃ NaSO ₃ Zn Acetate+NaOH Zn NaOH+Ascorbic Acid SAPC									
Project Location	LEA Co. NM	Due Date	5/23/22	TAT starts the day received by the lab. If received by 4:30pm																					
Sampler's Name	Addison Guelker																								
PO #																									
SAMPLE RECEIPT	Temp Blank	Yes	☒	Wet Ice	☒	No																			
Samples Received Intact	Yes	☒	No	Thermometer ID	TPB																				
Cooler Custody Seals	Yes	☒	No	Correction Factor	-2																				
Sample Custody Seals	Yes	☒	No	Temperature Reading	5.8																				
Total Containers	Yes	☒	No	Corrected Temperature	5.6																				

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	EC	TPH 8015M	BTEX 8021B																		
H1	S	5/17/22	11:55	D-6"	G	1	X	X	X																		
H3	S	5/17/22	11:45	D-6"	G	1	X	X	X																		
H4	S	5/17/22	11:35	D-6"	G	1	X	X	X																		
	S																										
	S																										
	S																										
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	S																										
	S																										



880-14908 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	SiO ₂	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 / 2451 / 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
1 Adilov	2 [Signature]	5/17/22	3 [Signature]	4 [Signature]	1602
5			6		

Login Sample Receipt Checklist

Client: Fasken Oil and Ranch

Job Number: 880-14908-1

SDG Number: Lea Co. NM

Login Number: 14908

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	



Environment Testing
America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-14907-1

Laboratory Sample Delivery Group: Lea Co. NM
Client Project/Site: Denton SWD System

For:

Fasken Oil and Ranch
6101 Holiday Hill Road
Midland, Texas 79707

Attn: Grant Huckabay

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

5/20/2022 3:57:43 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

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results through



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Laboratory Job ID: 880-14907-1
SDG: Lea Co. NM

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Definitions/Glossary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14907-1
SDG: Lea Co. NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14907-1
SDG: Lea Co. NM

Job ID: 880-14907-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-14907-1****Receipt**

The sample was received on 5/17/2022 4:12 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-25894 and analytical batch 880-25870 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-25894 and analytical batch 880-25870 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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.

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14907-1
SDG: Lea Co. NM

Client Sample ID: H2

Lab Sample ID: 880-14907-1

Date Collected: 05/17/22 12:10

Matrix: Solid

Date Received: 05/17/22 16:12

Sample Depth: 0-6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/19/22 11:46	05/19/22 14:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/19/22 11:46	05/19/22 14:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/19/22 11:46	05/19/22 14:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/19/22 11:46	05/19/22 14:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/19/22 11:46	05/19/22 14:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/19/22 11:46	05/19/22 14:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	05/19/22 11:46	05/19/22 14:09	1
1,4-Difluorobenzene (Surr)	100		70 - 130	05/19/22 11:46	05/19/22 14:09	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/20/22 12:04	1

Method: 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		mg/Kg			05/19/22 08:51	1

Method: 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		mg/Kg		05/18/22 15:06	05/19/22 03:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/18/22 15:06	05/19/22 03:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/18/22 15:06	05/19/22 03:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	05/18/22 15:06	05/19/22 03:04	1
o-Terphenyl	100		70 - 130	05/18/22 15:06	05/19/22 03:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	387		5.00		mg/Kg			05/20/22 13:22	1

Eurofins Midland

Surrogate Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14907-1
SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-14906-A-1-D MS	Matrix Spike	99	102
880-14906-A-1-E MSD	Matrix Spike Duplicate	106	102
880-14907-1	H2	108	100
LCS 880-25894/1-A	Lab Control Sample	98	99
LCSD 880-25894/2-A	Lab Control Sample Dup	104	99
MB 880-25894/5-A	Method Blank	97	97
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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-14907-1	H2	103	100
890-2316-A-1-G MS	Matrix Spike	104	98
890-2316-A-1-H MSD	Matrix Spike Duplicate	103	94
LCS 880-25829/2-A	Lab Control Sample	105	102
LCSD 880-25829/3-A	Lab Control Sample Dup	102	98
MB 880-25829/1-A	Method Blank	111	118
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14907-1
SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25894/5-A

Matrix: Solid

Analysis Batch: 25870

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25894

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/19/22 11:46	05/19/22 13:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/19/22 11:46	05/19/22 13:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/19/22 11:46	05/19/22 13:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/19/22 11:46	05/19/22 13:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/19/22 11:46	05/19/22 13:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/19/22 11:46	05/19/22 13:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	05/19/22 11:46	05/19/22 13:19	1
1,4-Difluorobenzene (Surr)	97		70 - 130	05/19/22 11:46	05/19/22 13:19	1

Lab Sample ID: LCS 880-25894/1-A

Matrix: Solid

Analysis Batch: 25870

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25894

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09254		mg/Kg		93	70 - 130
Toluene	0.100	0.1005		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.1162		mg/Kg		116	70 - 130
m-Xylene & p-Xylene	0.200	0.2082		mg/Kg		104	70 - 130
o-Xylene	0.100	0.09838		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-25894/2-A

Matrix: Solid

Analysis Batch: 25870

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25894

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07898		mg/Kg		79	70 - 130	16	35
Toluene	0.100	0.08022		mg/Kg		80	70 - 130	22	35
Ethylbenzene	0.100	0.09297		mg/Kg		93	70 - 130	22	35
m-Xylene & p-Xylene	0.200	0.1698		mg/Kg		85	70 - 130	20	35
o-Xylene	0.100	0.08165		mg/Kg		82	70 - 130	19	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-14906-A-1-D MS

Matrix: Solid

Analysis Batch: 25870

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25894

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1	0.0992	0.07972		mg/Kg		80	70 - 130
Toluene	<0.00200	U F2 F1	0.0992	0.07222		mg/Kg		72	70 - 130

Eurofins Midland

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14907-1
SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-14906-A-1-D MS

Matrix: Solid

Analysis Batch: 25870

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25894

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F2 F1	0.0992	0.07570		mg/Kg		76	70 - 130
m-Xylene & p-Xylene	<0.00401	U F2 F1	0.198	0.1350	F1	mg/Kg		68	70 - 130
o-Xylene	<0.00200	U F2 F1	0.0992	0.06454	F1	mg/Kg		65	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-14906-A-1-E MSD

Matrix: Solid

Analysis Batch: 25870

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25894

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0994	0.05816	F1	mg/Kg		59	70 - 130	31	35
Toluene	<0.00200	U F2 F1	0.0994	0.02184	F2 F1	mg/Kg		21	70 - 130	107	35
Ethylbenzene	<0.00200	U F2 F1	0.0994	0.04289	F2 F1	mg/Kg		43	70 - 130	55	35
m-Xylene & p-Xylene	<0.00401	U F2 F1	0.199	0.07658	F2 F1	mg/Kg		39	70 - 130	55	35
o-Xylene	<0.00200	U F2 F1	0.0994	0.03794	F2 F1	mg/Kg		38	70 - 130	52	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-25829/1-A

Matrix: Solid

Analysis Batch: 25770

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25829

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/18/22 15:06	05/18/22 21:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/18/22 15:06	05/18/22 21:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/18/22 15:06	05/18/22 21:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	05/18/22 15:06	05/18/22 21:27	1
o-Terphenyl	118		70 - 130	05/18/22 15:06	05/18/22 21:27	1

Lab Sample ID: LCS 880-25829/2-A

Matrix: Solid

Analysis Batch: 25770

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	857.6		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	998.7		mg/Kg		100	70 - 130

Eurofins Midland

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14907-1
SDG: Lea Co. NM

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

Lab Sample ID: LCS 880-25829/2-A
Matrix: Solid
Analysis Batch: 25770

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 25829

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: LCSD 880-25829/3-A
Matrix: Solid
Analysis Batch: 25770

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 25829

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	845.8		mg/Kg		85	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	959.5		mg/Kg		96	70 - 130	4	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: 890-2316-A-1-G MS
Matrix: Solid
Analysis Batch: 25770

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 25829

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1156		mg/Kg		113	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1	1000	1405	F1	mg/Kg		141	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: 890-2316-A-1-H MSD
Matrix: Solid
Analysis Batch: 25770

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 25829

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1218		mg/Kg		119	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	999	1377	F1	mg/Kg		138	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	94		70 - 130

Eurofins Midland

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14907-1
SDG: Lea Co. NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-25818/1-A

Matrix: Solid

Analysis Batch: 25929

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/20/22 11:53	1

Lab Sample ID: LCS 880-25818/2-A

Matrix: Solid

Analysis Batch: 25929

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	263.7		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-25818/3-A

Matrix: Solid

Analysis Batch: 25929

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	262.7		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-14909-A-2-B MS

Matrix: Solid

Analysis Batch: 25929

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2500		1250	3778		mg/Kg		102	90 - 110

Lab Sample ID: 880-14909-A-2-C MSD

Matrix: Solid

Analysis Batch: 25929

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2500		1250	3777		mg/Kg		102	90 - 110	0	20

QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14907-1
SDG: Lea Co. NM

GC VOA

Analysis Batch: 25870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14907-1	H2	Total/NA	Solid	8021B	25894
MB 880-25894/5-A	Method Blank	Total/NA	Solid	8021B	25894
LCS 880-25894/1-A	Lab Control Sample	Total/NA	Solid	8021B	25894
LCSD 880-25894/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25894
880-14906-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	25894
880-14906-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	25894

Prep Batch: 25894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14907-1	H2	Total/NA	Solid	5035	
MB 880-25894/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25894/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25894/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14906-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-14906-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 25977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14907-1	H2	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 25770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14907-1	H2	Total/NA	Solid	8015B NM	25829
MB 880-25829/1-A	Method Blank	Total/NA	Solid	8015B NM	25829
LCS 880-25829/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	25829
LCSD 880-25829/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	25829
890-2316-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	25829
890-2316-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	25829

Prep Batch: 25829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14907-1	H2	Total/NA	Solid	8015NM Prep	
MB 880-25829/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-25829/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-25829/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2316-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2316-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 25863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14907-1	H2	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 25818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14907-1	H2	Soluble	Solid	DI Leach	
MB 880-25818/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-25818/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-25818/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14907-1
SDG: Lea Co. NM

HPLC/IC (Continued)

Leach Batch: 25818 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14909-A-2-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-14909-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 25929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14907-1	H2	Soluble	Solid	300.0	25818
MB 880-25818/1-A	Method Blank	Soluble	Solid	300.0	25818
LCS 880-25818/2-A	Lab Control Sample	Soluble	Solid	300.0	25818
LCSD 880-25818/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	25818
880-14909-A-2-B MS	Matrix Spike	Soluble	Solid	300.0	25818
880-14909-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	25818

Lab Chronicle

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14907-1
SDG: Lea Co. NM

Client Sample ID: H2
Date Collected: 05/17/22 12:10
Date Received: 05/17/22 16:12

Lab Sample ID: 880-14907-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	25894	05/19/22 11:46	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25870	05/19/22 14:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25977	05/20/22 12:04	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25863	05/19/22 08:51	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	25829	05/18/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25770	05/19/22 03:04	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	25818	05/18/22 14:06	CH	XEN MID
Soluble	Analysis	300.0		1			25929	05/20/22 13:22	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14907-1
SDG: Lea Co. NM

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	T104704400-21-22	06-30-22

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

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

Method Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14907-1
SDG: Lea Co. NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Sample Summary

Client: Fasken Oil and Ranch
Project/Site: Denton SWD System

Job ID: 880-14907-1
SDG: Lea Co. NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-14907-1	H2	Solid	05/17/22 12:10	05/17/22 16:12	0-6"

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



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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

Chain of Custody

Work Order No: 14967

www.xenco.com Page 1 of 1

Project Manager	Grant Huckabay	Bill to (if different)	
Company Name	Fasken Oil and Ranch	Company Name	
Address	6101 Holiday Hill Road	Address	
City, State ZIP	Midland TX 79707	City State ZIP	
Phone	432-687-1777	Email	granth@forl.com / addisong@forl.com

Work Order Comments	
Program	UST/PST ☐ RRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project	
Reporting Level II	☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables	EDD ☐ ADAPT ☐ Other

Project Name				Turn Around				Pres. Code				ANALYSIS REQUEST												Preservative Codes			
Project Number				☒ Routine ☐ Rush				Project Name																None NO			
Project Location				Lea Co. NM				Due Date				5/23/22												Cool Cool			
Sampler's Name				Addison Guekter				TAT starts the day received by the lab if received by 4 30pm																MeOH Me			
PO #																								HCL HC			
SAMPLE RECEIPT				Temp Blank		Yes ☒ No ☐		Thermometer ID		Yes ☐ No ☒														H ₂ SO ₄ H ₂			
				Samples Received Intact:		Yes ☒ No ☐		Correction Factor		Yes ☒ No ☐														H ₃ PO ₄ HP			
				Cooler Custody Seals		Yes ☒ No ☐		Temperature Reading		Yes ☒ No ☐														NaHSO ₄ NABIS			
				Sample Custody Seals.		Yes ☒ No ☐		Corrected Temperature		Yes ☒ No ☐														Na ₂ S ₂ O ₃ NaSO ₃			
				Total Containers		Yes ☒ No ☐																		Zn Acetate+NaOH Zn			
																								NaOH+Ascorbic Acid SAPC			

[illegible]

880-14907 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 SiO ₂ Na Sr Ti Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed				TC1P / 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 \$3 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		
1 <i>Alison</i>	<i>[Signature]</i>	8/7/22					
3		10/24					
5							

Login Sample Receipt Checklist

Client: Fasken Oil and Ranch

Job Number: 880-14907-1

SDG Number: Lea Co. NM

Login Number: 14907

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	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 120862

CONDITIONS

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 120862
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Please implement 19.15.29.13 NMAC when completing P&A.	7/8/2022