

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

### Location of Release Source

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

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

Unit Letter	Section	Township	Range	County
	<b>24</b>	<b>23N</b>	<b>9W</b>	<b>Sandoval</b>

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): <b>23 bbls</b>	Volume Recovered (bbls): <b>0</b>
	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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<p>Was this a major release as defined by 19.15.29.7(A) NMAC?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>If YES, for what reason(s) does the responsible party consider this a major release?</p>
<p>If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?</p>	

## 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.	<input type="checkbox"/> The release has 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: _____	
<b><u>OCD Only</u></b>	
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 <b>not</b> 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 ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

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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 TechSignature:  Date: 12-5-2019email: 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: \_\_\_\_\_

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## 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: csnell@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 17<sup>th</sup> 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 24<sup>th</sup> 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

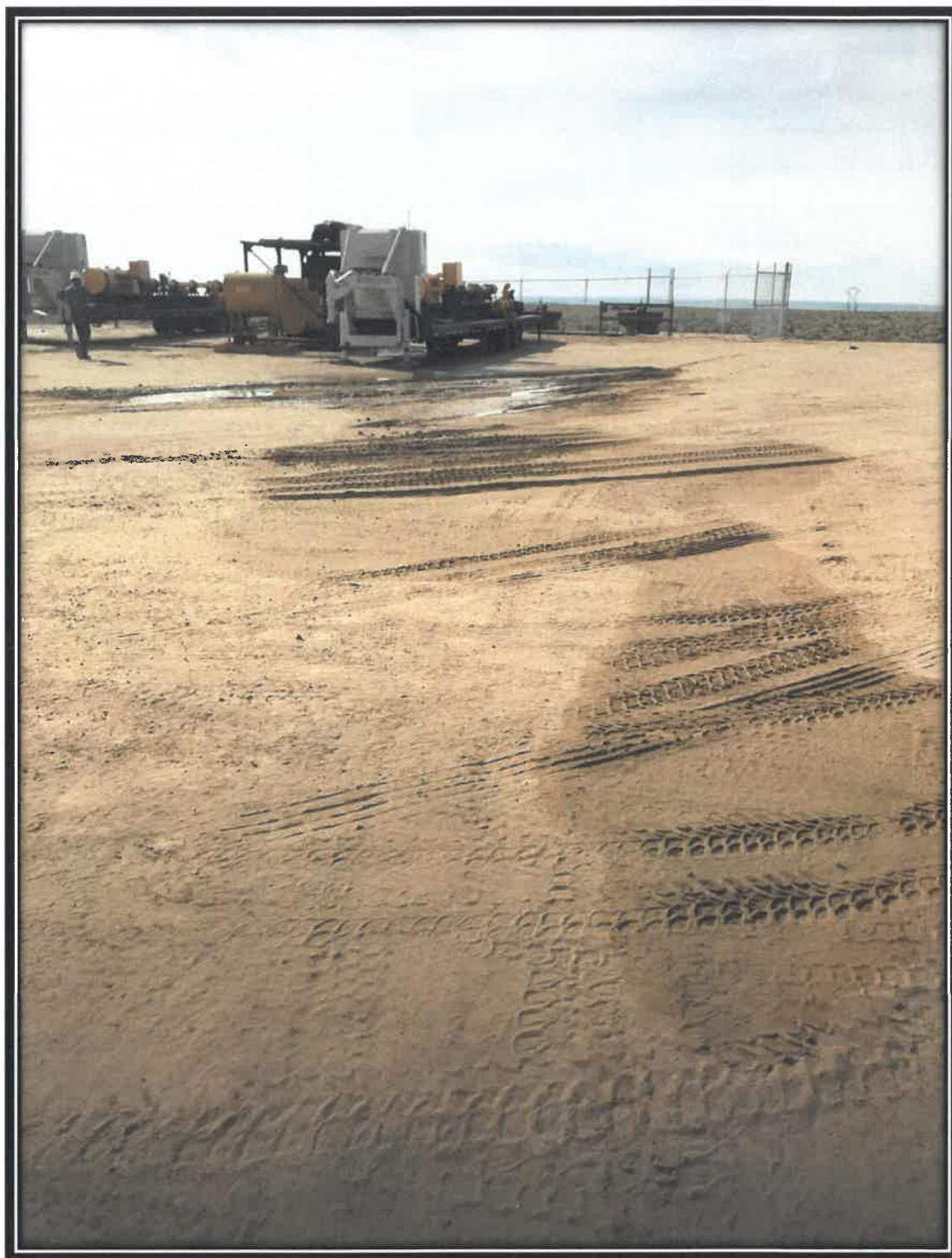


Photo 3: Spill Area (View 2)



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

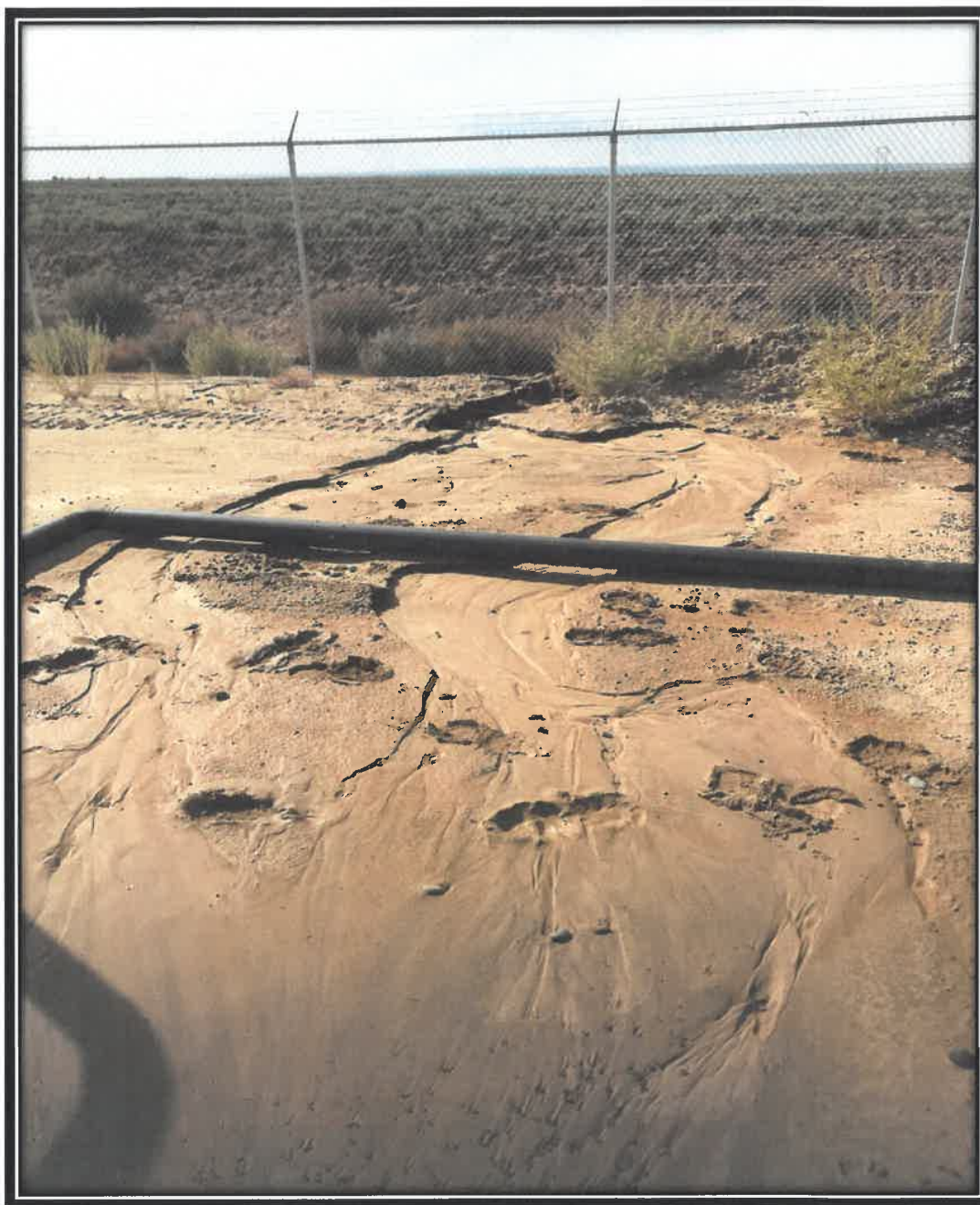


Photo 4: Spill Area (View 3)





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

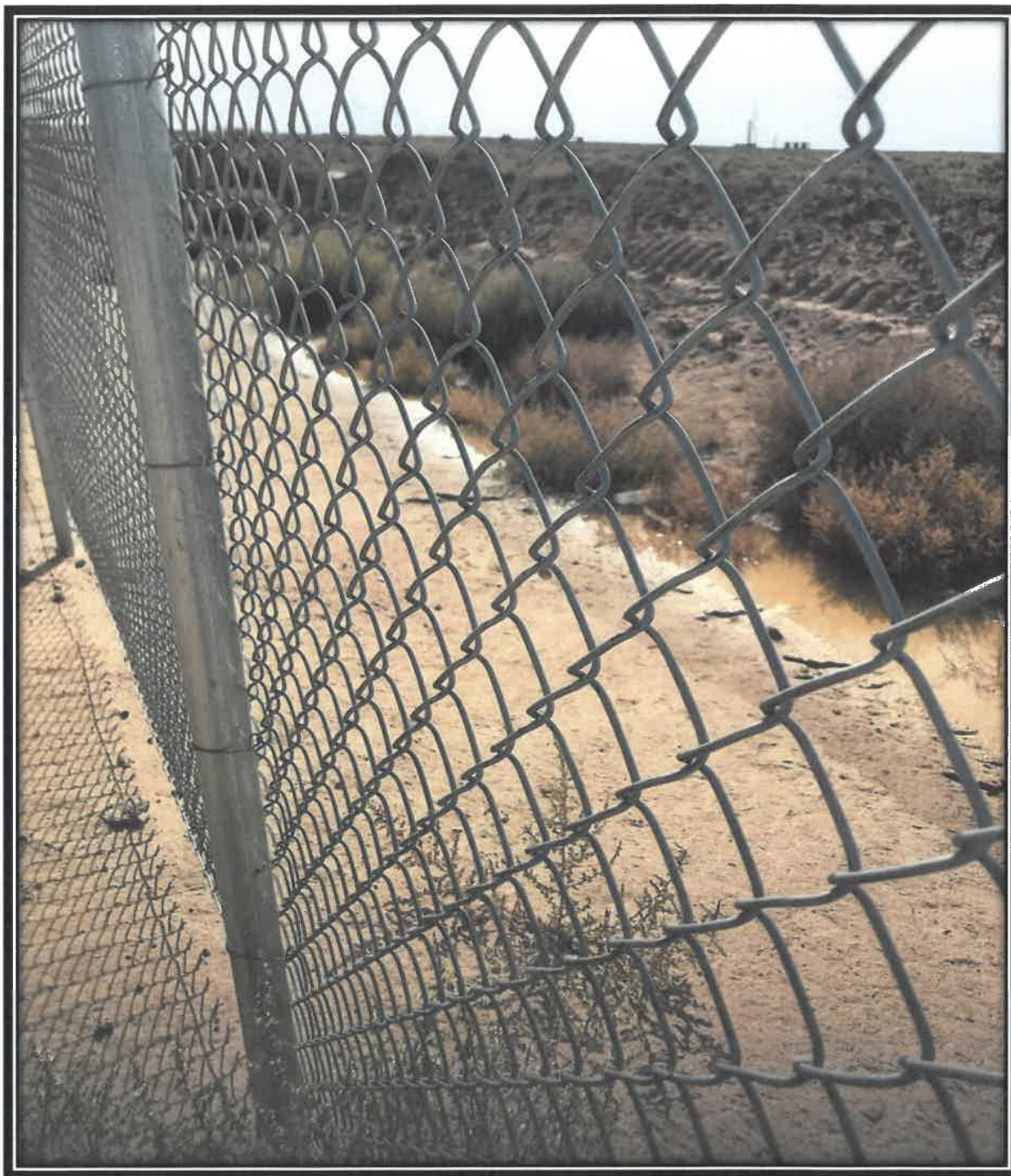


Photo 5: Spill Area (View 4)



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

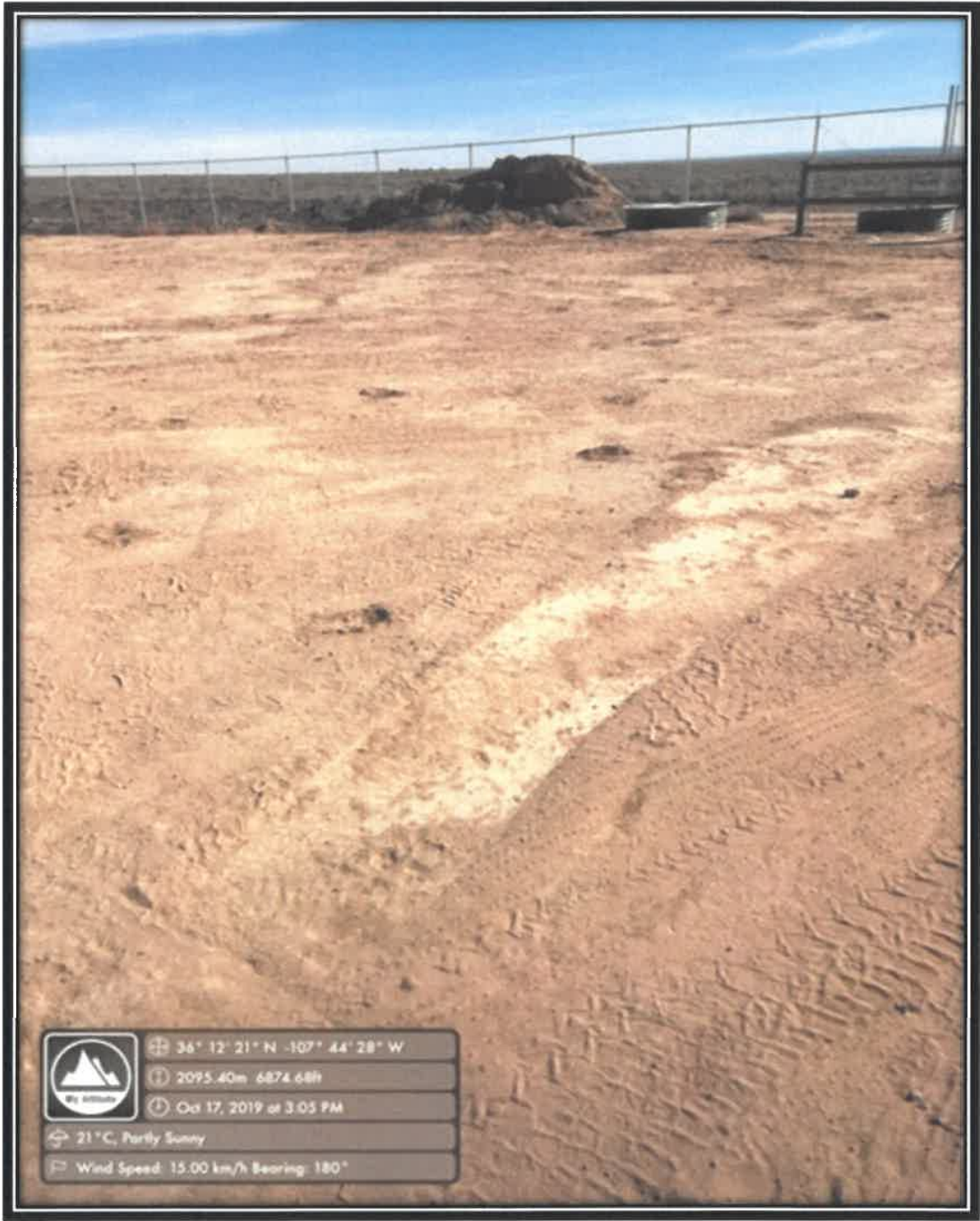


Photo 7: After Clean-up: Sampling Event 1





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Spill Closure Report  
WLU 2309 24N Release



Photo 8: After Clean-up: Sampling Event 1



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WLU 2309 24N Release



Photo 9: After Clean-up: Sampling Event 1





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Spill Closure Report  
WLU 2309 24N Release

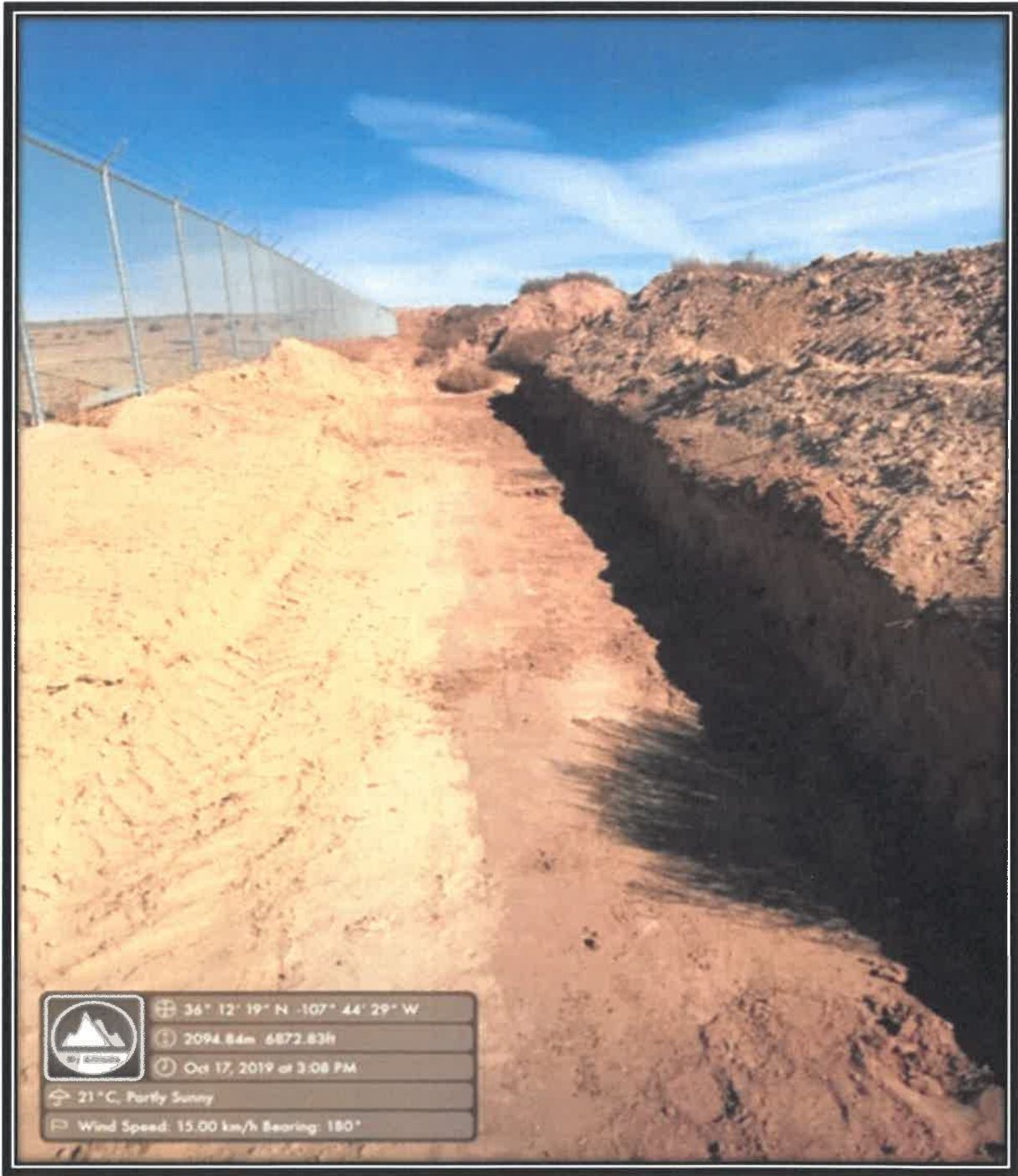


Photo 10: After Clean-up: Sampling Event 1



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

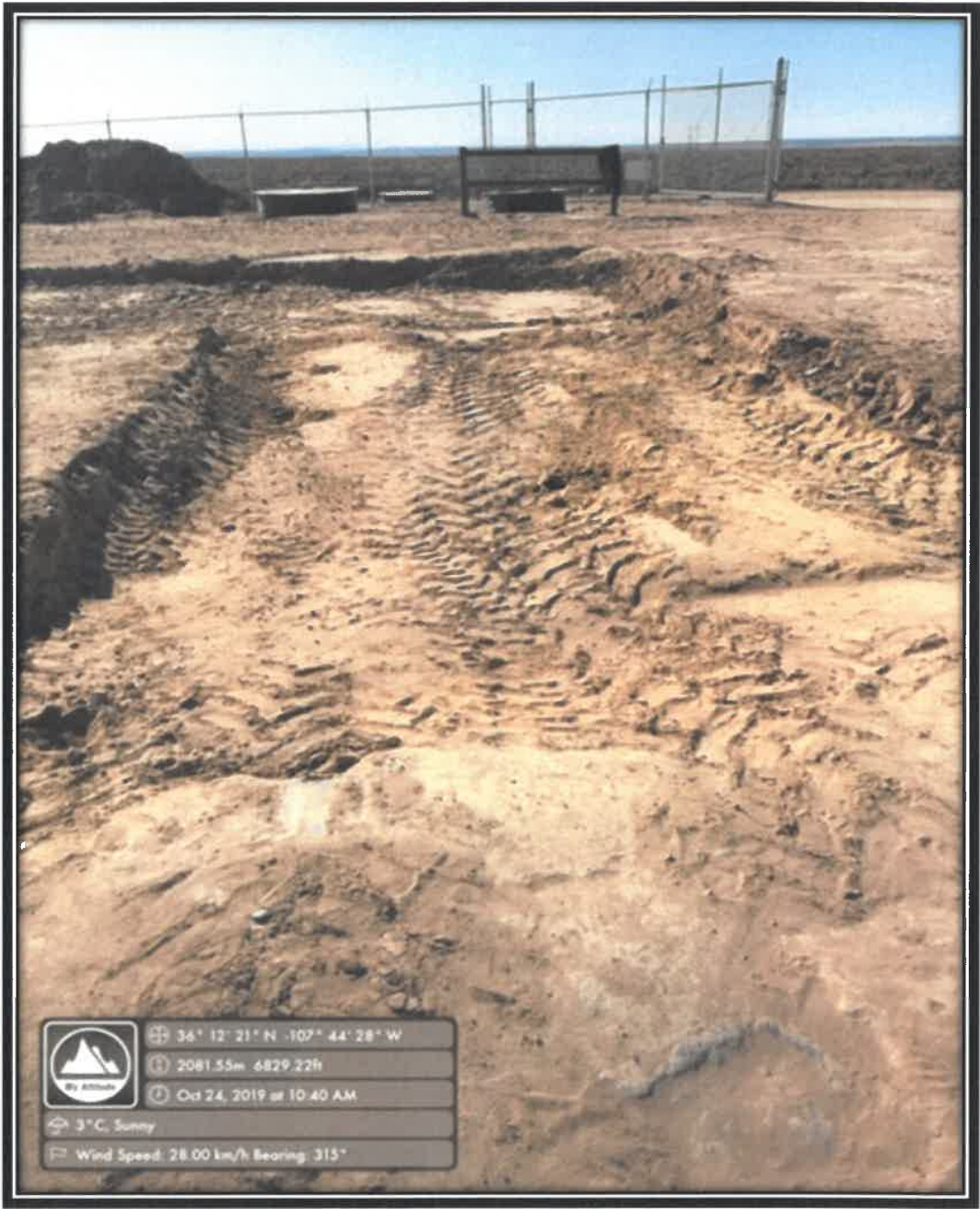


Photo 11: After Clean-up: Sampling Event 2





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



Photo 11: After Clean-up: Sampling Event 2

**Chad Snell**

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**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 24<sup>th</sup> 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 17<sup>th</sup> 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

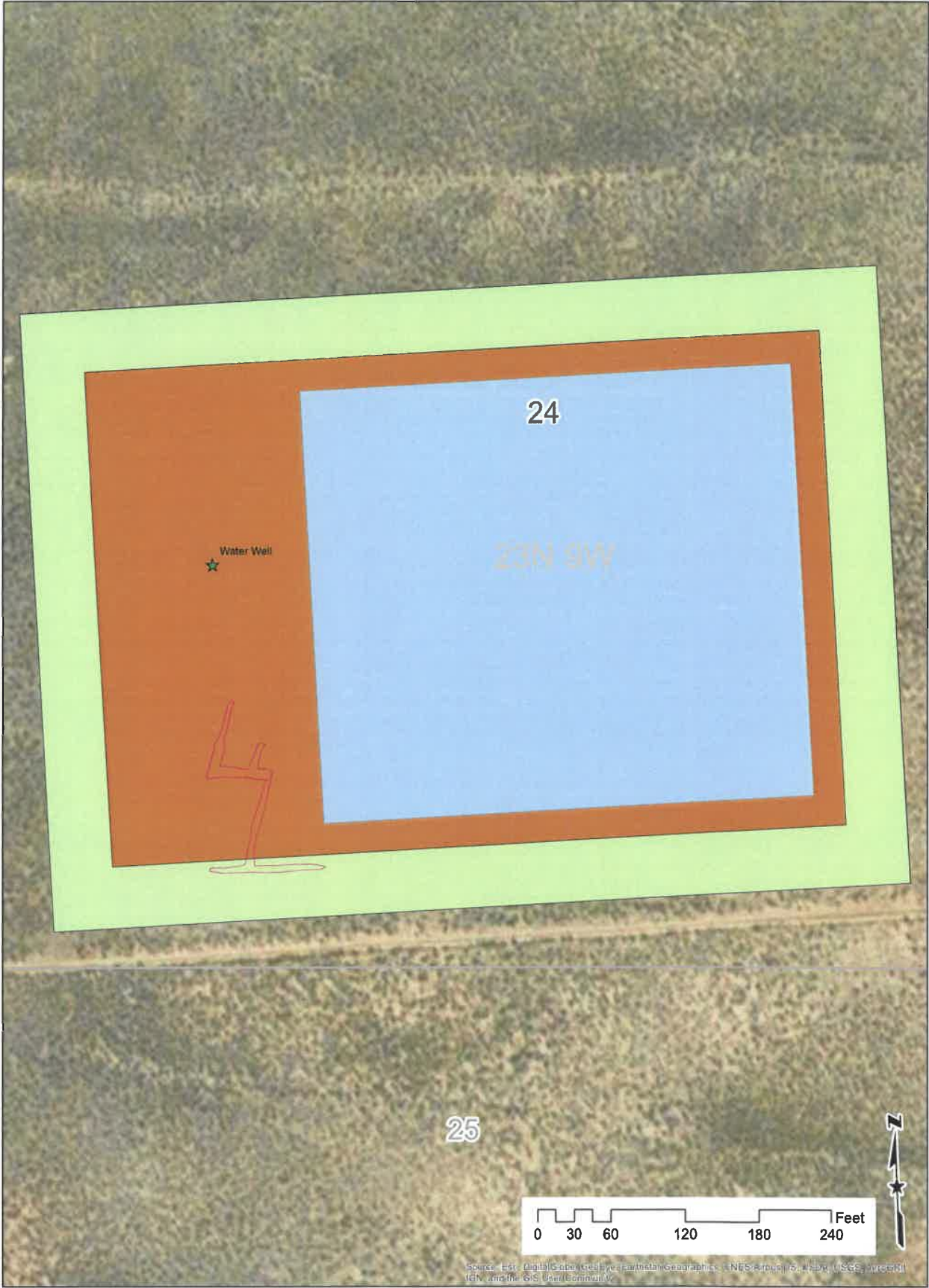
Chad Snell  
HSE Tech  
Enduring Resources  
(505) 444-0586.

**WLU 2309 24N**

Sample Name	Description	Date	Time	DRO	GRO	DRO+	ORO	Total TPH	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	Chlorides	Square Footage
STANDARD	Top 4 Feet	NA	NA	NA	NA	100	NA	100	10	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	ND	48.1	200







WLU 24N Pad

Updated: 11/12/2019



ENDURING  
RESOURCES, LLC

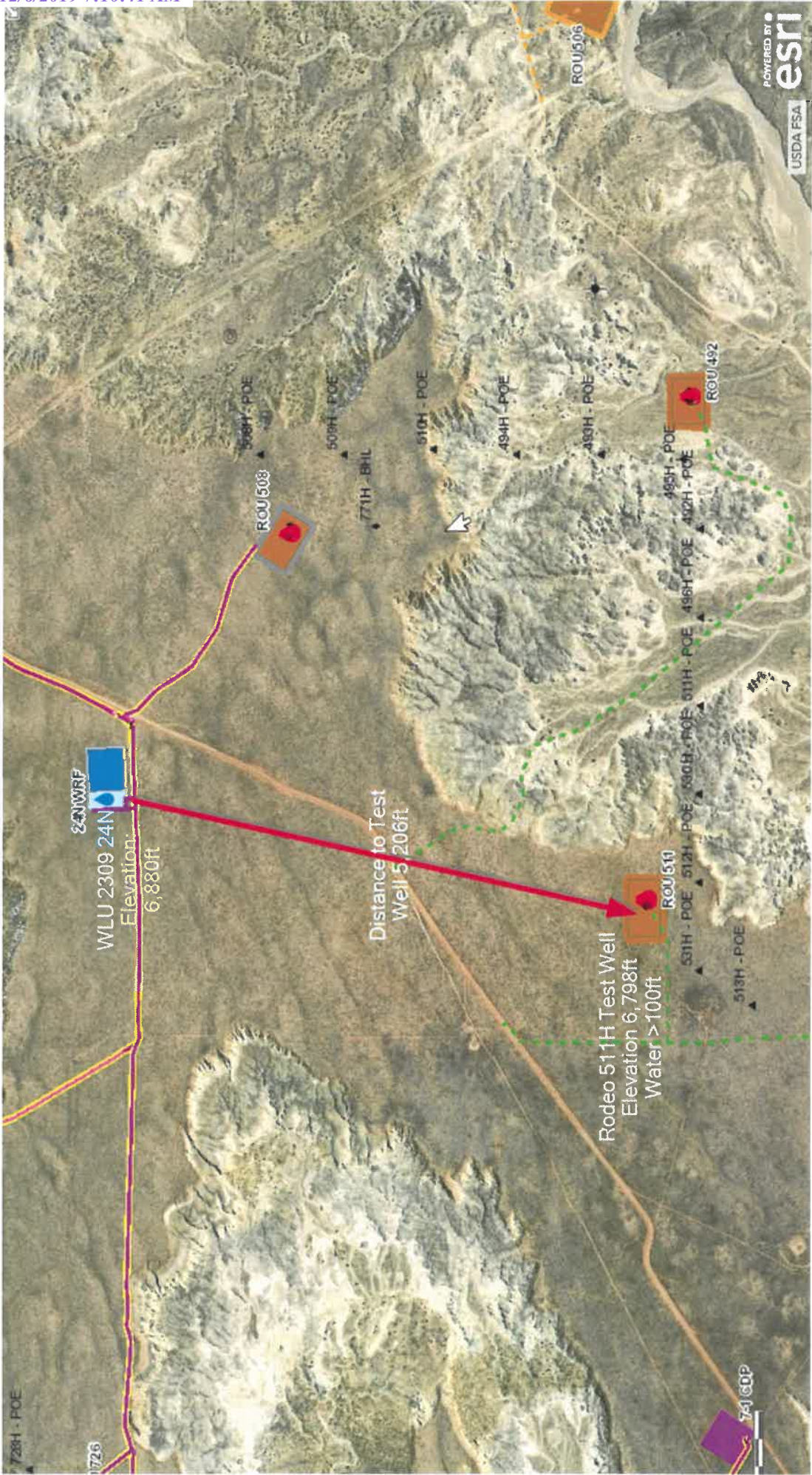


**MO-TE DRILLING, INC.**

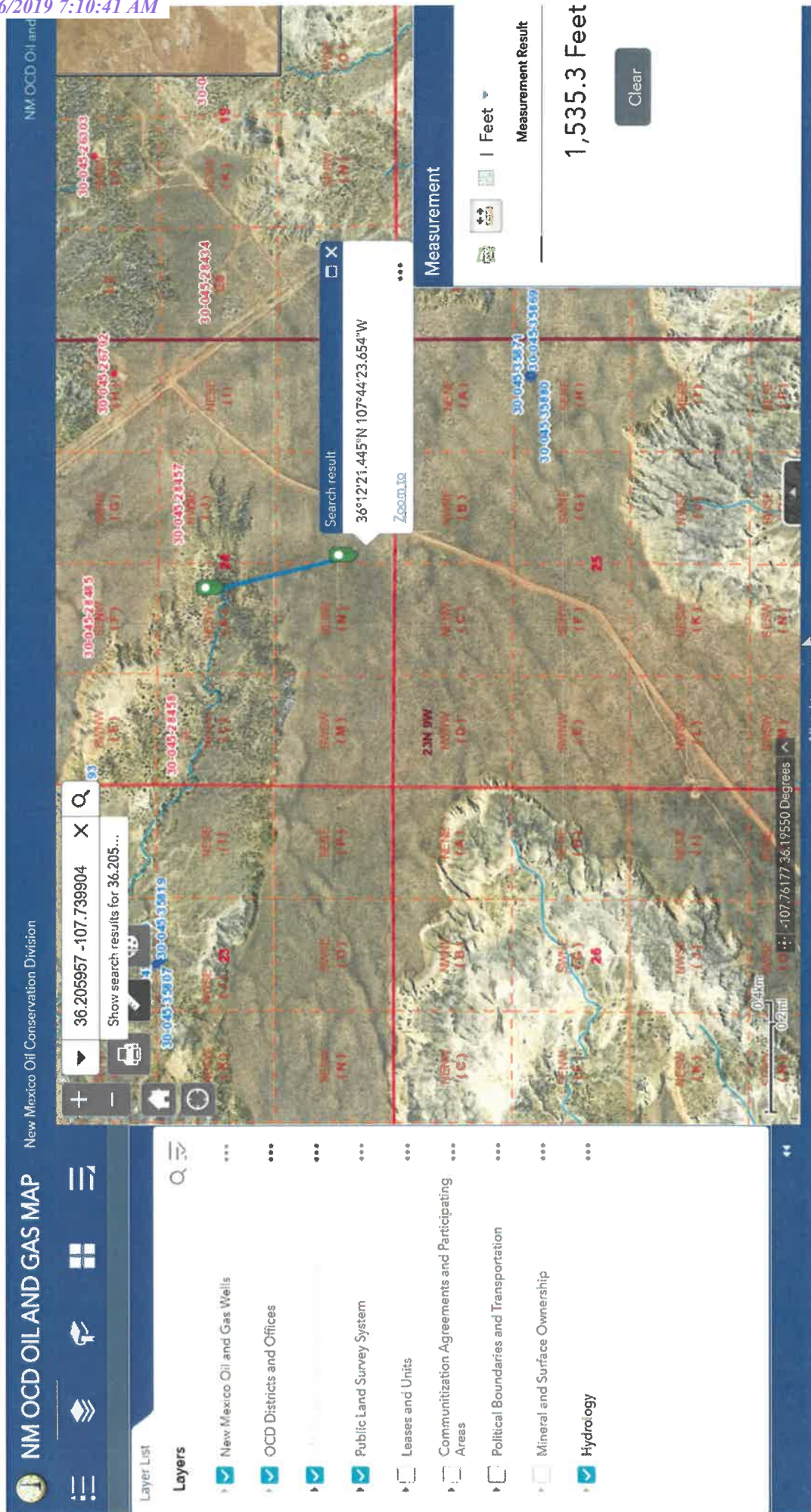
NO. OF LOADS OF WATER \_\_\_\_\_ SOURCE \_\_\_\_\_

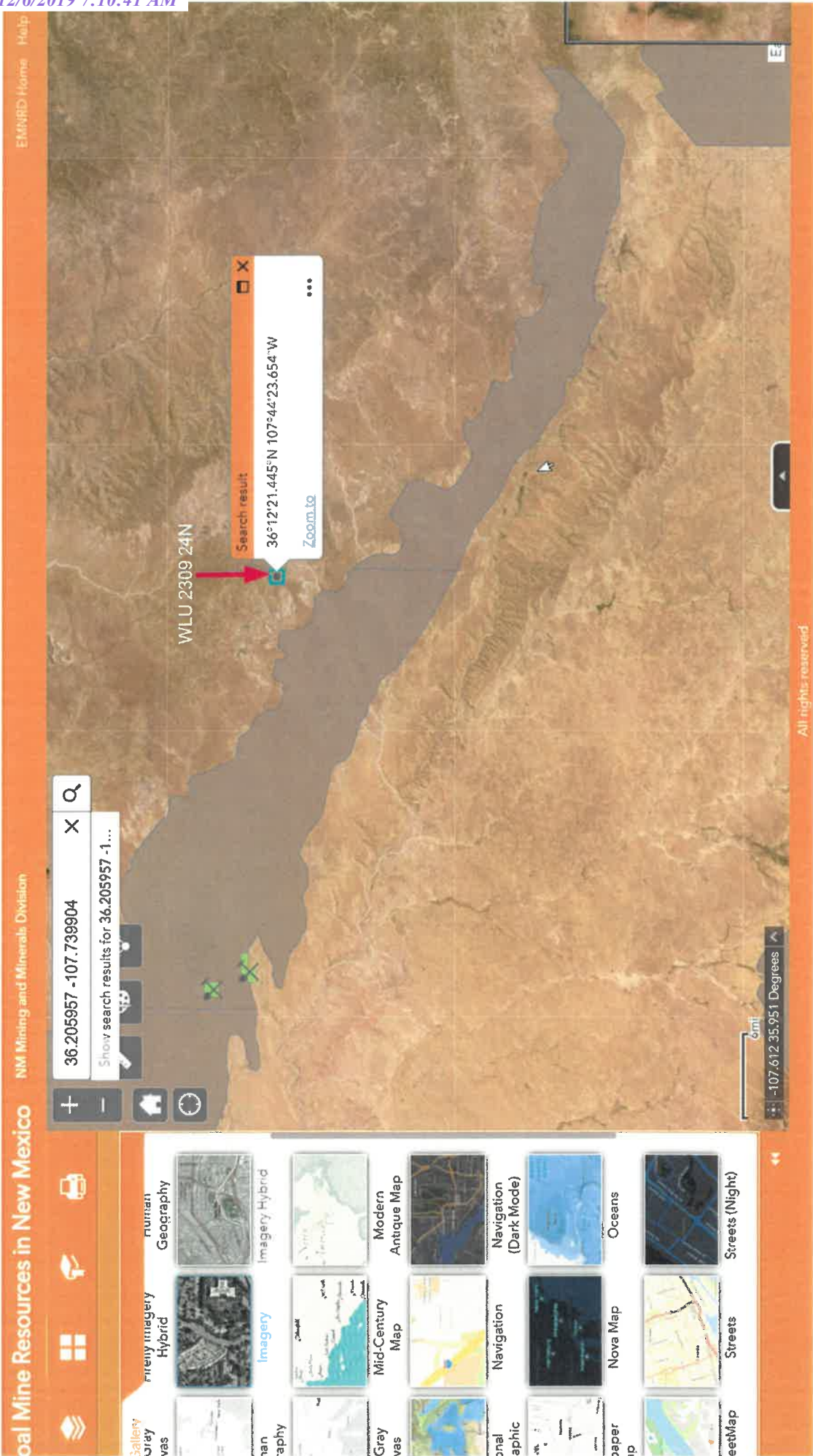
san juan repr farm, nm Form 219-6

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# National Flood Hazard Layer FIRMette

36°12'35.96"N



Received by OCD: 12/6/2019 7:10:41 AM

## 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 X

**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
- Jurisdiction Boundary
- 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.



107°44'4.93"W

USGS The National Map: Orthoimagery. Data refreshed April, 2019.

36°12'6.93"N







## 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
<b>Volatile Organic Compounds by 8260</b>									
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		106 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
Surrogate: Toluene-d8		102 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
Surrogate: Bromofluorobenzene		95.4 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
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		103 %		50-200	1942044	10/17/19	10/18/19	EPA 8015D	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
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		106 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
Surrogate: Toluene-d8		102 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
Surrogate: Bromofluorobenzene		95.4 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
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
<b><u>Volatile Organic Compounds by 8260</u></b>									
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		110 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
Surrogate: Toluene-d8		102 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
Surrogate: Bromofluorobenzene		96.9 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
<b><u>Nonhalogenated Organics by 8015 - DRO/ORO</u></b>									
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		98.8 %		50-200	1942044	10/17/19	10/18/19	EPA 8015D	
<b><u>Nonhalogenated Organics by 8015 - GRO</u></b>									
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		110 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
Surrogate: Toluene-d8		102 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
Surrogate: Bromofluorobenzene		96.9 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
<b><u>Anions by 300.0/9056A</u></b>									
Chloride	35.6	20.0	mg/kg	1	1942042	10/17/19	10/18/19	EPA 300.0/9056A	

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Denver CO, 80202

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Project Number: 17065-0017  
Project Manager: Chad Snell

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10/21/19 14:59

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

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organic Compounds by 8260</b>									
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	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
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	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
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	
<b>Anions by 300.0/9056A</b>									
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	
Surrogate: 1,2-Dichloroethane-d4		106 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
Surrogate: Toluene-d8		102 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
Surrogate: Bromofluorobenzene		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	
Surrogate: n-Nonane		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	
Surrogate: 1,2-Dichloroethane-d4		106 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
Surrogate: Toluene-d8		102 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
Surrogate: Bromofluorobenzene		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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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

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

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organic Compounds by 8260</b>									
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		110 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
Surrogate: Toluene-d8		102 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
Surrogate: Bromofluorobenzene		92.6 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
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	
Surrogate: n-Nonane		104 %		50-200	1942044	10/17/19	10/18/19	EPA 8015D	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
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		110 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
Surrogate: Toluene-d8		102 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
Surrogate: Bromofluorobenzene		92.6 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	311	20.0	mg/kg	1	1942042	10/17/19	10/18/19	EPA 300.0/9056A	

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511 16th Street, Suite 700	Project Number:	17065-0017	Reported:
Denver CO, 80202	Project Manager:	Chad Snell	10/21/19 14:59

**Section 6**  
**P910087-06 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organic Compounds by 8260</b>									
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		110 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
Surrogate: Toluene-d8		102 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
Surrogate: Bromofluorobenzene		93.0 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
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	
Surrogate: n-Nonane		108 %		50-200	1942044	10/17/19	10/18/19	EPA 8015D	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
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		110 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
Surrogate: Toluene-d8		102 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
Surrogate: Bromofluorobenzene		93.0 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	133	20.0	mg/kg	1	1942042	10/17/19	10/18/19	EPA 300.0/9056A	

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

**Section 7**  
**P910087-07 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organic Compounds by 8260</b>									
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		104 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
Surrogate: Toluene-d8		103 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
Surrogate: Bromofluorobenzene		94.4 %		70-130	1942041	10/17/19	10/17/19	EPA 8260B	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
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	
Surrogate: n-Nonane		111 %		50-200	1942044	10/17/19	10/18/19	EPA 8015D	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
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		104 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
Surrogate: Toluene-d8		103 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
Surrogate: Bromofluorobenzene		94.4 %		70-130	1942041	10/17/19	10/17/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	604	20.0	mg/kg	1	1942042	10/17/19	10/18/19	EPA 300.0/9056A	

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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

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

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organic Compounds by 8260</b>									
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		94.6 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
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		111 %		50-200	1942044	10/17/19	10/18/19	EPA 8015D	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
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		94.6 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	91.8	20.0	mg/kg	1	1942042	10/17/19	10/18/19	EPA 300.0/9056A	

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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

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

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organic Compounds by 8260</b>									
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		94.3 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
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		115 %		50-200	1942044	10/17/19	10/18/19	EPA 8015D	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
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		94.3 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
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
<b>Volatile Organic Compounds by 8260</b>									
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	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
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	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
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	
<b>Anions by 300.0/9056A</b>									
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
<b>Volatile Organic Compounds by 8260</b>									
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	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
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	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
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	
<b>Anions by 300.0/9056A</b>									
Chloride	211	20.0	mg/kg	1	1942042	10/17/19	10/18/19	EPA 300.0/9056A	

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Denver CO, 80202	Project Manager:	Chad Snell	10/21/19 14:59

**Section 12**  
**P910087-12 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organic Compounds by 8260</b>									
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		106 %		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		95.9 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
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	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
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		106 %		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		95.9 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	82.9	20.0	mg/kg	1	1942042	10/17/19	10/18/19	EPA 300.0/9056A	

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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

**Section 13**  
**P910087-13 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**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		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	
Surrogate: n-Nonane		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	
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		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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Denver CO, 80202	Project Manager:	Chad Snell	10/21/19 14:59

**Section 15**  
**P910087-15 (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	10/18/19	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		102 %		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		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	
Surrogate: 1,2-Dichloroethane-d4		107 %		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		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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**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	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

**Section 17**  
**P910087-17 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organic Compounds by 8260</b>									
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		111 %		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		95.2 %		70-130	1942041	10/17/19	10/18/19	EPA 8260B	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
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		110 %		50-200	1942044	10/17/19	10/18/19	EPA 8015D	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
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		111 %		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		95.2 %		70-130	1942041	10/17/19	10/18/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
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	Project Name:	WLU 2309 24N	Reported: 10/21/19 14:59
511 16th Street, Suite 700	Project Number:	17065-0017	
Denver CO, 80202	Project Manager:	Chad Snell	

## 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

### 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
<b>Batch 1942044 - DRO Extraction EPA 3570</b>										
<b>Blank (1942044-BLK1)</b>				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			
<b>LCS (1942044-BS1)</b>				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			
<b>Matrix Spike (1942044-MS1)</b>				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			
<b>Matrix Spike Dup (1942044-MSD1)</b>				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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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

### 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

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

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

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

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

**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
<b>Batch 1942042 - Anion Extraction EPA 300.0/9056A</b>										
<b>Blank (1942042-BLK1)</b>				Prepared: 10/17/19 1 Analyzed: 10/17/19 2						
Chloride	ND	20.0	mg/kg							
<b>LCS (1942042-BS1)</b>				Prepared: 10/17/19 1 Analyzed: 10/17/19 2						
Chloride	256	20.0	mg/kg	250		102	90-110			
<b>Matrix Spike (1942042-MS1)</b>				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			
<b>Matrix Spike Dup (1942042-MSD1)</b>				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  
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

#### 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 1

<b>Client:</b> Enduro Resources <b>Project:</b> WLU 2309 24N <b>Project Manager:</b> Chad Small <b>Address:</b> 200 Energy Court <b>City, State, Zip:</b> Farmington NM 87401 <b>Phone:</b> (505) 444-0586 <b>Email:</b> CSmall@enduroresources.com					<b>Report Attention</b> <b>Report due by:</b> <b>Attention:</b> <b>Address:</b> <b>City, State, Zip:</b> <b>Phone:</b> <b>Email:</b>					<b>Lab Use Only</b> <b>Lab WO#</b> P 910087 <b>Job Number</b> 170615-0017 <b>Analysis and Method</b> ORO/ORO by 8015 GRO/ORO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 3000					<b>TAT</b> 1D 3D		<b>EPA Program</b> RCRA CWA SDWA			
										<b>State</b> NM CO UT AZ										
										TX OK										
										<b>Remarks</b>										
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	ORO/ORO by 8015	GRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 3000									
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										
<b>Additional Instructions:</b>																				
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)		Date		Time		Received by: (Signature)		Date		Time		Received on ice: <u>Y</u> / 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.																				


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## Project Information

## Chain of Custody

Page 2 of 2

<b>Client:</b> <u>Enduring Resources</u> <b>Project:</b> <u>WLU 2309 24N</u> <b>Project Manager:</b> <u>Chad Small</u> <b>Address:</b> <u>200 Energy Court</u> <b>City, State, Zip:</b> <u>Farmington NM 87401</u> <b>Phone:</b> <u>(505) 444-0586</u> <b>Email:</b> <u>C.Small@enduringresources.com</u>					<b>Report Attention</b> <b>Report due by:</b> _____ <b>Attention:</b> _____ <b>Address:</b> _____ <b>City, State, Zip:</b> _____ <b>Phone:</b> _____ <b>Email:</b> _____					<b>Lab Use Only</b> <b>Lab WO#</b> <u>P910087</u> <b>Job Number</b> <u>170605-0017</u> <b>Analysis and Method</b> DRD/ORD by 8015 GRD/ORD by 8015 BTEX by 8021 VOC by 8260 Metals 6030 Chloride 300.0					<b>TAT</b> 1D 3D		<b>EPA Program</b> RCRA CWA SDWA State NM CO UT AZ TX OK			
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRD/ORD by 8015	GRD/ORD by 8015	BTEX by 8021	VOC by 8260	Metals 6030	Chloride 300.0	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															
<b>Additional Instructions:</b> 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</u> 10-17-19 Samples requiring thermal preservation must be received on ice the day they are sampled or recapped 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	Received on ice: <u>Y</u> N		<b>Lab Use Only</b> 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.																				


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## Project Information

## Chain of Custody

Page 1 of 1

<b>Client:</b> <u>Enduring Resources</u> <b>Project:</b> <u>WLU 2309 24N</u> <b>Project Manager:</b> <u>Chad Snell</u> <b>Address:</b> <u>200 Energy Court</u> <b>City, State, Zip:</b> <u>Farmington, NM 87401</u> <b>Phone:</b> <u>(505) 444-0886</u> <b>Email:</b> <u>CSnell@enduringresources.com</u>				<b>Report Attention</b> <b>Report due by:</b> _____ <b>Attention:</b> _____ <b>Address:</b> _____ <b>City, State, Zip:</b> _____ <b>Phone:</b> _____ <b>Email:</b> _____				<b>Lab Use Only</b> <b>Lab WO#</b> <u>P 910087</u> <b>Job Number</b> <u>17-065-0017</u> <b>Analysis and Method</b>				<b>TAT</b> <b>1D</b> <input checked="" type="checkbox"/> <b>3D</b> <input type="checkbox"/>		<b>EPA Program</b> <b>RCRA</b> <input type="checkbox"/> <b>CWA</b> <input type="checkbox"/> <b>SDWA</b> <input type="checkbox"/>			
								<b>State</b> <b>NM</b> <input type="checkbox"/> <b>CO</b> <input type="checkbox"/> <b>UT</b> <input type="checkbox"/> <b>AZ</b> <input type="checkbox"/> <b>TX</b> <input type="checkbox"/> <b>OK</b> <input type="checkbox"/>									
<b>Time Sampled</b>	<b>Date Sampled</b>	<b>Matrix</b>	<b>No Containers</b>	<b>Sample ID</b>	<b>Lab Number</b>	<b>DRO/DRO by 8015</b>	<b>GRO/DRO by 8015</b>	<b>BTEX by 8021</b>	<b>VOC by 8260</b>	<b>Metals 6010</b>	<b>Chloride 300.0</b>	<b>Remarks</b>					
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: Chad Snell 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 5°C on subsequent days.

Relinquished by: (Signature) <u>CS</u>	Date <u>10-17-19</u>	Time <u>4:30pm</u>	Received by: (Signature) <u>Raine Lopez</u>	Date <u>10/17/19</u>	Time <u>10:30</u>	<b>Lab Use Only</b> 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.



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## Project Information

## Chain of Custody

Page 2 of 9

<b>Client:</b> <u>Enduring Resources</u> <b>Project:</b> <u>W20230924N</u> <b>Project Manager:</b> <u>Chad Small</u> <b>Address:</b> <u>200 Farmington Rd</u> <b>City, State, Zip:</b> <u>Farmington, NH 03401</u> <b>Phone:</b> <u>(603) 444-0586</u> <b>Email:</b> <u>C.Small@enduringresources.com</u>				<b>Report due by:</b> _____ <b>Attention:</b> _____ <b>Address:</b> _____ <b>City, State, Zip:</b> _____ <b>Phone:</b> _____ <b>Email:</b> _____				<b>Lab Use Only</b> <b>Lab WO#</b> <u>P910083</u> <b>Job Number</b> <u>17065-0017</u> <b>Analysis and Method</b>				<b>EPA Program</b> <b>TAT</b> <u>X</u> <b>ID</b> <u>3D</u> <b>RCRA</b> <u>CWA</u> <b>SDWA</b>			
<b>Time Sampled</b> <u>10:10</u> <b>Date Sampled</b> <u>10-17-19</u> <b>Matrix</b> <u>S</u> <b>No Containers</b> <u>1</u> <b>Sample ID</b> <u>Section 11</u>				<b>Lab Number</b> <u>11</u> <b>DRO/ORO by 8015</b> <u>X</u> <b>GRO/DRO by 8015</b> <u>X</u> <b>BTEX by 8021</b> <u>X</u> <b>VOC by 8260</b> <u>X</u> <b>Metals 6010</b> <u>X</u> <b>Chloride 300.0</b> <u>X</u>				<b>State</b> <b>NM</b> <u>CO</u> <u>UT</u> <u>AZ</u> <b>TX</b> <u>OK</u>							
<b>10:35</b> <b>10:40</b> <b>10:45</b> <b>10:50</b> <b>10:55</b> <b>11:00</b>				<b>Section 12</b> <b>Section 13</b> <b>Section 14</b> <b>Section 15</b> <b>Section 16</b> <b>Section 17</b>				<b>12</b> <b>13</b> <b>14</b> <b>15</b> <b>16</b> <b>17</b>							
<b>Additional Instructions:</b> 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</u> 10-17-19 Relinquished by: (Signature) <u>[Signature]</u> Date <u>10-17-19</u> Time <u>4:30 PM</u> Received by: (Signature) <u>Ramona Rogers</u> Date <u>10-17-19</u> Time <u>16:30</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, SF - Sludge, A - Aqueous, O - Other _____ Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.				<b>Container Type:</b> G - glass, P - poly/plastic, AG - amber glass, V - VOA <b>Received on ice:</b> <u>(Y) N</u> <b>Lab Use Only</b> <b>AVG Temp °C</b> <u>4</u> <b>per client 10/17/19 RL</b> <b>visite in code</b>											


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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	Project Name:	WLU 2309 24N	
511 16th Street, Suite 700	Project Number:	17065-0017	<b>Reported:</b>
Denver CO, 80202	Project Manager:	Chad Snell	10/28/19 14:09

### 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
<b>Volatile Organics by EPA 8021</b>									
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	
Surrogate: 4-Bromochlorobenzene-PID		106 %		50-150	1943032	10/24/19	10/24/19	EPA 8021B	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
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	
Surrogate: n-Nonane		119 %		50-200	1943035	10/24/19	10/25/19	EPA 8015D	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.2 %		50-150	1943032	10/24/19	10/24/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	35.6	20.0	mg/kg	1	1943034	10/24/19	10/24/19	EPA 300.0/9056A	

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**Section 6**  
**P910155-02 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
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	
Surrogate: 4-Bromochlorobenzene-PID		105 %		50-150	1943032	10/24/19	10/24/19	EPA 8021B	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
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	
Surrogate: n-Nonane		119 %		50-200	1943035	10/24/19	10/25/19	EPA 8015D	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.9 %		50-150	1943032	10/24/19	10/24/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	38.0	20.0	mg/kg	1	1943034	10/24/19	10/24/19	EPA 300.0/9056A	

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

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

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
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	
Surrogate: 4-Bromochlorobenzene-PID		105 %		50-150	1943032	10/24/19	10/24/19	EPA 8021B	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
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	
Surrogate: n-Nonane		122 %		50-200	1943035	10/24/19	10/25/19	EPA 8015D	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943032	10/24/19	10/24/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.5 %		50-150	1943032	10/24/19	10/24/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	48.1	20.0	mg/kg	1	1943034	10/24/19	10/24/19	EPA 300.0/9056A	

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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	10/28/19 14:09

## 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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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

### 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
<b>Batch 1943035 - DRO Extraction EPA 3570</b>										
<b>Blank (1943035-BLK1)</b>				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			
<b>LCS (1943035-BS1)</b>				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			
<b>Matrix Spike (1943035-MS1)</b>				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			
<b>Matrix Spike Dup (1943035-MSD1)</b>				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	Project Name:	WLU 2309 24N	
511 16th Street, Suite 700	Project Number:	17065-0017	<b>Reported:</b>
Denver CO, 80202	Project Manager:	Chad Snell	10/28/19 14:09

## 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
<b>Batch 1943032 - Purge and Trap EPA 5030A</b>										
<b>Blank (1943032-BLK1)</b>				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	7.63		"	8.00		95.6	50-150			
<b>LCS (1943032-BS2)</b>				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			
<b>Matrix Spike (1943032-MS2)</b>				<b>Source: P910153-01</b>		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			
<b>Matrix Spike Dup (1943032-MSD2)</b>				<b>Source: P910153-01</b>		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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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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## 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
<b>Batch 1943034 - Anion Extraction EPA 300.0/9056A</b>										
<b>Blank (1943034-BLK1)</b>				Prepared & Analyzed: 10/24/19 1						
Chloride	ND	20.0	mg/kg							
<b>LCS (1943034-BS1)</b>				Prepared & Analyzed: 10/24/19 1						
Chloride	255	20.0	mg/kg	250		102	90-110			
<b>Matrix Spike (1943034-MS1)</b>				<b>Source: P910153-01</b>		Prepared & Analyzed: 10/24/19 1				
Chloride	275	20.0	mg/kg	250	ND	110	80-120			
<b>Matrix Spike Dup (1943034-MSD1)</b>				<b>Source: P910153-01</b>		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	Project Name:	WLU 2309 24N	
511 16th Street, Suite 700	Project Number:	17065-0017	<b>Reported:</b>
Denver CO, 80202	Project Manager:	Chad Snell	10/28/19 14:09

#### 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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