

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	NCS1929455199
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Enduring Resources	OGRID: 372286
Contact Name: Chad Snell	Contact Telephone: 505-444-0586
Contact email: csnell@enduringresources.com	Incident # (assigned by OCD) NCS1929455199
Contact mailing address: 200 Energy Court	Farmington, New Mexico 87401

Location of Release Source

Latitude 36.205957 Longitude -107.739904
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: WLU 2309 24N	Site Type: Recycling Facility
Date Release Discovered: 9/14/2019	API# (if applicable) 3RF-29

Unit Letter	Section	Township	Range	County
	24	23N	9W	Sandoval

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): 23 bbls	Volume Recovered (bbls): 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

On 9/14/2019, a produced water leak was discovered on the WLU 2309 24N Recycling Facility. A valve was found to be leaking on the piping header where waterlines enter the location. The leak was stopped and the valve repaired. Cleanup activities are completed (see attached remediation narrative). The volume was calculated using a spill calculation tool, and the volume was estimated to be 23 bbls based on the information entered into the calculation tool.

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> 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: _____ Title: _____ Signature: _____ Date: _____ email: _____ Telephone: _____
<u>OCD Only</u> Received by: _____ Date: _____

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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?	>182 ___ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Form C-141

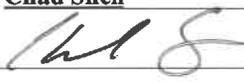
State of New Mexico
Oil Conservation Division

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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: Chad Snell Title: HSE Tech

Signature:  Date: 12-5-2019

email: csnell@enduringresources.com Telephone: (505)444-0586

OCD Only

Received by: _____ Date: _____

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Remediation Plan

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

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

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

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: _____ Title: _____
 Signature: _____ Date: _____
 email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

- Approved
 Approved with Attached Conditions of Approval
 Denied
 Deferral Approved

Signature: _____ Date: _____

Incident ID	
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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: Chad Snell Title: HSE Tech

Signature:  Date: 12-5-19

email: csmell@enduringresources.com Telephone: (505)444-0586

OCD Only

Received by: ocd Date: 12/6/19

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: 2/20/2020

Printed Name: Cory Title: Environmental Specialist

WLU 2309 24N Remediation Narrative

9/14/2019

A produced water leak was discovered on the WLU 2309 24N Recycling Facility. A valve was found to be leaking on the piping header where waterlines entered the location. The leak was stopped and the valve was repaired. The volume was calculated using a spill calculation tool, and the volume was estimated to be 23 bbls based on the information entered into the calculation tool.

10/7/2019

Clean-up activities began once water transfer equipment was moved out of impacted areas. A backhoe was used to scrap impacted soil. 6 inches of surface was removed from the area removing approximately 90 cubic yards of impacted soil.

10/15/2019

Email notification was sent to the NMOCD and the BLM notifying them that closure samples would take place on Thursday October 17th 2019 at 9:30am (see attached "Email Notification").

10/17/2019

Sampling activities took place with Thomas Vermersch of the NMOCD and Abiodun Emmanuel Adeloye of the BLM onsite to witness. A total of 17 samples were taken with each sample not exceeding the 200 square foot rule. All samples were sent in for analysis of BTEX, TPH (GRO/DRO/ORO) and Chlorides.

10/18/2018

Analytical report was received with two sections being slightly over the most stringent standard (GRO/DRO/ORO: 100mg/kg, BTEX: 50mg/kg, Benzene: 10mg/kg and Chlorides 600mg/kg), needing further excavation. These sections were Section "5 and 7". All other samples returned below most stringent standards in Table 1 and need no further actions. (See attached "Sample Results Table").

10/22/2019

Email notification was sent to the BLM and the NMOCD stating that closure sampling on sections "5, 6 and 7" would take place on Thursday October 24th 2019 starting immediately after sampling activities at the Rodeo 508H (see attached "Email Notification"). Section 6 was resampled thinking section was above regulatory standards but after all was below most stringent standards.

10/23/2019

Further excavation continued on Sections "5, 6 and 7" scraping an additional 6 inches of impacted soil in those sections. An additional 50 cubic yards of soil was removed, completing clean-up activities at this time.

10/24/2019

Sampling activities took place with Abiodun Emmanuel Adeloje of the BLM on site to witness. Samples were taken from "Sections 5, 6, and 7". Sections were approximately 1 foot in depth from original surface.

10/25/2019

Analytical report was received and returned results were all under most stringent standards listed in Table 1. No further action is required.



Enduring Resources, LLC
Spill Closure Report
WLU 2309 24N Release



Photo 1: Aerial View



Enduring Resources, LLC
Spill Closure Report
WLU 2309 24N Release

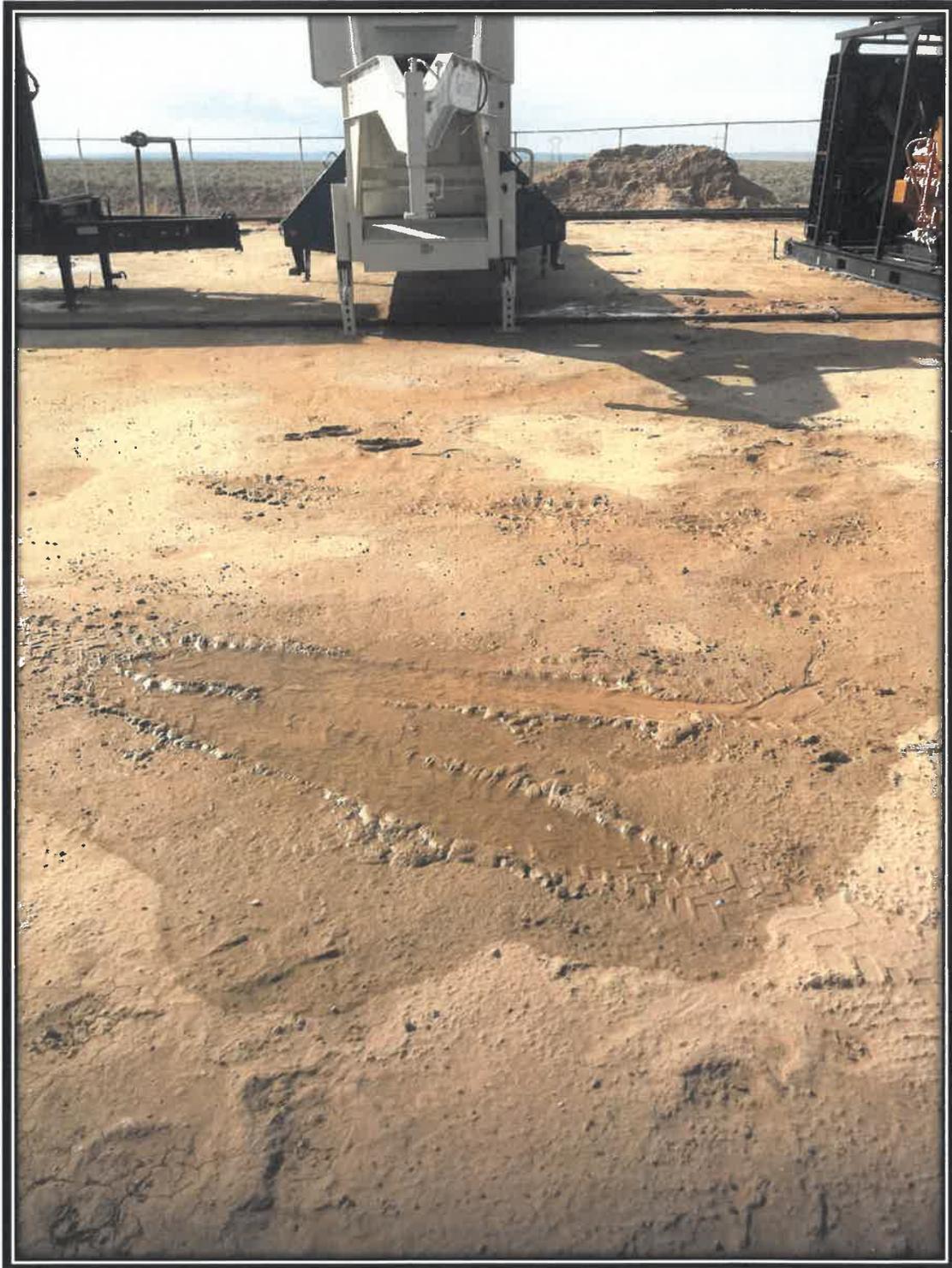


Photo 2: Spill Area (View 1)



Enduring Resources, LLC
Spill Closure Report
WLU 2309 24N Release

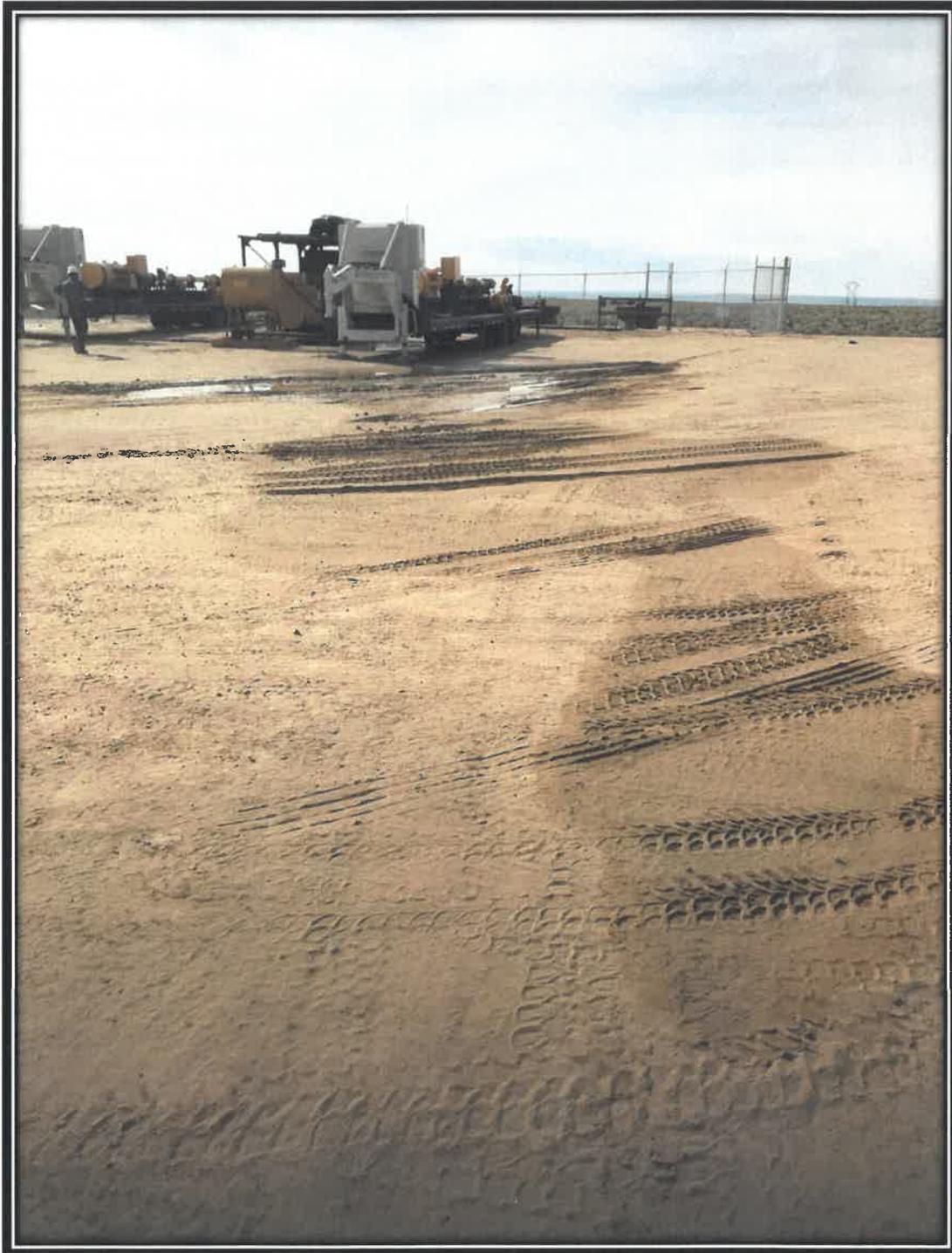


Photo 3: Spill Area (View 2)



Enduring Resources, LLC
Spill Closure Report
WLU 2309 24N Release

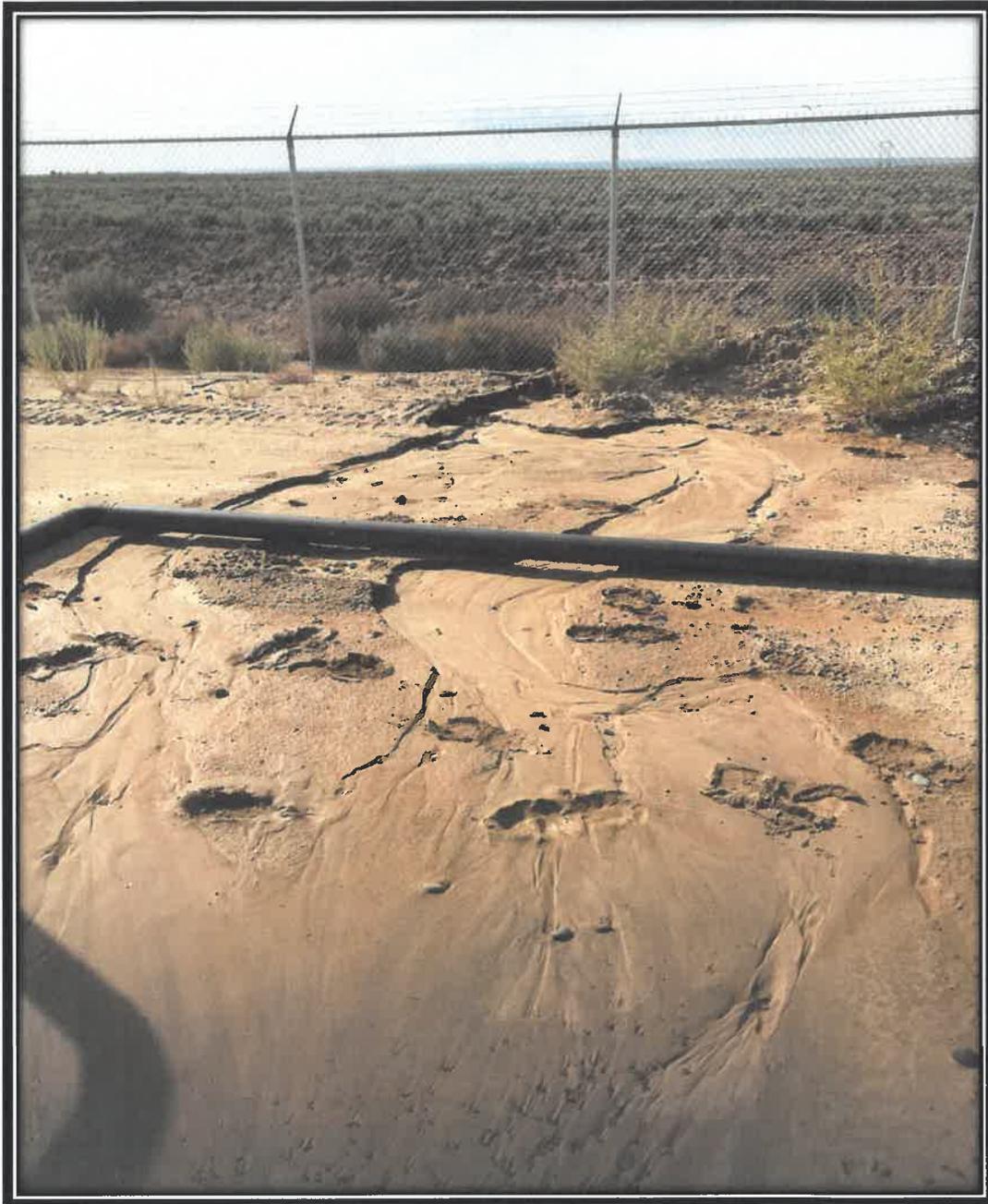


Photo 4: Spill Area (View 3)



Enduring Resources, LLC
Spill Closure Report
WLU 2309 24N Release



Photo 5: Spill Area (View 4)



Enduring Resources, LLC
Spill Closure Report
WLU 2309 24N Release

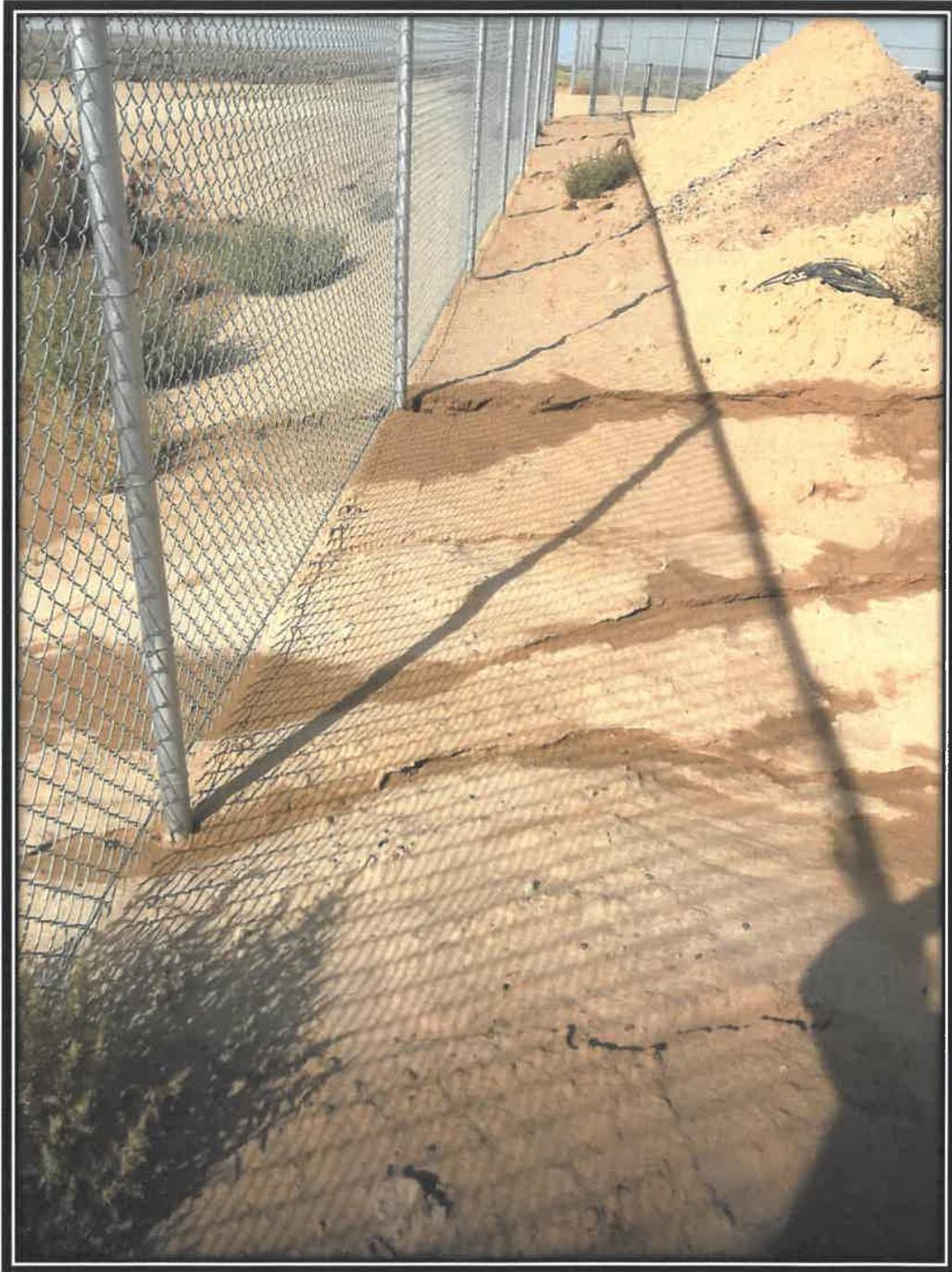


Photo 6: Spill Area (View 5)



Enduring Resources, LLC
Spill Closure Report
WLU 2309 24N Release

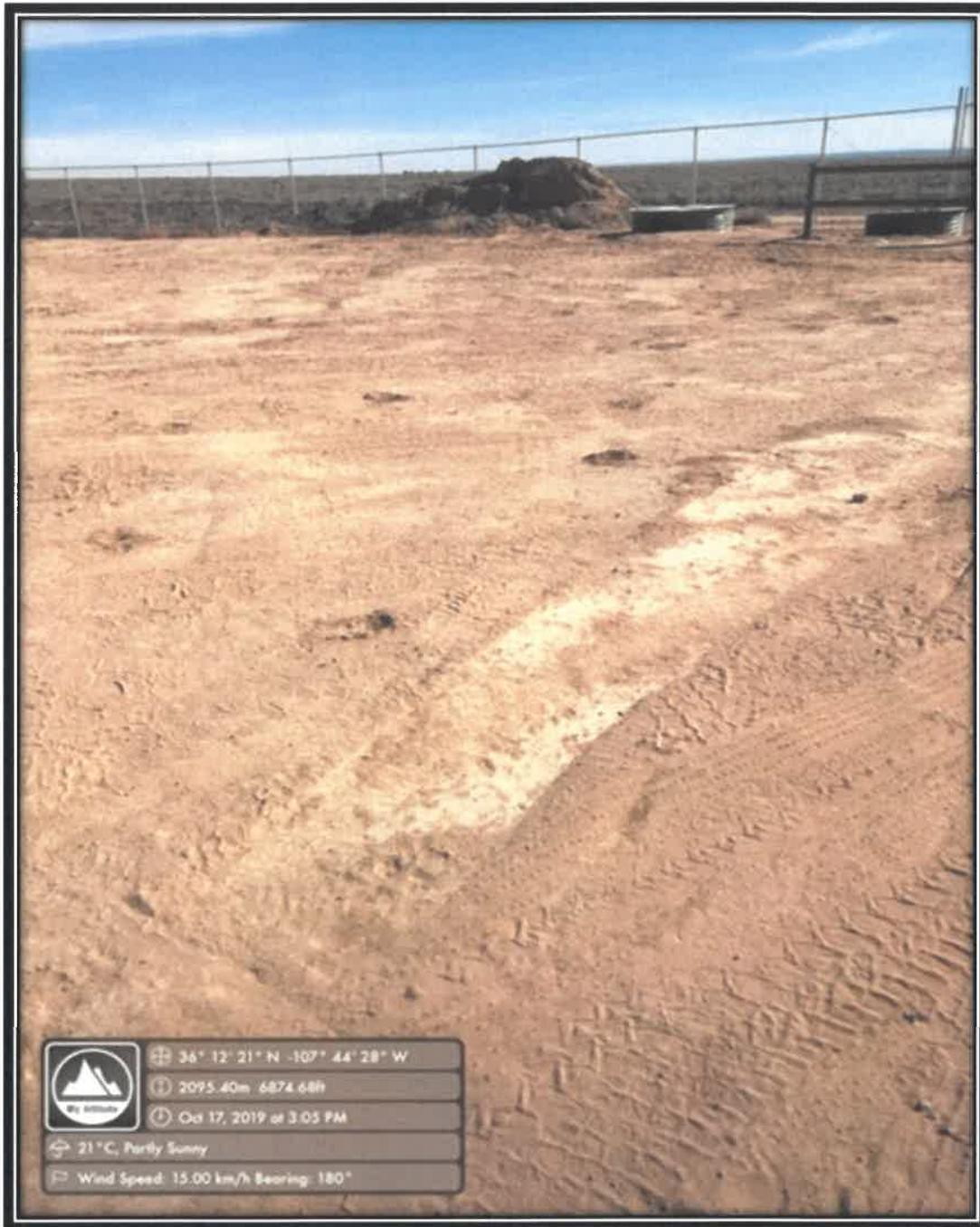


Photo 7: After Clean-up: Sampling Event 1



Enduring Resources, LLC
Spill Closure Report
WLU 2309 24N Release



Photo 8: After Clean-up: Sampling Event 1



Enduring Resources, LLC
Spill Closure Report
WLU 2309 24N Release

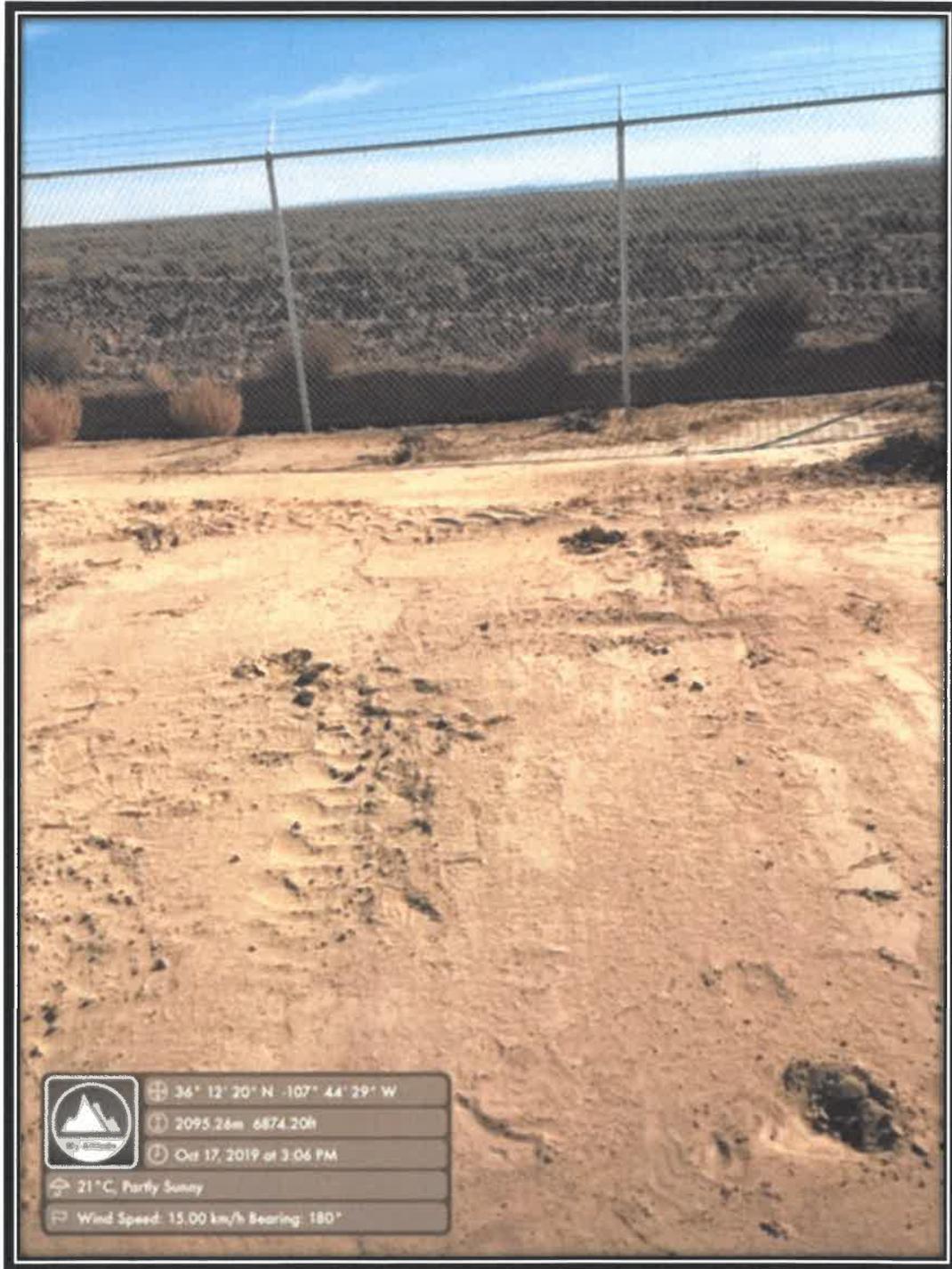


Photo 9: After Clean-up: Sampling Event 1



Enduring Resources, LLC
Spill Closure Report
WLU 2309 24N Release

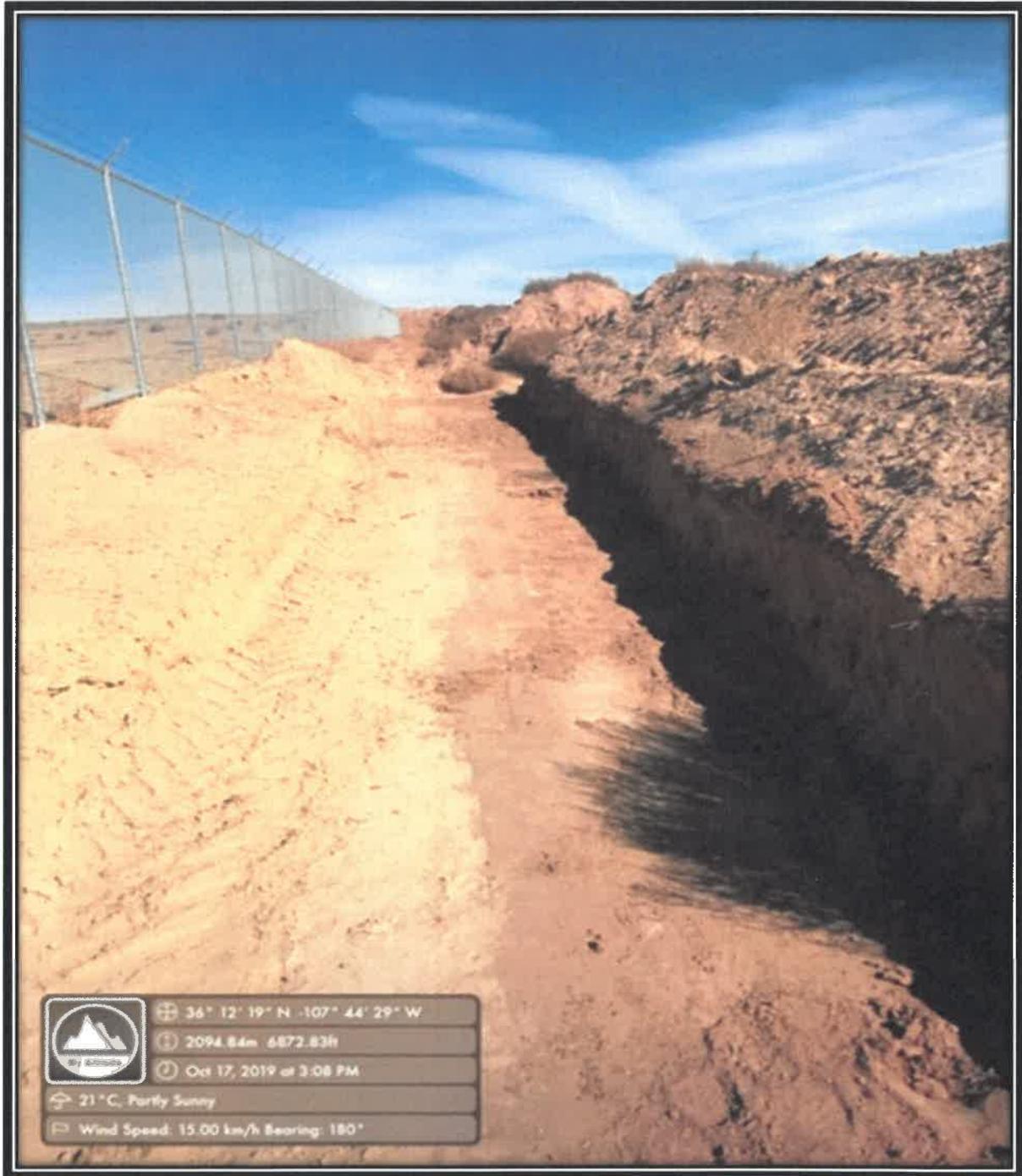


Photo 10: After Clean-up: Sampling Event 1



Enduring Resources, LLC
Spill Closure Report
WLU 2309 24N Release

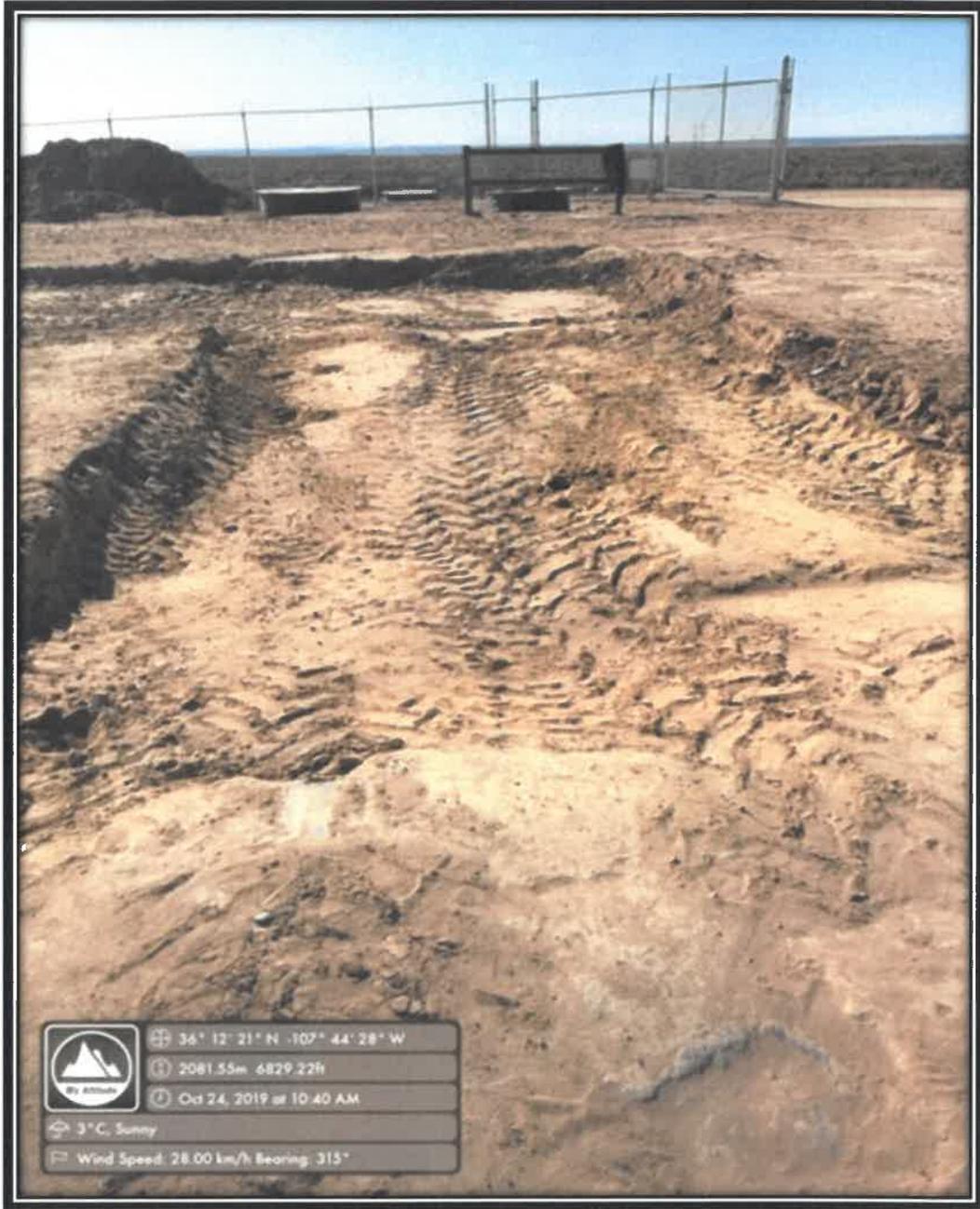


Photo 11: After Clean-up: Sampling Event 2



Enduring Resources, LLC
Spill Closure Report
WLU 2309 24N Release



Photo 11: After Clean-up: Sampling Event 2

Chad Snell

From: Chad Snell
Sent: Tuesday, October 22, 2019 7:36 AM
To: 'Smith, Cory, EMNRD'
Cc: James McDaniel; 'aadeloye@blm.gov'
Subject: RE: Closure Sampling

Good Morning,

Please accept this email as the required 48 hour notice for closure sampling activities to take place at the **WLU 2309 24N (3RF-29, Sec: 24, TWN: 23N, RGE: 9W) Rodeo 508H (30-04535869, Sec: 25, TWN: 23N, RGE: 9W)**. As there were a few sections that had slightly elevated results and will be resampled after further excavation that will be completed today. Sampling activities will take place Thursday October 24th 2019 at 9:30am starting at the Rodeo 508H than the WLU 2309 24N once completed at the Rodeo 508H. If you have any questions contact James or myself in regards to this matter.

Thanks.

From: Chad Snell
Sent: Tuesday, October 15, 2019 8:34 AM
To: 'Smith, Cory, EMNRD' <Cory.Smith@state.nm.us>
Cc: James McDaniel <JMcDaniel@enduringresources.com>; 'aadeloye@blm.gov' <aadeloye@blm.gov>
Subject: Closure Sampling

Cory,

Please accept this email as the required 48 hour notice for closure sampling activities to take place at the following locations,

WLU 2309 24N (3RF-29, Sec: 24, TWN: 23N, RGE: 9W)
Rodeo 508H (30-04535869, Sec: 25, TWN: 23N, RGE: 9W)

All clean-up activities have been completed and closure sampling will take place on October 17th at 9:30am. We will start at the WLU 2309 24N than the Rodeo 508H as soon as sample activities are done at the WLU 2309 24N. Both releases at the Rodeo 508H will be sampled at this time. If you have any questions contact James or myself in regards to this matter.

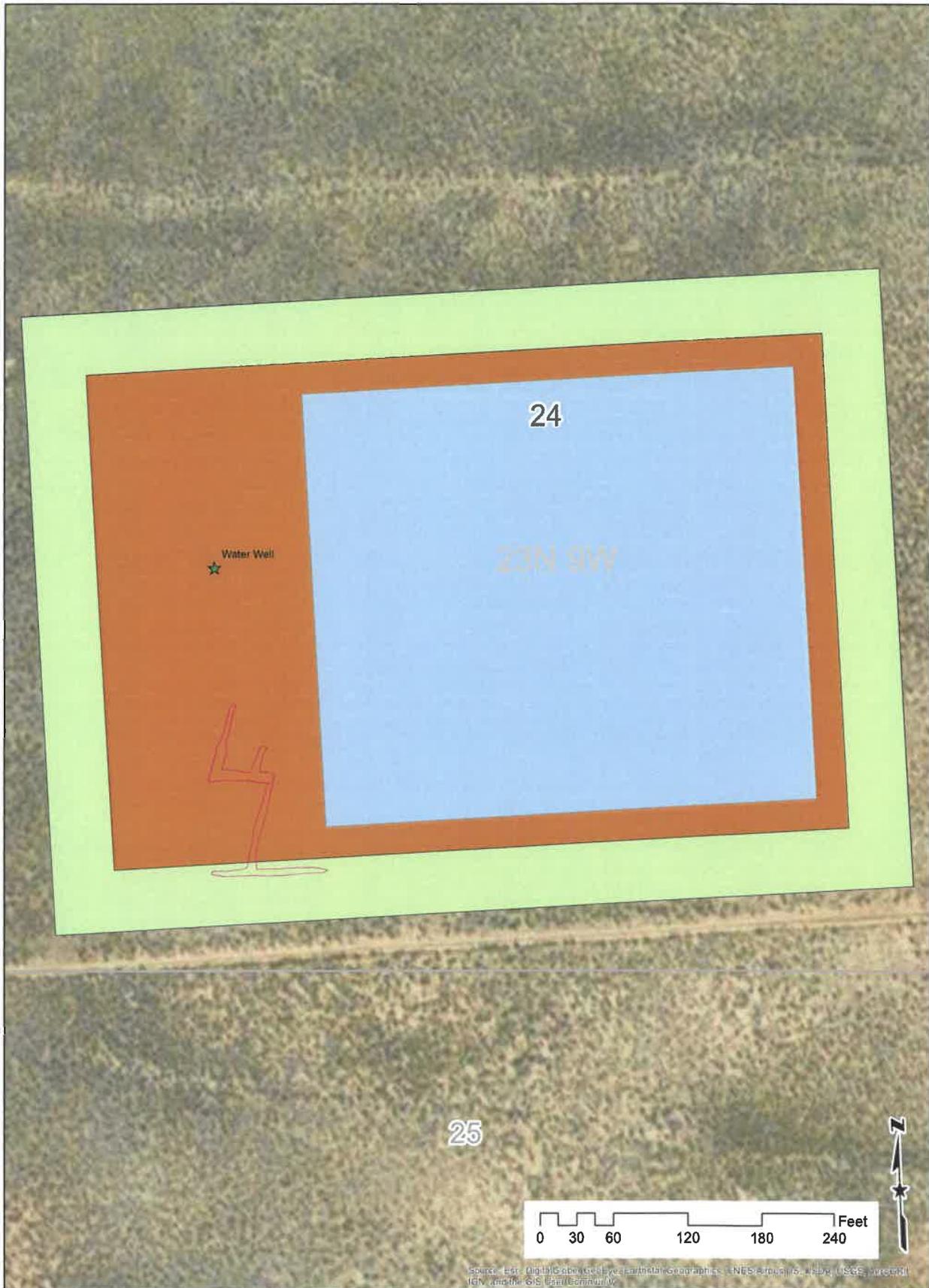
Thanks

Chad Snell
HSE Tech
Enduring Resources
(505) 444-0586.

WLU 2309 24N

Sample Name	Description	Date	Time	DRO	GRO	DRO+	ORO	Total TPH	Benzene	Toluene	Ethylbenzene	Xylenes		Total BTEX	Chlorides	Square Footage
												ppm	NA			
STANDARD	Top 4 Feet	NA	NA	NA	NA	100	NA	100	10	NA	NA	NA	NA	50	600	200 sq. ft
Section 1	Composite	10/17/2019	9:40 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	ND	37.3	200
Section 2	Composite	10/17/2019	9:45 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	ND	35.6	200
Section 3	Composite	10/17/2019	9:50 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	ND	136	195
Section 4	Composite	10/17/2019	9:55 AM	29.6	<20	29.6	<50	29.6	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	ND	270	195
Section 5	Composite	10/17/2019	10:00 AM	47.3	<20	47.3	56.4	103.7	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	ND	311	195
Section 6	Composite	10/17/2019	10:05 AM	34	<20	34	<50	34	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	ND	133	200
Section 7	Composite	10/17/2019	10:10 AM	158	<20	158	242	400	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	ND	604	200
Section 8	Composite	10/17/2019	10:15 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	ND	91.8	200
Section 9	Composite	10/17/2019	10:20 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	ND	124	200
Section 10	Composite	10/17/2019	10:25 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	ND	184	200
Section 11	Composite	10/17/2019	10:30 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	ND	211	200
Section 12	Composite	10/17/2019	10:35 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	ND	82.9	180
Section 13	Composite	10/17/2019	10:40 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	ND	64.3	180
Section 14	Composite	10/17/2019	10:45 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	ND	85	180
Section 15	Composite	10/17/2019	10:50 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	ND	102	141
Section 16	Composite	10/17/2019	10:55 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	ND	82.6	141
Section 17	Composite	10/17/2019	11:00 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	ND	95.2	50
Section 5	Composite	10/24/2019	10:20 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	ND	35.6	195
Section 6	Composite	10/24/2019	10:25 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	ND	38	200
Section 7	Composite	10/24/2019	10:30 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	ND	48.1	200





WLU 24N Pad

- AOI
- Pond
- Pad
- Constr Disturb



**ENDURING
RESOURCES, LLC**

Updated: 11/12/2019

Attachment C

MO-TE DRILLING, INC.

DAY _____

DRILLER <u>JOSH WOOD</u>	LEFT TOWN _____	ARRIVED FIELD _____
HELPER <u>Brando H</u>	LEFT FIELD _____	ARRIVED TOWN _____
HELPER <u>Cassy M</u>	TOTAL FOOTAGE TODAY _____	
RIG NO. <u>207</u>	DATE <u>1-16-19</u>	CLIENT <u>Enduring</u>
BEGIN WORK ON HOLE NO. <u>RONCO UNIT #511H TH</u>	FEET _____	
BEGIN WORK ON HOLE NO. _____	AT _____	FEET _____

TIME FROM	TIME TO	ACTIVITY
7:30	9:00	Drive to location
9:00	9:45	Set up rig, Rig up, Wait on state
9:45	9:55	Drill 0-50' Trip out wait 1 hour
9:55	10:55	Standby test for water, No water
10:55	11:15	Drill 50-100' Trip out wait 1 hour
11:15	12:15	Standby test for water, No water
12:15	12:45	Fill in hole Big clay
12:45	2:00	Drive in.
6 1/4 BIT		
Section 25, T23N, R9W San Juan County		
LAT: 36.191179 LONG: 107.744800		

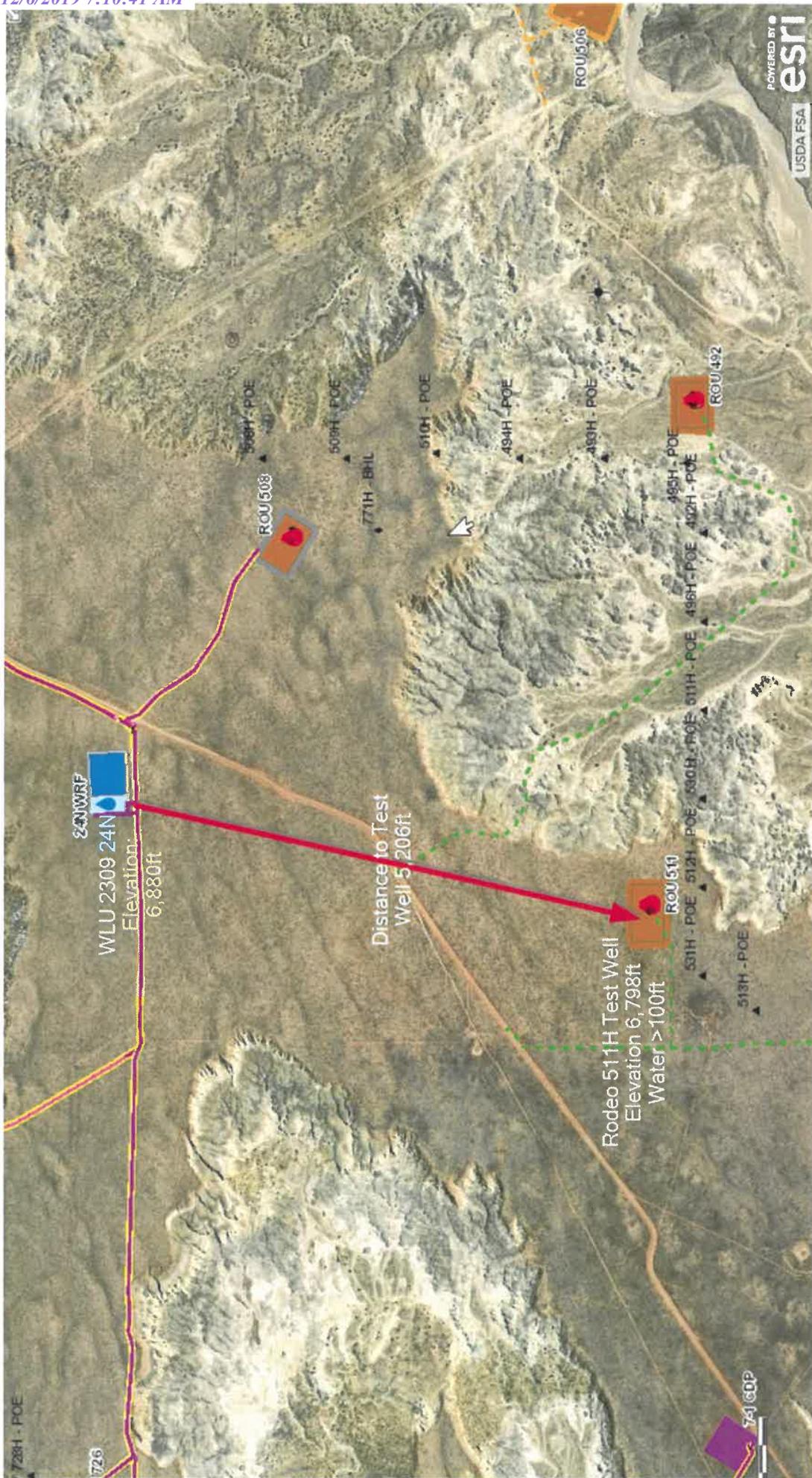
BIT RECORD		
SIZE & MARK	SERIAL NO.	FOOTAGE

CIRCULATION MATERIAL		
QUAN.	UNIT	MATERIAL

NO. OF LOADS OF WATER _____ SOURCE _____

see juan repr farm, nm Form 219-6

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NM OCD OIL AND GAS MAP New Mexico Oil Conservation Division

Layer List

- New Mexico Oil and Gas Wells
- OCD Districts and Offices
- Public Land Survey System
- Leases and Units
- Communitization Agreements and Participating Areas
- Political Boundaries and Transportation
- Mineral and Surface Ownership
- Hydrology

36.205957 -107.739904 X Q Show search results for 36.205...

Search result: 36°12'21.445"N 107°44'23.654"W

Measurement: 1,535.3 Feet

Clear

0.4km 0.2mi

All rights reserved

National Flood Hazard Layer FIRMette



36°12'35.96"N

107°44'4.93"W

USGS The National Map: Orthoimagery. Data refreshed April, 2019. 36°12'6.93"N



Legend

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

SPECIAL FLOOD HAZARD AREAS



Without Base Flood Elevation (BFE)
Zone A, V, A99
With BFE or Depth Zone AE, AH, AR, VE, AR
Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD



0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile
Future Conditions 1% Annual Chance Flood Hazard Zone X
Area with Reduced Flood Risk due to Levees. See Notes. Zone X
Area with Flood Risk due to Levee Zone L

OTHER AREAS



Area of Minimal Flood Hazard Zone X
Effective LOMRs
Area of Undetermined Flood Hazard Zone X

GENERAL STRUCTURES



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

OTHER FEATURES



Cross Sections with 1% Annual Chance Water Surface Elevation
Coastal Transect
Base Flood Elevation Line (BFE)
Limit of Study
Coastal Transect Baseline
Profile Baseline
Hydrographic Feature

MAP PANELS



Digital Data Available
No Digital Data Available
Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/21/2019 at 9:02:45 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



San Juan County
350064

T23N R00W S24

AREA OF MINIMAL FLOOD HAZARD
Zone X

35045C2425F
eff. 8/5/2010

T23N R00W S25



Analytical Report

Report Summary

Client: Enduring Resources, LLC

Samples Received: 10/17/2019

Job Number: 17065-0017

Work Order: P910087

Project Name/Location: WLU 2309 24N

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a horizontal line.

Date: 10/21/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
 Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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 Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
 Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: WLU 2309 24N
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/21/19 14:59

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Section 1	P910087-01A	Soil	10/17/19	10/17/19	Glass Jar, 4 oz.
Section 2	P910087-02A	Soil	10/17/19	10/17/19	Glass Jar, 4 oz.
Section 3	P910087-03A	Soil	10/17/19	10/17/19	Glass Jar, 4 oz.
Section 4	P910087-04A	Soil	10/17/19	10/17/19	Glass Jar, 4 oz.
Section 5	P910087-05A	Soil	10/17/19	10/17/19	Glass Jar, 4 oz.
Section 6	P910087-06A	Soil	10/17/19	10/17/19	Glass Jar, 4 oz.
Section 7	P910087-07A	Soil	10/17/19	10/17/19	Glass Jar, 4 oz.
Section 8	P910087-08A	Soil	10/17/19	10/17/19	Glass Jar, 4 oz.
Section 9	P910087-09A	Soil	10/17/19	10/17/19	Glass Jar, 4 oz.
Section 10	P910087-10A	Soil	10/17/19	10/17/19	Glass Jar, 4 oz.
Section 11	P910087-11A	Soil	10/17/19	10/17/19	Glass Jar, 4 oz.
Section 12	P910087-12A	Soil	10/17/19	10/17/19	Glass Jar, 4 oz.
Section 13	P910087-13A	Soil	10/17/19	10/17/19	Glass Jar, 4 oz.
Section 14	P910087-14A	Soil	10/17/19	10/17/19	Glass Jar, 4 oz.
Section 15	P910087-15A	Soil	10/17/19	10/17/19	Glass Jar, 4 oz.
Section 16	P910087-16A	Soil	10/17/19	10/17/19	Glass Jar, 4 oz.
Section 17	P910087-17A	Soil	10/17/19	10/17/19	Glass Jar, 4 oz.

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Section 1
P910087-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<u>Volatile Organic Compounds by 8260</u>									
Benzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		95.4 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
<u>Nonhalogenated Organics by 8015 - DRO/ORO</u>									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		103 %		50-200	1942044	10/17/19	10/18/19	EPA 8015D	
<u>Nonhalogenated Organics by 8015 - GRO</u>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		95.4 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
<u>Anions by 300.0/9056A</u>									
Chloride	37.3	20.0	mg/kg	1	1942042	10/17/19	10/17/19	EPA 300.0/9056A	

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Section 2
P910087-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		96.9 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		98.8 %		50-200	1942044	10/17/19	10/18/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		96.9 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	35.6	20.0	mg/kg	1	1942042	10/17/19	10/18/19	EPA 300.0/9056A	

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**Section 3
P910087-03 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		109 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
Surrogate: Toluene-d8		101 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
Surrogate: Bromofluorobenzene		94.6 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
Surrogate: n-Nonane		101 %		50-200	1942044	10/17/19	10/18/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		109 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
Surrogate: Toluene-d8		101 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
Surrogate: Bromofluorobenzene		94.6 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	136	20.0	mg/kg	1	1942042	10/17/19	10/18/19	EPA 300.0/9056A	

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Section 4
P910087-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		95.5 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	29.6	25.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		110 %		50-200	1942044	10/17/19	10/18/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		95.5 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	270	20.0	mg/kg	1	1942042	10/17/19	10/18/19	EPA 300.0/9056A	

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**Section 5
P910087-05 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatiles Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		92.6 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	47.3	25.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	56.4	50.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		104 %		50-200	1942044	10/17/19	10/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		92.6 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	311	20.0	mg/kg	1	1942042	10/17/19	10/18/19	EPA 300.0/9056A	
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Section 6
P910087-06 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		93.0 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	34.0	25.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		108 %		50-200	1942044	10/17/19	10/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		93.0 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	133	20.0	mg/kg	1	1942042	10/17/19	10/18/19	EPA 300.0/9056A	
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**Section 7
P910087-07 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		103 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		94.4 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	158	25.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	242	50.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		111 %		50-200	1942044	10/17/19	10/18/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942041	10/17/19	10/17/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		103 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		94.4 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	604	20.0	mg/kg	1	1942042	10/17/19	10/18/19	EPA 300.0/9056A	

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**Section 8
P910087-08 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		101 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		94.6 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		111 %		50-200	1942044	10/17/19	10/18/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		101 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		94.6 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	91.8	20.0	mg/kg	1	1942042	10/17/19	10/18/19	EPA 300.0/9056A	

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**Section 9
P910087-09 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		103 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		94.3 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		115 %		50-200	1942044	10/17/19	10/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		103 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		94.3 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	124	20.0	mg/kg	1	1942042	10/17/19	10/18/19	EPA 300.0/9056A	
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**Section 10
P910087-10 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<u>Volatiles Organic Compounds by 8260</u>									
Benzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		110 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	
Surrogate: Toluene-d8		101 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		93.8 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	
<u>Nonhalogenated Organics by 8015 - DRO/ORO</u>									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
Surrogate: n-Nonane		113 %		50-200	1942044	10/17/19	10/18/19	EPA 8015D	
<u>Nonhalogenated Organics by 8015 - GRO</u>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		110 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	
Surrogate: Toluene-d8		101 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		93.8 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	
<u>Anions by 300.0/9056A</u>									
Chloride	184	20.0	mg/kg	1	1942042	10/17/19	10/18/19	EPA 300.0/9056A	

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Section 11
P910087-11 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		107 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	
Surrogate: Toluene-d8		103 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		94.4 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
Surrogate: n-Nonane		112 %		50-200	1942044	10/17/19	10/18/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		107 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	
Surrogate: Toluene-d8		103 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		94.4 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	211	20.0	mg/kg	1	1942042	10/17/19	10/18/19	EPA 300.0/9056A	

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Section 12
P910087-12 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		103 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		95.9 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		113 %		50-200	1942044	10/17/19	10/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		103 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		95.9 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	82.9	20.0	mg/kg	1	1942042	10/17/19	10/18/19	EPA 300.0/9056A	
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Section 13
P910087-13 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		96.5 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		108 %		50-200	1942044	10/17/19	10/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		96.5 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	64.3	20.0	mg/kg	1	1942042	10/17/19	10/18/19	EPA 300.0/9056A	
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Section 14
P910087-14 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		108 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	
Surrogate: Toluene-d8		101 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		95.7 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
Surrogate: n-Nonane		118 %		50-200	1942044	10/17/19	10/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		108 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	
Surrogate: Toluene-d8		101 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		95.7 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	85.0	20.0	mg/kg	1	1942042	10/17/19	10/18/19	EPA 300.0/9056A	
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Section 15
P910087-15 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		94.4 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		119 %		50-200	1942044	10/17/19	10/18/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		94.4 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	102	20.0	mg/kg	1	1942042	10/17/19	10/18/19	EPA 300.0/9056A	

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Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: WLU 2309 24N Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/21/19 14:59
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Section 16
P910087-16 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		108 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	
Surrogate: Toluene-d8		102 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	
Surrogate: Bromofluorobenzene		95.4 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
Surrogate: n-Nonane		113 %		50-200	1942044	10/17/19	10/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		108 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	
Surrogate: Toluene-d8		102 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	
Surrogate: Bromofluorobenzene		95.4 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	82.6	20.0	mg/kg	1	1942042	10/17/19	10/18/19	EPA 300.0/9056A	
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Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: WLU 2309 24N Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/21/19 14:59
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Section 17
P910087-17 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		111 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		95.2 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942044	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		110 %		50-200	1942044	10/17/19	10/18/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942041	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		111 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		95.2 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	95.2	20.0	mg/kg	1	1942042	10/17/19	10/18/19	EPA 300.0/9056A	

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Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: WLU 2309 24N Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/21/19 14:59
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Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1942041 - Purge and Trap EPA 5030A

Blank (1942041-BLK1)

Prepared: 10/17/19 1 Analyzed: 10/18/19 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 1,2-Dichloroethane-d4	0.533		"	0.500		107	70-130			
Surrogate: Toluene-d8	0.511		"	0.500		102	70-130			
Surrogate: Bromofluorobenzene	0.463		"	0.500		92.6	70-130			

LCS (1942041-BS1)

Prepared: 10/17/19 1 Analyzed: 10/18/19 1

Benzene	2.65	0.0250	mg/kg	2.50		106	70-130			
Toluene	2.74	0.0250	"	2.50		109	70-130			
Ethylbenzene	2.80	0.0250	"	2.50		112	70-130			
p,m-Xylene	5.52	0.0500	"	5.00		110	70-130			
o-Xylene	2.74	0.0250	"	2.50		110	70-130			
Total Xylenes	8.26	0.0250	"	7.50		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.533		"	0.500		107	70-130			
Surrogate: Toluene-d8	0.531		"	0.500		106	70-130			
Surrogate: Bromofluorobenzene	0.500		"	0.500		100	70-130			

Matrix Spike (1942041-MS1)

Source: P910087-01

Prepared: 10/17/19 1 Analyzed: 10/18/19 1

Benzene	2.68	0.0250	mg/kg	2.50	ND	107	48-131			
Toluene	2.80	0.0250	"	2.50	ND	112	48-130			
Ethylbenzene	2.87	0.0250	"	2.50	ND	115	45-135			
p,m-Xylene	5.64	0.0500	"	5.00	ND	113	43-135			
o-Xylene	2.82	0.0250	"	2.50	ND	113	43-135			
Total Xylenes	8.45	0.0250	"	7.50	ND	113	43-135			
Surrogate: 1,2-Dichloroethane-d4	0.523		"	0.500		105	70-130			
Surrogate: Toluene-d8	0.525		"	0.500		105	70-130			
Surrogate: Bromofluorobenzene	0.501		"	0.500		100	70-130			

Matrix Spike Dup (1942041-MSD1)

Source: P910087-01

Prepared: 10/17/19 1 Analyzed: 10/18/19 1

Benzene	2.59	0.0250	mg/kg	2.50	ND	104	48-131	3.43	23	
Toluene	2.70	0.0250	"	2.50	ND	108	48-130	3.75	24	
Ethylbenzene	2.77	0.0250	"	2.50	ND	111	45-135	3.70	27	
p,m-Xylene	5.40	0.0500	"	5.00	ND	108	43-135	4.19	27	
o-Xylene	2.71	0.0250	"	2.50	ND	108	43-135	4.00	27	
Total Xylenes	8.11	0.0250	"	7.50	ND	108	43-135	4.13	27	
Surrogate: 1,2-Dichloroethane-d4	0.508		"	0.500		102	70-130			
Surrogate: Toluene-d8	0.529		"	0.500		106	70-130			
Surrogate: Bromofluorobenzene	0.503		"	0.500		101	70-130			

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Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: WLU 2309 24N Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/21/19 14:59
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Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1942044 - DRO Extraction EPA 3570										
Blank (1942044-BLK1)					Prepared: 10/17/19 2 Analyzed: 10/18/19 1					
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	54.1		"	50.0		108	50-200			
LCS (1942044-BS1)					Prepared: 10/17/19 2 Analyzed: 10/18/19 1					
Diesel Range Organics (C10-C28)	522	25.0	mg/kg	500		104	38-132			
Surrogate: n-Nonane	51.8		"	50.0		104	50-200			
Matrix Spike (1942044-MS1)					Source: P910087-17 Prepared: 10/17/19 2 Analyzed: 10/18/19 1					
Diesel Range Organics (C10-C28)	518	25.0	mg/kg	500	ND	104	38-132			
Surrogate: n-Nonane	56.1		"	50.0		112	50-200			
Matrix Spike Dup (1942044-MSD1)					Source: P910087-17 Prepared: 10/17/19 2 Analyzed: 10/18/19 1					
Diesel Range Organics (C10-C28)	521	25.0	mg/kg	500	ND	104	38-132	0.528	20	
Surrogate: n-Nonane	55.0		"	50.0		110	50-200			

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Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1942041 - Purge and Trap EPA 5030A

Blank (1942041-BLK1)

Prepared: 10/17/19 1 Analyzed: 10/18/19 1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.533		"	0.500		107	70-130			
Surrogate: Toluene-d8	0.511		"	0.500		102	70-130			
Surrogate: Bromofluorobenzene	0.463		"	0.500		92.6	70-130			

LCS (1942041-BS2)

Prepared: 10/17/19 1 Analyzed: 10/18/19 1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Gasoline Range Organics (C6-C10)	51.3	20.0	mg/kg	50.0		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.514		"	0.500		103	70-130			
Surrogate: Toluene-d8	0.527		"	0.500		105	70-130			
Surrogate: Bromofluorobenzene	0.483		"	0.500		96.6	70-130			

Matrix Spike (1942041-MS2)

Source: P910087-01

Prepared: 10/17/19 1 Analyzed: 10/18/19 1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Gasoline Range Organics (C6-C10)	51.7	20.0	mg/kg	50.0	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		"	0.500		102	70-130			
Surrogate: Toluene-d8	0.532		"	0.500		106	70-130			
Surrogate: Bromofluorobenzene	0.489		"	0.500		97.8	70-130			

Matrix Spike Dup (1942041-MSD2)

Source: P910087-01

Prepared: 10/17/19 1 Analyzed: 10/18/19 1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Gasoline Range Organics (C6-C10)	49.2	20.0	mg/kg	50.0	ND	98.4	70-130	4.96	20	
Surrogate: 1,2-Dichloroethane-d4	0.500		"	0.500		99.9	70-130			
Surrogate: Toluene-d8	0.527		"	0.500		105	70-130			
Surrogate: Bromofluorobenzene	0.491		"	0.500		98.2	70-130			

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Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: WLU 2309 24N Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/21/19 14:59
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Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1942042 - Anion Extraction EPA 300.0/9056A										
Blank (1942042-BLK1)					Prepared: 10/17/19 1 Analyzed: 10/17/19 2					
Chloride	ND	20.0	mg/kg							
LCS (1942042-BS1)					Prepared: 10/17/19 1 Analyzed: 10/17/19 2					
Chloride	256	20.0	mg/kg	250		102	90-110			
Matrix Spike (1942042-MS1)					Source: P910087-01 Prepared: 10/17/19 1 Analyzed: 10/17/19 2					
Chloride	292	20.0	mg/kg	250	37.3	102	80-120			
Matrix Spike Dup (1942042-MSD1)					Source: P910087-01 Prepared: 10/17/19 1 Analyzed: 10/17/19 2					
Chloride	291	20.0	mg/kg	250	37.3	101	80-120	0.367	20	

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Enduring Resources, LLC	Project Name:	WLU 2309 24N	
511 16th Street, Suite 700	Project Number:	17065-0017	Reported:
Denver CO, 80202	Project Manager:	Chad Snell	10/21/19 14:59

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Project Information

Chain of Custody

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Client: <u>Enduro Resources</u> Project: <u>WLU 2309 24N</u> Project Manager: <u>Chad Small</u> Address: <u>200 Energy Court</u> City, State, Zip: <u>Farmington NM 87401</u> Phone: <u>(505) 444-0586</u> Email: <u>C.Small@enduroresources.com</u>					Report Attention Report due by: _____ Attention: _____ Address: _____ City, State, Zip: _____ Phone: _____ Email: _____					Lab Use Only Lab WO# <u>P 910087</u> Job Number <u>17065-0017</u> X Analysis and Method			TAT 1D 3D		EPA Program RCRA CWA SDWA		
								State NM CO UT AZ TX OK									
Time Sampled	Date Sampled	Matrix	No. Containers	Sample ID	Lab Number	ORO/ORO by 8015	GR0/GR0 by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 3000	Remarks					
9:40	10-17-19	S	1	Section 1	1	X	X	X		X							
9:45			1	Section 2	2	X	X	X		X							
9:50			1	Section 3	3	X	X	X		X							
9:55			1	Section 4	4	X	X	X		X							
10:00			1	Section 5	5	X	X	X		X							
10:05			1	Section 6	6	X	X	X		X							
10:10			1	Section 7	7	X	X	X		X							
10:15			1	Section 8	8	X	X	X		X							
10:20			1	Section 9	9	X	X	X		X							
10:25			1	Section 10	10	X	X	X		X							
Additional Instructions:																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Chad Small 10-17-19</u>																	
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.																	
Relinquished by: (Signature) <u>MS</u>		Date <u>10-17-19</u>		Time <u>4:30pm</u>		Received by: (Signature) <u>R. Dine Lopez</u>		Date <u>10/17/19</u>		Time <u>16:30</u>		Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N					
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1		T2		T3	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C <u>4</u>					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																	
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																	
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	

Project Information

Chain of Custody

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Client: <u>Enduring Resources</u> Project: <u>WLU 2309 24N</u> Project Manager: <u>Chad Small</u> Address: <u>200 Energy Court</u> City, State, Zip: <u>Farmington NM 87401</u> Phone: <u>(505) 444-0586</u> Email: <u>C.Small@enduringresources.com</u>					Report Attention Report due by: _____ Attention: _____ Address: _____ City, State, Zip: _____ Phone: _____ Email: _____					Lab Use Only Lab WO# <u>P910087</u> Job Number <u>170605-007</u>			TAT 1D <input type="checkbox"/> 3D <input checked="" type="checkbox"/>		EPA Program RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/>		
					Analysis and Method			State NM <input type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/> OK <input type="checkbox"/>									
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRD/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6030	Chloride 3000	Remarks					
10:30	10-17-19	S	1	Section 11	11												
10:35			1	Section 12	12												
10:40			1	Section 13	13												
10:45			1	Section 14	14												
10:50			1	Section 15	15												
10:55			1	Section 16	16												
11:00			1	Section 17	17												

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Chad Small 10-17-19

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>10-17-19</u>	Time <u>4:30 PM</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>10/17/19</u>	Time <u>16:30</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



5795 US Highway 64 Farmington, NM 87401
 24 Hour Emergency Response Phone (800) 362-1679

Ph (505) 632-1881 Fx (505) 632-1665

envirotech-inc.com
 labadmin@envirotech-inc.com

Project Information

Chain of Custody

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Client: <u>Enduring Resources</u> Project: <u>WLU 2309 24N</u> Project Manager: <u>Chad Snell</u> Address: <u>200 Energy Court</u> City, State, Zip: <u>Farmington, NM 87401</u> Phone: <u>(505) 444-0886</u> Email: <u>CSnell@enduringresources.com</u>				Report Attention Report due by: _____ Attention: _____ Address: _____ City, State, Zip: _____ Phone: _____ Email: _____				Lab Use Only Lab WO# <u>P 910083</u> Job Number <u>F7005-0019</u> Analysis and Method				TAT 1D <input type="checkbox"/> 3D <input checked="" type="checkbox"/>		EPA Program RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/>		
										State NM <input type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/> OK <input type="checkbox"/>						
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	Remarks				
9:40	10/17/19	S	1	Section 1	1	X	X	X		X						
9:45			1	Section 2	2	X	X	X		X						
9:50			1	Section 3	3	X	X	X		X						
9:55			1	Section 4	4	X	X	X		X						
10:00			1	Section 5	5	X	X	X		X						
10:05			1	Section 6	6	X	X	X		X						
10:10			1	Section 7	7	X	X	X		X						
10:15			1	Section 8	8	X	X	X		X						
10:20			1	Section 9	9	X	X	X		X						
10:25			1	Section 10	10	X	X	X		X						
Additional Instructions:																
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Chad Snell</u> 10-17-19						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5C on subsequent days. <u>vis ice in cooler</u>										
Relinquished by: (Signature) <u>[Signature]</u>		Date: <u>10-17-19</u> Time: <u>4:30pm</u>		Received by: (Signature) <u>[Signature]</u>		Date: <u>10/17/19</u> Time: <u>10:30</u>		Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N								
Relinquished by: (Signature) _____		Date: _____ Time: _____		Received by: (Signature) _____		Date: _____ Time: _____		T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>								
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____						
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																



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 24 Hour Emergency Response Phone: (800) 352-1879

Ph (505) 632-1361 Fx (505) 632-1665

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 labadmin@envirotech-inc.com

Project Information

Chain of Custody

Client: Enduring Resources
 Project: W20230924N
 Project Manager: Ched Small
 Address: 200 Farmington Hwy 83401
 City, State, Zip: Farmington, NY 83401
 Phone: (885) 444-0586
 Email: C.Small@enduringresources.com

Report due by:
 Attention:
 Address:
 City, State, Zip:
 Phone:
 Email:

Lab Use Only
 Lab WO# P910083
 Job Number 17065-0017
 Analysis and Method

EPA Program
 TAT
 ID 3D
 RCRA
 CWA
 SDWA

State
 NM | CO | UT | AZ
 TX | OK

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	Remarks
10:10	10-17-19	S	1	Section 11	11	X	X	X			X	
10:35			1	Section 12	12	X	X	X			X	
10:40			1	Section 13	13	X	X	X			X	
10:45			1	Section 14	14	X	X	X			X	
10:50			1	Section 15	15	X	X	X			X	
10:55			1	Section 16	16	X	X	X			X	
11:00			1	Section 17	17	X	X	X			X	per client 10/17/19 RL

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Ched Small 10-17-19

Sampler requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6C on subsequent days. visite incobler

Relinquished by: (Signature) [Signature] Date 10-17-19 Time 4:38 PM Received by: (Signature) Rain Stapp Date 10/17/19 Time 16:30

Relinquished by: (Signature) _____ Date _____ Time _____ Received by: (Signature) _____ Date _____ Time _____

Relinquished by: (Signature) _____ Date _____ Time _____ Received by: (Signature) _____ Date _____ Time _____

Sample Matrix: S - Soil, SD - Solid, SF - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



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Analytical Laboratory

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Analytical Report

Report Summary

Client: Enduring Resources, LLC

Samples Received: 10/24/2019

Job Number: 17065-0017

Work Order: P910155

Project Name/Location: WLU 2309 24N

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a horizontal line.

Date: 10/28/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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 Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
 Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: WLU 2309 24N Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/28/19 14:09
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Section 5	P910155-01A	Soil	10/24/19	10/24/19	Glass Jar, 4 oz.
Section 6	P910155-02A	Soil	10/24/19	10/24/19	Glass Jar, 4 oz.
Section 7	P910155-03A	Soil	10/24/19	10/24/19	Glass Jar, 4 oz.

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Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: WLU 2309 24N Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/28/19 14:09
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Section 5
P910155-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %		50-150	1943032	10/24/19	10/24/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943035	10/24/19	10/25/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943035	10/24/19	10/25/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		119 %		50-200	1943035	10/24/19	10/25/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.2 %		50-150	1943032	10/24/19	10/24/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	35.6	20.0	mg/kg	1	1943034	10/24/19	10/24/19	EPA 300.0/9056A	

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Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: WLU 2309 24N Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/28/19 14:09
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Section 6
P910155-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<u>Volatile Organics by EPA 8021</u>									
Benzene	ND	0.0250	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %		50-150	1943032	10/24/19	10/24/19	EPA 8021B	
<u>Nonhalogenated Organics by 8015 - DRO/ORO</u>									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943035	10/24/19	10/25/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943035	10/24/19	10/25/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		119 %		50-200	1943035	10/24/19	10/25/19	EPA 8015D	
<u>Nonhalogenated Organics by 8015 - GRO</u>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.9 %		50-150	1943032	10/24/19	10/24/19	EPA 8015D	
<u>Anions by 300.0/9056A</u>									
Chloride	38.0	20.0	mg/kg	1	1943034	10/24/19	10/24/19	EPA 300.0/9056A	

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**Section 7
P910155-03 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %		50-150	1943032	10/24/19	10/24/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943035	10/24/19	10/25/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943035	10/24/19	10/25/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		122 %		50-200	1943035	10/24/19	10/25/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.5 %		50-150	1943032	10/24/19	10/24/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	48.1	20.0	mg/kg	1	1943034	10/24/19	10/24/19	EPA 300.0/9056A	

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Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1943032 - Purge and Trap EPA 5030A

Blank (1943032-BLK1)

Prepared: 10/24/19 1 Analyzed: 10/24/19 2

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.59		"	8.00		107	50-150			

LCS (1943032-BS1)

Prepared: 10/24/19 1 Analyzed: 10/24/19 2

Benzene	4.51	0.0250	mg/kg	5.00		90.3	70-130			
Toluene	4.70	0.0250	"	5.00		94.1	70-130			
Ethylbenzene	4.77	0.0250	"	5.00		95.5	70-130			
p,m-Xylene	9.53	0.0500	"	10.0		95.3	70-130			
o-Xylene	4.81	0.0250	"	5.00		96.2	70-130			
Total Xylenes	14.3	0.0250	"	15.0		95.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.71		"	8.00		109	50-150			

Matrix Spike (1943032-MS1)

Source: P910153-01

Prepared: 10/24/19 1 Analyzed: 10/24/19 2

Benzene	4.27	0.0250	mg/kg	5.00	ND	85.4	54.3-133			
Toluene	4.46	0.0250	"	5.00	ND	89.1	61.4-130			
Ethylbenzene	4.54	0.0250	"	5.00	ND	90.7	61.4-133			
p,m-Xylene	9.06	0.0500	"	10.0	ND	90.6	63.3-131			
o-Xylene	4.57	0.0250	"	5.00	ND	91.3	63.3-131			
Total Xylenes	13.6	0.0250	"	15.0	ND	90.8	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8.63		"	8.00		108	50-150			

Matrix Spike Dup (1943032-MSD1)

Source: P910153-01

Prepared: 10/24/19 1 Analyzed: 10/25/19 0

Benzene	4.20	0.0250	mg/kg	5.00	ND	84.1	54.3-133	1.51	20	
Toluene	4.38	0.0250	"	5.00	ND	87.6	61.4-130	1.76	20	
Ethylbenzene	4.46	0.0250	"	5.00	ND	89.1	61.4-133	1.78	20	
p,m-Xylene	8.89	0.0500	"	10.0	ND	88.9	63.3-131	1.84	20	
o-Xylene	4.48	0.0250	"	5.00	ND	89.7	63.3-131	1.85	20	
Total Xylenes	13.4	0.0250	"	15.0	ND	89.2	63.3-131	1.84	20	
Surrogate: 4-Bromochlorobenzene-PID	8.65		"	8.00		108	50-150			

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Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1943035 - DRO Extraction EPA 3570										
Blank (1943035-BLK1) Prepared: 10/24/19 1 Analyzed: 10/25/19 0										
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	59.6		"	50.0		119	50-200			
LCS (1943035-BS1) Prepared: 10/24/19 1 Analyzed: 10/25/19 0										
Diesel Range Organics (C10-C28)	519	25.0	mg/kg	500		104	38-132			
Surrogate: n-Nonane	60.3		"	50.0		121	50-200			
Matrix Spike (1943035-MS1) Source: P910153-01 Prepared: 10/24/19 1 Analyzed: 10/25/19 0										
Diesel Range Organics (C10-C28)	520	25.0	mg/kg	500	ND	104	38-132			
Surrogate: n-Nonane	59.6		"	50.0		119	50-200			
Matrix Spike Dup (1943035-MSD1) Source: P910153-01 Prepared: 10/24/19 1 Analyzed: 10/25/19 0										
Diesel Range Organics (C10-C28)	529	25.0	mg/kg	500	ND	106	38-132	1.85	20	
Surrogate: n-Nonane	61.5		"	50.0		123	50-200			

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Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: WLU 2309 24N Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/28/19 14:09
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Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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Batch 1943032 - Purge and Trap EPA 5030A

Blank (1943032-BLK1)

Prepared: 10/24/19 1 Analyzed: 10/24/19 2

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		"	8.00		95.6	50-150			

LCS (1943032-BS2)

Prepared: 10/24/19 1 Analyzed: 10/25/19 0

Gasoline Range Organics (C6-C10)	52.6	20.0	mg/kg	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		"	8.00		94.5	50-150			

Matrix Spike (1943032-MS2)

Source: P910153-01

Prepared: 10/24/19 1 Analyzed: 10/25/19 0

Gasoline Range Organics (C6-C10)	52.3	20.0	mg/kg	50.0	ND	105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		"	8.00		95.2	50-150			

Matrix Spike Dup (1943032-MSD2)

Source: P910153-01

Prepared: 10/24/19 1 Analyzed: 10/25/19 0

Gasoline Range Organics (C6-C10)	54.0	20.0	mg/kg	50.0	ND	108	70-130	3.17	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		"	8.00		95.3	50-150			

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Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1943034 - Anion Extraction EPA 300.0/9056A										
Blank (1943034-BLK1)				Prepared & Analyzed: 10/24/19 1						
Chloride	ND	20.0	mg/kg							
LCS (1943034-BS1)				Prepared & Analyzed: 10/24/19 1						
Chloride	255	20.0	mg/kg	250		102	90-110			
Matrix Spike (1943034-MS1)				Source: P910153-01		Prepared & Analyzed: 10/24/19 1				
Chloride	275	20.0	mg/kg	250	ND	110	80-120			
Matrix Spike Dup (1943034-MSD1)				Source: P910153-01		Prepared & Analyzed: 10/24/19 1				
Chloride	275	20.0	mg/kg	250	ND	110	80-120	0.193	20	

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: WLU 2309 24N Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/28/19 14:09
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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
 - NR Not Reported
 - RPD Relative Percent Difference
 - ** Methods marked with ** are non-accredited methods.
- Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Project Information

Chain of Custody

Page 1 of 11

Page 11 of 11

Client: <u>Enduring Resources</u> Project: <u>WLU 2309 24N</u> Project Manager: <u>Chad Saul</u> Address: <u>200 Energy Court</u> City, State, Zip: <u>Farmington, NM</u> Phone: <u>(505) 444-0586</u> Email: <u>CSaul@enduringresources.com</u> <u>jsmedental@enduringresources.com</u>				Report Attention Report due by: _____ Attention: _____ Address: _____ City, State, Zip: _____ Phone: _____ Email: _____				Lab Use Only Lab WO# <u>P91055</u> Job Number <u>170650017</u> Analysis and Method DRD/DRD by 8015 GMD/DRD by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0						TAT 1D 3D		EPA Program RCRA CWA SDWA State NM CO UT AZ TX OK			
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRD/DRD by 8015	GMD/DRD by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	1D	3D	RCRA	CWA	SDWA	State	Remarks	
10:20	10-24-19	S	1	Section 5	1	X	X	X			X								
10:25	10-24-19	S	1	Section 6	2	X	X	X			X								
10:30	10-24-19	S	1	Section 7	3	X	X	X			X								
Additional Instructions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>[Signature]</u> 10-24-19																			
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA											
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



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