

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	
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) NCS1910929492
Contact mailing address: 200 Energy Court	Farmington, New Mexico 87401

Location of Release Source

Latitude 36. 112545 Longitude -107. 546153
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: S Escavada Unit 352H	Site Type: Wellsite
Date Release Discovered: 4/4/2019	API# (if applicable) 30-043-21323

Unit Letter	Section	Township	Range	County
F	26	22N	7W	Sandoval

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

NMOCD
JUN 27 2019
DISTRICT III

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls): 12 BBLS	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls):	Volume Recovered (bbls):
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input 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 4/4/2019, a release was discovered on the S Escavada Unit 352H well site. Approximately 12 bbls of oil and water overflowed from an on-site flowback tank during well cleanout activities. The release was stopped and impacted materials were removed. Additional cleanup has been completed and closure sampling was done 5/30/2019.

36

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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?	180 ___ (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 ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

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Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

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.

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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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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

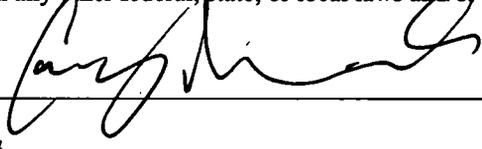
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public 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: 6-24-19
 email: csnell@enduringresources.com Telephone: (505)444-0586

OCD Only

Received by: OCD Date: 6/27/19

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: 7/10/19
 Printed Name: Casey Title: Environmental Spec.

S. Escavada Unit 352H Remediation Narrative

4/4/2019

A release was discovered on the S Escavada Unit 352H well site. Approximately 12 bbls of oil and water overflowed from an on-site flowback tank during well cleanout activities. The release was stopped and impacted materials were removed.

4/11/2019

Flowback tanks were moved and additional clean-up activities took place scraping impacted soil with a back hoe. Approximately 36 yards of soil was scrapped from the pad. This completed clean-up activities.

4/15/2019

Flowback equipment was moved back onto site postponing confirmation sampling until equipment was moved.

5/28/2019

All equipment was moved and email notification was sent to the NMOCD and BLM scheduling closure sampling for Thursday May 30th 2019 after completing sampling activities at the NE Chaco Com 197H. See attached "*Email Notification*".

5/30/2019

Enduring personnel was onsite to perform confirmation sampling along with the BLM to witness. Five composite samples were taken and sent in for analysis of BTEX, GRO/DRO/ORO, and Chlorides. The site was ranked by ground water being over 100ft (Benzene: 10 ppm, BTEX: 50 ppm, DRO/GRO: 1000 ppm, TPH: 2500 ppm, and Chlorides 20,000 ppm) determined by a Cathodic that was drilled at the North Escavada 329H approximately 2.7 miles away. The Cathodic at the NEU329H was drilled to a depth of 340ft and no water was found. Elevation at the NEU329H is approximately 6,952ft, and elevation at the SEU 352H is approximately 6,795ft which ground water would be approximately 180ft from impacted surface area at the SEU 352H. See attached "*Ground Bed Drilling log*".

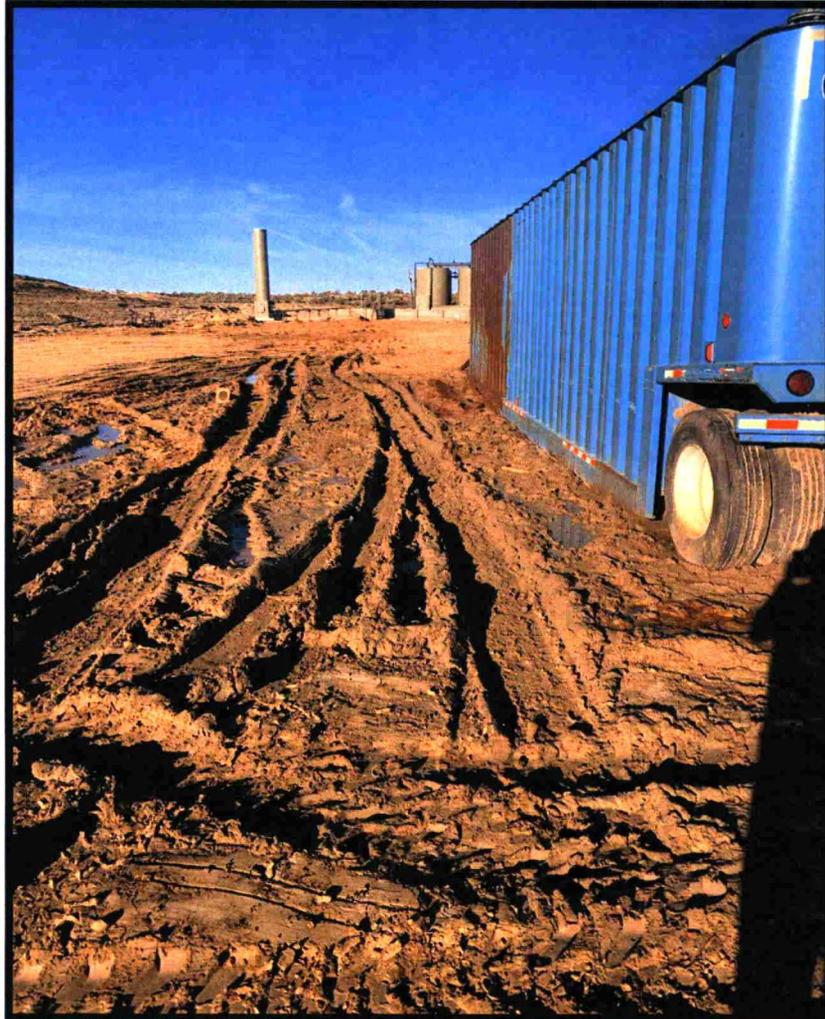
6/3/2019

Analytical report was received and returned results are below closure criteria for this site (Benzene: 10 ppm, BTEX: 50 ppm, DRO/GRO: 1000 ppm, TPH: 2500 ppm, and Chlorides 20,000 ppm). No further action is needed.



Enduring Resources, LLC
Photo Page
SEU 352H
30-043-21323

Photos of Release



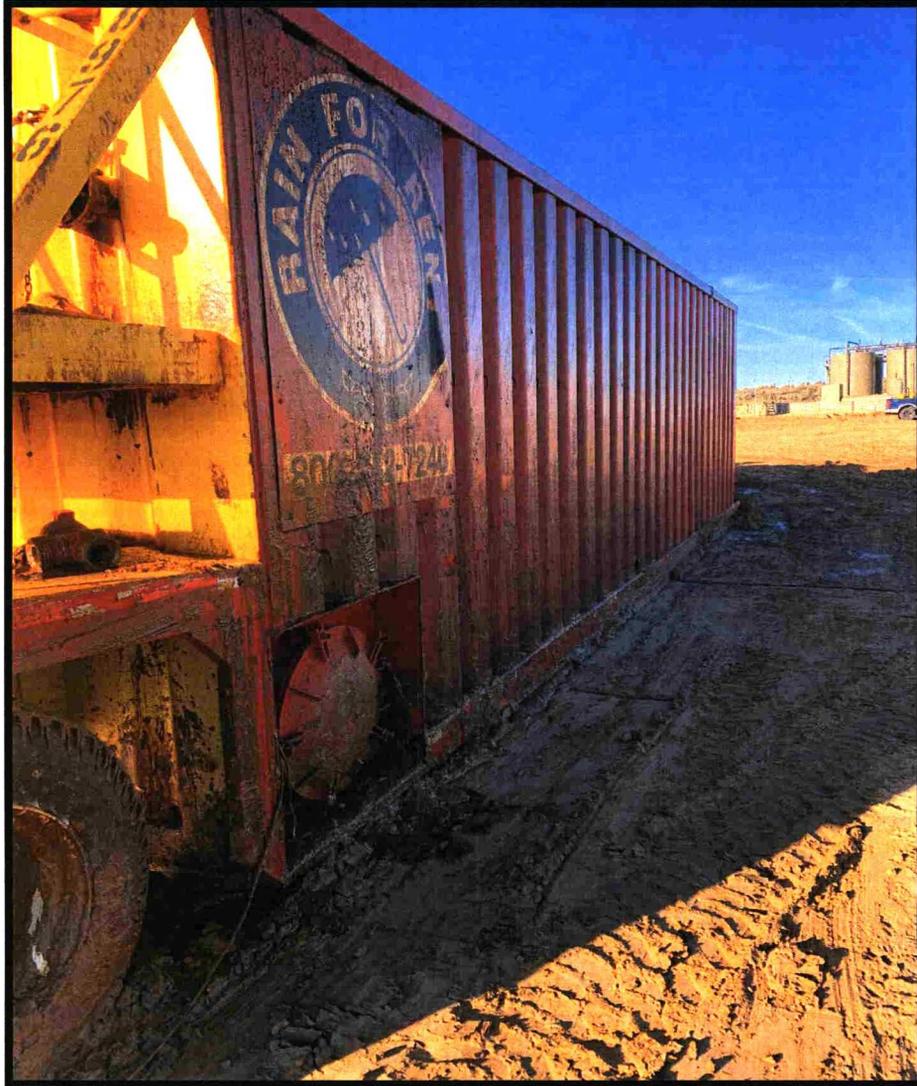


Enduring Resources, LLC
Photo Page
SEU 352H
30-043-21323





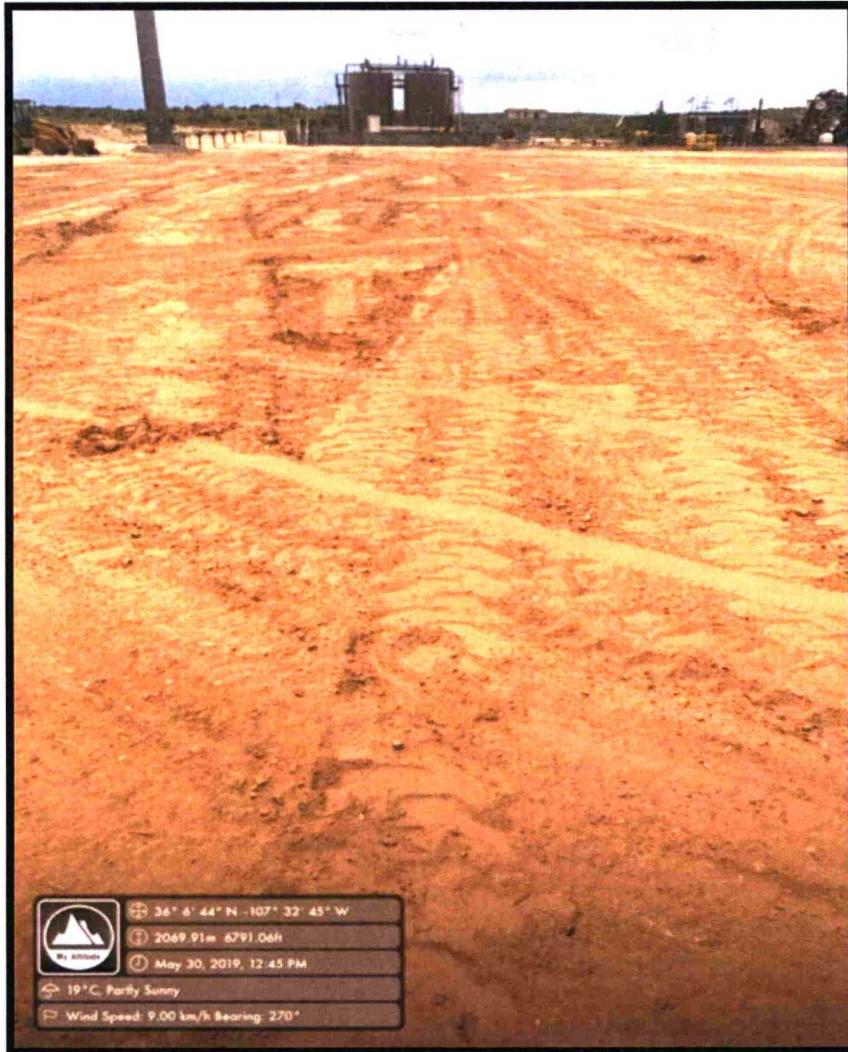
Enduring Resources, LLC
Photo Page
SEU 352H
30-043-21323





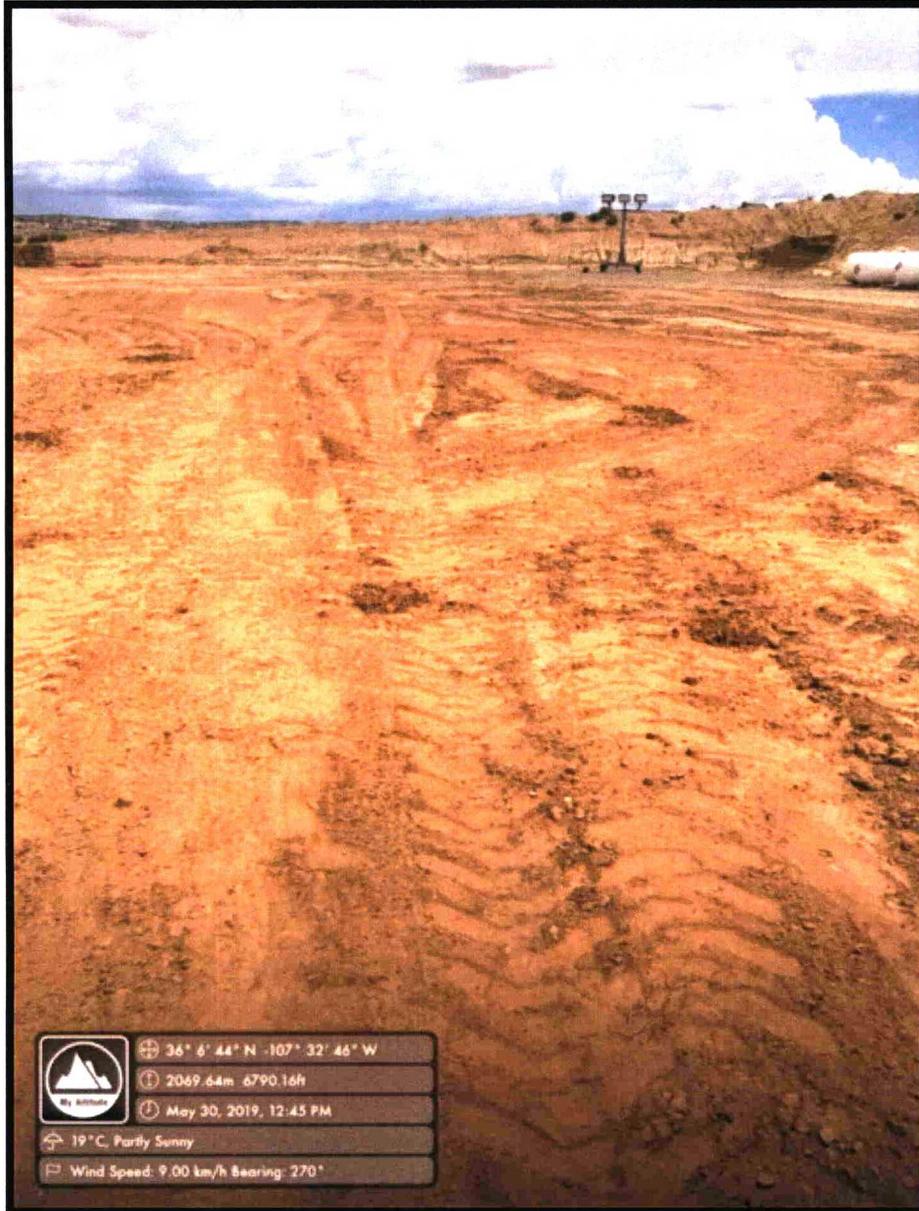
Enduring Resources, LLC
Photo Page
SEU 352H
30-043-21323

Photos: After Clean-up and Sampling Event





Enduring Resources, LLC
Photo Page
SEU 352H
30-043-21323



Chad Snell

From: Chad Snell
Sent: Tuesday, May 28, 2019 8:32 AM
To: 'Smith, Cory, EMNRD'
Cc: James McDaniel; 'adeloye@blm.gov'
Subject: Confirmation Sampling

Cory,

Enduring will be performing sampling activities on Thursday May 30th 2019 at the following locations.

NE Chaco Com 197H (API: 30-039-31278, Sec: 8, Twn: 23N, RGE: 6W)- Starting at 9:00am and once we are finished with sampling activities at this location we will than head to the SEU 352H.

South Escavada Unit 352H (API: 30-043-21323, Sec: 26, Twn: 22N, RGE: 7W)- Sampling activities will began after the NE Chaco Com 197H.

Please let us know if you have any questions.

Thank you.

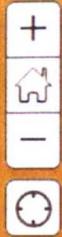
Chad Snell
HSE Tech
Enduring Resources
(505) 444-0586.

SEU 352H Sample Results

Sample Name	Description	Date	Time	DRO	GRO	DRO+ GRO	ORO	Total TPH	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	Chlorides	Square Footage
STANDARD		NA	NA	NA	NA	1000	NA	2500	10	NA	NA	NA	50	20,000	200 sq. ft
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Section A	Composite	5/30/2019	11:40 AM	37	<20	37	<50	37.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.1	54.4	198
Section B	Composite	5/30/2019	11:50 AM	77.6	<20	77.6	<50	77.6	<0.0250	<0.0250	<0.0250	<0.0250	<0.1	73.4	198
Section C	Composite	3/22/2019	12:00 PM	62.9	<20	62.9	50.4	113.3	<0.0250	<0.0250	<0.0250	<0.0250	<0.1	63.8	198
Section D	Composite	3/22/2019	12:10 PM	47	<20	47	<50	47	<0.0250	<0.0250	<0.0250	<0.0250	<0.1	66.1	198
Section E	Composite	3/22/2019	12:20 PM	62.4	<20	62.4	<50	62.4	<0.0250	<0.0250	<0.0250	<0.0250	<0.1	94	198

CLOSURE SAMPLES

Sample Points on 5/30/2019



22N 7W 26

353H Drilled

"Section C"
33'L x 6'W

354H

S ESCAVADA UNIT #354H

S ESCAVADA UNIT #352H

S ESCAVADA UNIT #353H

SEU 352

"Section A"
33'L x 6'W

352H Drilled

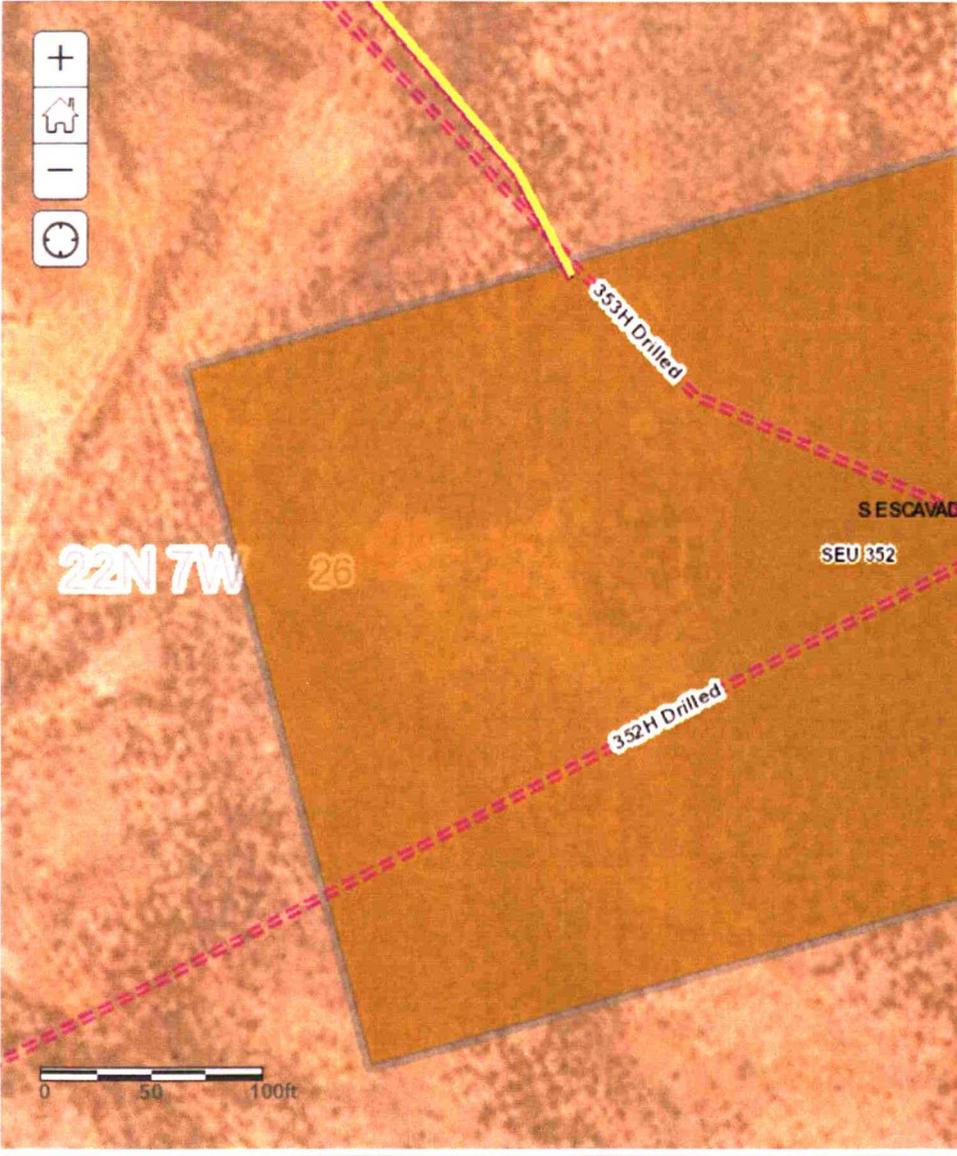
"Section E"
33'L x 6'W



"Section B"
33'L x 6'W

"Section D"
33'L x 6'W





Find area, length, or location

Feet

Measurement Result

316.3 Feet



Ground Bed Drilling Log

Company: WPX Energy

Well: North Escanaba UT#329H

Date: 10-23-2016

Location: SINDT329E10

State: New Mexico

Rig: Shaw #1

Ground Bed Depth: 340'

Water Depth: 0'

Diameter: 10"

Post: 28 gal.

Latitude: 36.414522

Longitude: -101.567574

DEPTH _____ FORMATION _____ OTHER _____

<u>0-60</u>	Sand Stone, Shale, Sand w/ Shale w/ Sand	<u>PVC</u>
<u>60-100</u>	Sand Stone, Shale, <u>Sand w/ Shale w/ Sand</u>	
<u>100-140</u>	Sand Stone, Shale, Sand w/ <u>Shale w/ Sand</u>	
<u>140-190</u>	Sand Stone, Shale, <u>Sand w/ Shale w/ Sand</u>	
<u>190-250</u>	Sand Stone, Shale, Sand w/ Shale w/ Sand	
<u>250-300</u>	Sand Stone, Shale, Sand w/ <u>Shale w/ Sand</u>	
<u>300-340</u>	Sand Stone, Shale, Sand w/ Shale w/ Sand	
_____	Sand Stone, Shale, Sand w/ Shale w/ Sand	
_____	Sand Stone, Shale, Sand w/ Shale w/ Sand	
_____	Sand Stone, Shale, Sand w/ Shale w/ Sand	

GROUNDWATER DEPTH LOG

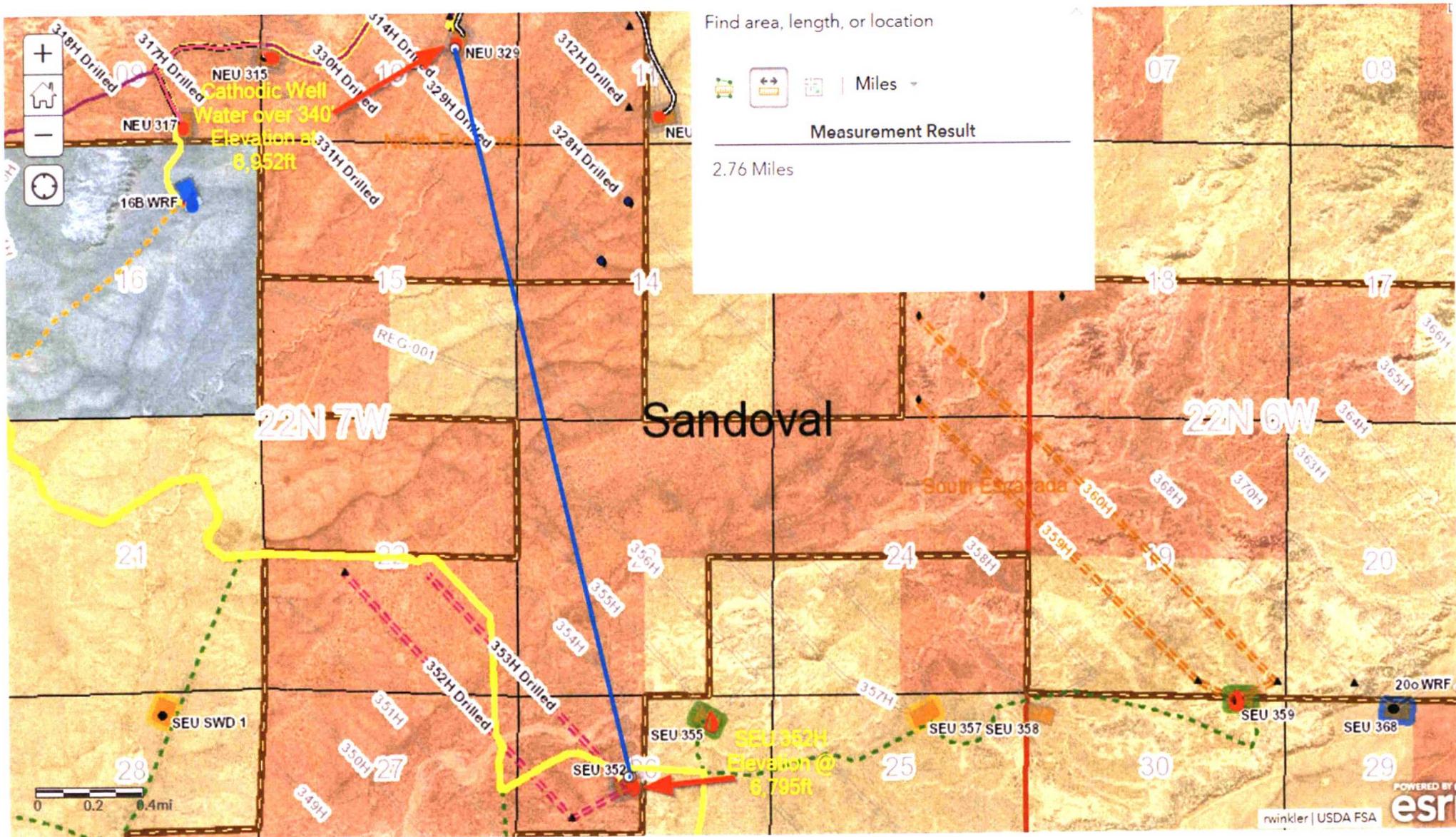
Company: WPX Energy

Location: North Escanaba UT#329H
 Well/Log: 36.144522/-101.567574
 Elevations: _____

Probe type: Freefall Stand- Push
 Casing material: Wireline

Required Test Depths: 50', 55', & 105' unless otherwise requested

Date	Time	Depth	Comments
<u>10/23/16</u>	<u>10 am</u>	<u>30'</u>	<u>drilled 30'</u>
	<u>11 am</u>	<u>30'</u>	<u>tested no water</u>
	<u>11:30</u>	<u>55'</u>	<u>drilled to 55'</u>
	<u>12:30</u>	<u>55'</u>	<u>tested no water</u>
	<u>1:45</u>	<u>105'</u>	<u>drilled to 105'</u>
	<u>2:45</u>	<u>105'</u>	<u>tested no water set 60' casing</u>
<u>10/23/16</u>	<u>8:30 am</u>	<u>105'</u>	<u>no water</u>
	<u>11:45</u>	<u>340'</u>	<u>finished grade bed</u>



Find area, length, or location

Miles

Measurement Result

2.76 Miles

Cathodic Well
Water over 340'
Elevation at
8,952ft

Elevation @
8,795ft

22N 7W

Sandoval

22N 6W

South Esparada

POWERED BY
esri

winkler | USDA FSA

0 0.2 0.4mi



Basemap Gallery



Dark Gray Canvas



Imagery



Imagery with Labels



Light Gray Canvas



National Geographic



Oceans



OpenStreetMap



Streets



Terrain with Labels



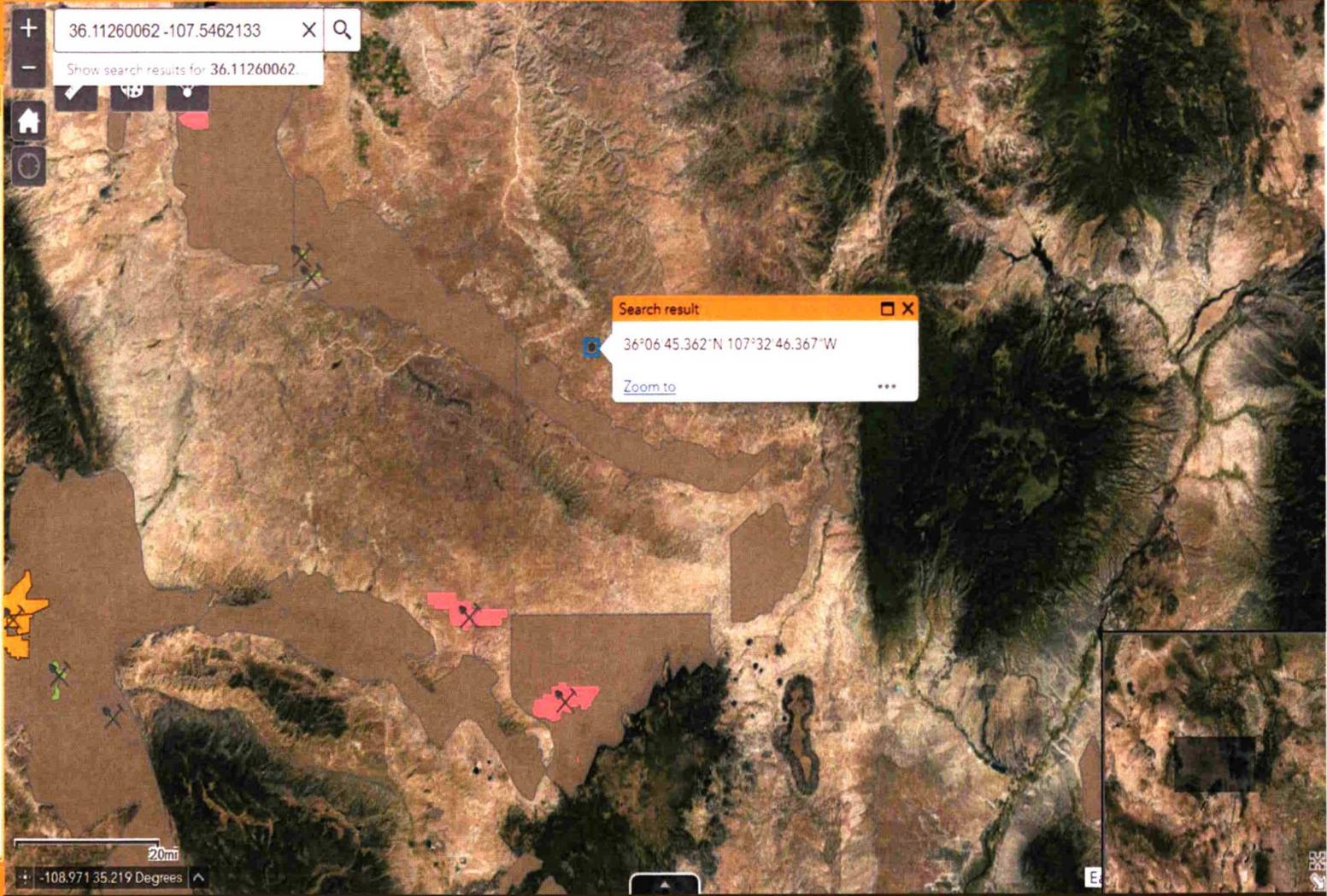
Topographic



USA Topo Maps



USGS National Map



36.11260062 -107.5462133

Show search results for 36.11260062...

Search result
36°06'45.362"N 107°32'46.367"W
[Zoom to](#)

20mi
-108.97135219 Degrees

S ESCAVADA UNIT #352H X

Show search results for S ESCA...

Measurement

Feet

Measurement Result

539.7 Feet

Clear

Press CTRL to enable snapping

40m

200ft -107.54757 36.11332 Degrees

30-043-21320
30-043-21323 30-043-21319

SWNE (8)

NWNE (8)



National Wetlands Inventory

surface waters and wetlands

ABOUT

GET DATA

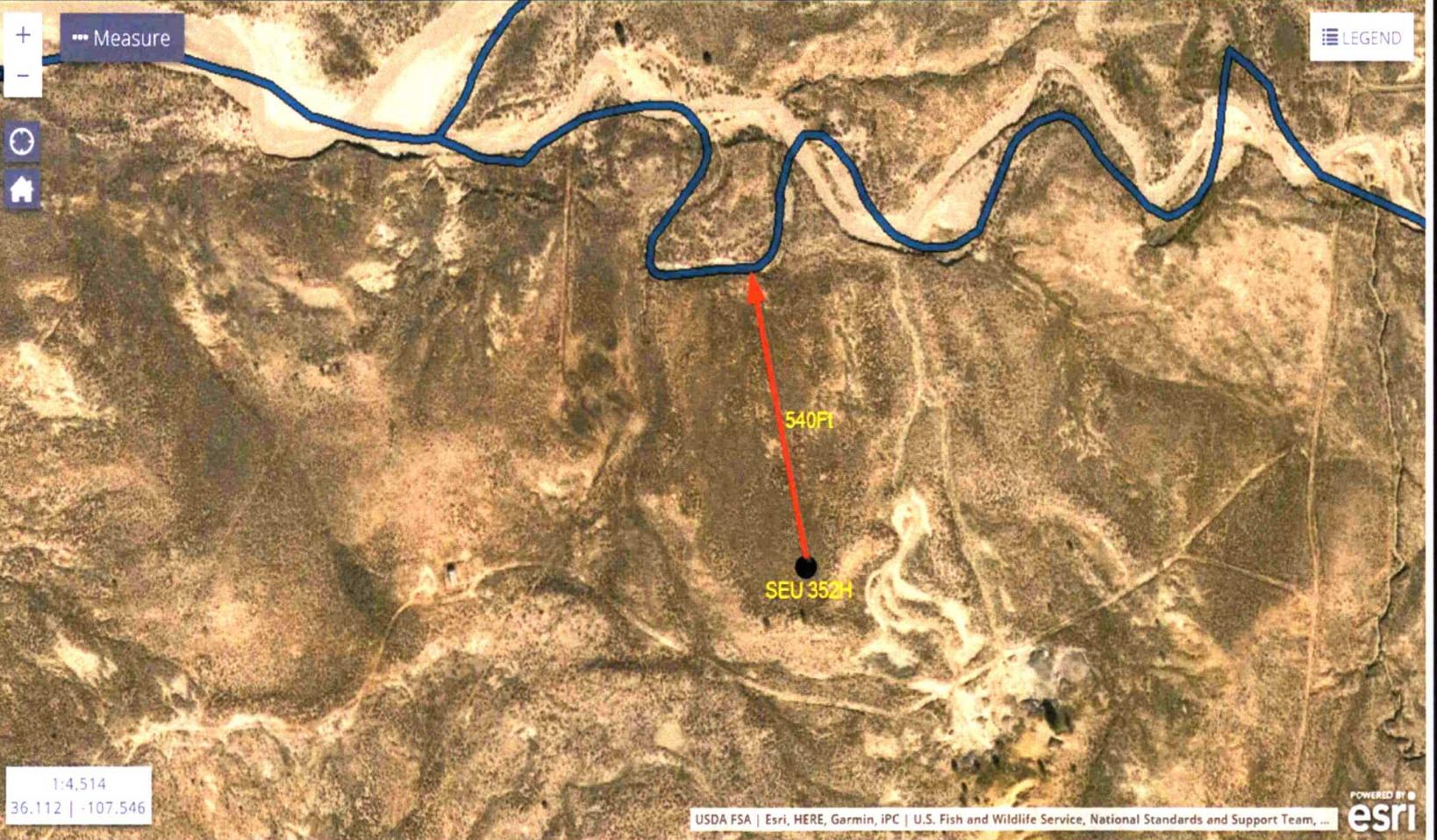
PRINT

FIND LOCATION

BASEMAPS >

MAP LAYERS >

- Wetlands 1 ?
- Riparian 1 ?
- Riparian Mapping Areas 1 ?
- Data Source 1 ?
 - Source Type
 - Image Scale
 - Image Year
- Areas of Interest ?
- FWS Managed Lands 1 ?
- Historic Wetland Data 1 ?



1:4,514
36.112 | -107.546

USDA FSA | Esri, HERE, Garmin, IPC | U.S. Fish and Wildlife Service, National Standards and Support Team, ...



National Flood Hazard Layer FIRMette



36°6'59.90"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, AO, AH, 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 Zone J |
| | | Future Conditions 1% Annual Chance Flood Hazard Zone X |
| | | Area with Reduced Flood Risk due to Levee. See Notes. Zone X |
| | | Area with Flood Risk due to Levee Zone D |
| OTHER AREAS | | NO SCREEN Area of Minimal Flood Hazard Zone X |
| | | Effective LOMRs |
| GENERAL STRUCTURES | | Area of Undetermined Flood Hazard Zone |
| | | Channel, Culvert, or Storm Sewer |
| | | Levee, Dike, or Floodwall |
| OTHER FEATURES | | Cross Sections with 1% Annual Chance Water Surface Elevation |
| | | 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 6/14/2019 at 12:33:03 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

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

0 250 500 1,000 1,500 2,000 Feet 1:6,000

36°6'30.83"N

107°32'27.64"W

Analytical Report

Report Summary

Client: Enduring Resources, LLC

Samples Received: 5/30/2019

Job Number: 17065-0017

Work Order: P905093

Project Name/Location: SEU 352H

Report Reviewed By:



Date: 6/3/19

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.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.
Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.



Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: SEU 352H Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 06/03/19 16:32
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Section A	P905093-01A	Soil	05/30/19	05/30/19	Glass Jar, 4 oz.
Section B	P905093-02A	Soil	05/30/19	05/30/19	Glass Jar, 4 oz.
Section C	P905093-03A	Soil	05/30/19	05/30/19	Glass Jar, 4 oz.
Section D	P905093-04A	Soil	05/30/19	05/30/19	Glass Jar, 4 oz.
Section E	P905093-05A	Soil	05/30/19	05/30/19	Glass Jar, 4 oz.

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**Section A
P905093-01 (Solid)**

Analyte	Reporting							Method	Notes
	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed		

Volatiles Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1922028	05/30/19	06/01/19	EPA 8021B
Toluene	ND	0.0250	mg/kg	1	1922028	05/30/19	06/01/19	EPA 8021B
Ethylbenzene	ND	0.0250	mg/kg	1	1922028	05/30/19	06/01/19	EPA 8021B
p,m-Xylene	ND	0.0500	mg/kg	1	1922028	05/30/19	06/01/19	EPA 8021B
o-Xylene	ND	0.0250	mg/kg	1	1922028	05/30/19	06/01/19	EPA 8021B
Total Xylenes	ND	0.0250	mg/kg	1	1922028	05/30/19	06/01/19	EPA 8021B
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %		50-150	1922028	05/30/19	06/01/19	EPA 8021B

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	36.7	25.0	mg/kg	1	1922030	05/30/19	05/31/19	EPA 8015D
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1922030	05/30/19	05/31/19	EPA 8015D
<i>Surrogate: n-Nonane</i>		96.8 %		50-200	1922030	05/30/19	05/31/19	EPA 8015D

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1922028	05/30/19	06/01/19	EPA 8015D
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		99.4 %		50-150	1922028	05/30/19	06/01/19	EPA 8015D

Anions by 300.0/9056A

Chloride	54.4	20.0	mg/kg	1	1922031	05/31/19	05/31/19	EPA 300.0/9056A
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Section B
P905093-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatiles Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1922028	05/30/19	05/31/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1922028	05/30/19	05/31/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1922028	05/30/19	05/31/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1922028	05/30/19	05/31/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1922028	05/30/19	05/31/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1922028	05/30/19	05/31/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %		50-150	1922028	05/30/19	05/31/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	77.6	25.0	mg/kg	1	1922030	05/30/19	05/31/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1922030	05/30/19	05/31/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		103 %		50-200	1922030	05/30/19	05/31/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1922028	05/30/19	05/31/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		100 %		50-150	1922028	05/30/19	05/31/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	73.4	20.0	mg/kg	1	1922031	05/31/19	05/31/19	EPA 300.0/9056A	

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Section C
P905093-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1922028	05/30/19	05/31/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1922028	05/30/19	05/31/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1922028	05/30/19	05/31/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1922028	05/30/19	05/31/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1922028	05/30/19	05/31/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1922028	05/30/19	05/31/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %		50-150	1922028	05/30/19	05/31/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	62.9	25.0	mg/kg	1	1922030	05/30/19	05/31/19	EPA 8015D	
Oil Range Organics (C28-C40)	50.4	50.0	mg/kg	1	1922030	05/30/19	05/31/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		102 %		50-200	1922030	05/30/19	05/31/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1922028	05/30/19	05/31/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		100 %		50-150	1922028	05/30/19	05/31/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	63.8	20.0	mg/kg	1	1922031	05/31/19	05/31/19	EPA 300.0/9056A	

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Section D
P905093-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatiles Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1922028	05/30/19	05/31/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1922028	05/30/19	05/31/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1922028	05/30/19	05/31/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1922028	05/30/19	05/31/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1922028	05/30/19	05/31/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1922028	05/30/19	05/31/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %		50-150	1922028	05/30/19	05/31/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	47.0	25.0	mg/kg	1	1922030	05/30/19	05/31/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1922030	05/30/19	05/31/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		102 %		50-200	1922030	05/30/19	05/31/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1922028	05/30/19	05/31/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.7 %		50-150	1922028	05/30/19	05/31/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	66.1	20.0	mg/kg	1	1922031	05/31/19	05/31/19	EPA 300.0/9056A	
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Section E
P905093-05 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1922028	05/30/19	05/31/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1922028	05/30/19	05/31/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1922028	05/30/19	05/31/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1922028	05/30/19	05/31/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1922028	05/30/19	05/31/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1922028	05/30/19	05/31/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %		50-150	1922028	05/30/19	05/31/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	62.4	25.0	mg/kg	1	1922030	05/30/19	05/31/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1922030	05/30/19	05/31/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		99.5 %		50-200	1922030	05/30/19	05/31/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1922028	05/30/19	05/31/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		99.7 %		50-150	1922028	05/30/19	05/31/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	94.0	20.0	mg/kg	1	1922031	05/31/19	05/31/19	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 1922028 - Purge and Trap EPA 5030A

Blank (1922028-BLK1)

Prepared: 05/30/19 | Analyzed: 05/31/19 |

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	8.00		"	8.00		100	50-150			

LCS (1922028-BS1)

Prepared: 05/30/19 | Analyzed: 05/31/19 |

Benzene	4.52	0.0250	mg/kg	5.00		90.5	70-130			
Toluene	4.91	0.0250	"	5.00		98.1	70-130			
Ethylbenzene	4.89	0.0250	"	5.00		97.7	70-130			
p,m-Xylene	10.0	0.0500	"	10.0		100	70-130			
o-Xylene	4.89	0.0250	"	5.00		97.7	70-130			
Total Xylenes	14.9	0.0250	"	15.0		99.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.14		"	8.00		102	50-150			

Matrix Spike (1922028-MS1)

Source: P905093-01

Prepared: 05/30/19 | Analyzed: 06/01/19 |

Benzene	4.44	0.0250	mg/kg	5.00	ND	88.8	54.3-133			
Toluene	4.83	0.0250	"	5.00	ND	96.5	61.4-130			
Ethylbenzene	4.81	0.0250	"	5.00	ND	96.2	61.4-133			
p,m-Xylene	9.89	0.0500	"	10.0	ND	98.9	63.3-131			
o-Xylene	4.81	0.0250	"	5.00	ND	96.2	63.3-131			
Total Xylenes	14.7	0.0250	"	15.0	ND	98.0	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8.15		"	8.00		102	50-150			

Matrix Spike Dup (1922028-MSD1)

Source: P905093-01

Prepared: 05/30/19 | Analyzed: 06/01/19 |

Benzene	4.47	0.0250	mg/kg	5.00	ND	89.3	54.3-133	0.634	20	
Toluene	4.85	0.0250	"	5.00	ND	97.1	61.4-130	0.568	20	
Ethylbenzene	4.84	0.0250	"	5.00	ND	96.9	61.4-133	0.635	20	
p,m-Xylene	9.95	0.0500	"	10.0	ND	99.5	63.3-131	0.586	20	
o-Xylene	4.84	0.0250	"	5.00	ND	96.8	63.3-131	0.569	20	
Total Xylenes	14.8	0.0250	"	15.0	ND	98.6	63.3-131	0.580	20	
Surrogate: 4-Bromochlorobenzene-PID	8.13		"	8.00		102	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
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Batch 1922030 - DRO Extraction EPA 3570

Blank (1922030-BLK1)

Prepared: 05/30/19 | Analyzed: 05/31/19 |

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	33.5		"	50.0		107	50-200			

LCS (1922030-BS1)

Prepared: 05/30/19 | Analyzed: 05/31/19 |

Diesel Range Organics (C10-C28)	477	25.0	mg/kg	500		95.3	38-132			
Surrogate: n-Nonane	51.3		"	50.0		103	50-200			

Matrix Spike (1922030-MS1)

Source: P905093-01

Prepared: 05/30/19 | Analyzed: 05/31/19 |

Diesel Range Organics (C10-C28)	470	25.0	mg/kg	500	36.7	86.7	38-132			
Surrogate: n-Nonane	44.7		"	50.0		89.3	50-200			

Matrix Spike Dup (1922030-MSD1)

Source: P905093-01

Prepared: 05/30/19 | Analyzed: 05/31/19 |

Diesel Range Organics (C10-C28)	500	25.0	mg/kg	500	36.7	92.6	38-132	6.15	20	
Surrogate: n-Nonane	49.0		"	50.0		97.9	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 1922028 - Purge and Trap EPA 5030A

Blank (1922028-BLK1)		Prepared: 05/30/19 Analyzed: 05/31/19 1								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.17		"	8.00		102	50-150			
LCS (1922028-BS2)		Prepared: 05/30/19 Analyzed: 05/31/19 2								
Gasoline Range Organics (C6-C10)	52.3	20.0	mg/kg	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.06		"	8.00		101	50-150			
Matrix Spike (1922028-MS2)		Source: P905093-01		Prepared: 05/30/19 Analyzed: 06/01/19 0						
Gasoline Range Organics (C6-C10)	52.5	20.0	mg/kg	50.0	ND	105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.04		"	8.00		100	50-150			
Matrix Spike Dup (1922028-MSD2)		Source: P905093-01		Prepared: 05/30/19 Analyzed: 06/01/19 0						
Gasoline Range Organics (C6-C10)	52.0	20.0	mg/kg	50.0	ND	104	70-130	0.831	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.09		"	8.00		101	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
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Batch 1922031 - Anion Extraction EPA 300.0/9056A

Blank (1922031-BLK1)				Prepared: 05/31/19 0 Analyzed: 05/31/19 1						
Chloride	ND	20.0	mg/kg							
LCS (1922031-BS1)				Prepared: 05/31/19 0 Analyzed: 05/31/19 1						
Chloride	253	20.0	mg/kg	250		101	90-110			
Matrix Spike (1922031-MS1)				Prepared: 05/31/19 0 Analyzed: 05/31/19 1						
Source: P905093-01										
Chloride	322	20.0	mg/kg	250	54.4	107	80-120			
Matrix Spike Dup (1922031-MSD1)				Prepared: 05/31/19 0 Analyzed: 05/31/19 1						
Source: P905093-01										
Chloride	321	20.0	mg/kg	250	54.4	107	80-120	0.320	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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Notes and Definitions

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- ** Methods marked with ** are non-accredited methods.

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Project Information

Chain of Custody

Client: Enduring Resources
 Project: SEU 352H
 Project Manager: Ched Snell
 Address: 700 Energy Court
 City, State, Zip: Farmington, NM
 Phone: (505) 444-0586
 Email: CSnell@enduringresources.com

Report Attention
 Report due by: 6/3/19
 Attention:
 Address:
 City, State, Zip
 Phone:
 Email: JMcDaniel@enduringresources.com

Lab Use Only
 Lab WO# P905093 Job Number 17065 017
 TAT
 1D 3D RCRA CWA SDWA

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	Analysis and Method							State				Remarks		
						DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1	NM	CO	UT	AZ			
11:40	5-30-19	S	1	Section A	1	X	X	X			X								
11:50			1	Section B	2	Y	X	X			X								
12:00			1	Section C	3	X	X	X			X								
12:10			1	Section D	4	X	X	X			X								
12:20			1	Section E	5	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: Ched Snell 5-30-19

Relinquished by: (Signature) [Signature] Date 5-30-19 Time 3:40pm
 Received by: (Signature) Rain Lopez Date 5-30-19 Time 3:40pm
 Received on ice: (Y) / N
 T1 4 T2 4 T3 4
 AVG Temp °C 4

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

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



5796 US Highway 64, Farmington, NM 87401
 Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301

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