

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): NCS1907753213
Contact mailing address: 200 Energy Court	Farmington, New Mexico 87401

Location of Release Source

Latitude 36. 2422949 Longitude -107. 500387
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: NE Chaco 197H	Site Type: Wellsite
Date Release Discovered: 3/8/2019	API# (if applicable) 30-039-31278

Unit Letter	Section	Township	Range	County
E	8	23N	6W	Rio Arriba

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

NMOCD
JUN 14 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) 6bbls	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 3/8/2019 Enduring had a spill of produced oil/water under the liner. The release was calculated to be 6BBLS using a calculation tool. The dump line to the production tank failed which caused the release. Clean up activities are completed.

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Oil Conservation Division

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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:
<p>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.</p> <p>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.</p> <p>Printed Name: _____ Title: _____</p> <p>Signature: _____ Date: _____</p> <p>email: _____ Telephone: _____</p>
<p><u>OCD Only</u></p> <p>Received by: _____ Date: _____</p>

State of New Mexico
Oil Conservation Division

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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?	<u>155</u> (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 checked="" type="checkbox"/> Yes <input 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.

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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.

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: _____

State of New Mexico
Oil Conservation Division

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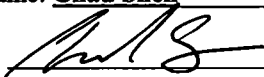
Closure

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

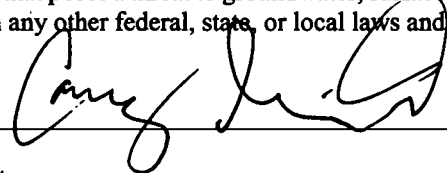
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public 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: 6-14-2019
email: csnell@enduringresources.com Telephone: (505)444-0586

OCD Only

Received by: OCD Date: 6/14/19

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: 6/27/19
Printed Name: Cory Title: Environmental Spec.

NE Chaco Com 197H Remediation Narrative

3/8/2019

A release had occurred due to failure in a dump line going to the onsite production tank. All equipment tied into the line was redirected to another line stopping the release. The liner was cut to assess impacted area of the release. Six barrels of produced water and oil was released from the line. All free standing oil was removed from the area.

3/11/2019

Clean-up activities began using a hydro-vac to remove impacted soil from the release point. Approximately 120 barrels of contaminated soil was removed from the excavation. Enduring sampled excavation to assess impacted areas due to closure criteria being most stringent (Chlorides: 600 ppm, TPH: 100 ppm, BTEX 50 ppm, Benzene: 10 ppm) due to a wetland less than 300ft away, see attached "Wetlands Map". Impacted areas had gone beneath the production tank and all clean-up activities were postponed until equipment was removed.

4/8/2019

Production tanks had been removed and clean-up activities were resumed. Approximately 36 yards of impacted soil was removed from excavation.

4/24/2019

Email notification was sent to NMOCD that closure sampling would take place on Friday April 26th 2019. See Attached "Email Notification".

4/26/2019

Enduring personnel was onsite to perform closure sampling. NMOCD was not onsite to witness. Eight composite samples were collected from the excavation area and sent in for analysis of BTEX, TPH, and Chlorides.

4/29/2019

Analytical report was received and results were above closure standards (Chlorides: 600 ppm, TPH: 100 ppm, BTEX 50 ppm, Benzene: 10 ppm).

5/28/2019

Additional clean-up activities were completed. Another 36 yards were hauled off as well as 200 barrels that was hydro-vaced. Notification was sent to NMOCD and BLM that closure samples would take place on Thursday 5/30/2019 at 9:00am. See attached *"Email Notification"*.

5/30/2019

Enduring personnel was on site along with the BLM for closure sampling. 7 composite samples were taken from the excavated area and later sent in for analysis.

5/31/2019

Received analytical report and five of the returned results were below standards. Two sections ("West Wall" and "Bottom") had elevated results and needed further excavation.

6/3/2019

Email notification was sent to the NMOCD that sampling activities for the two failed sections would take place Wednesday June 5th 2019. Enduring also asked for a 30 day extension from the 90 day deadline of June 6th 2019, due to the elevated results and having to do some further excavation.

6/4/2019

An additional 8 inches of soil was removed from the bottom and west wall of the excavation.

6/5/2019

Enduring personnel was onsite to collect the two composite samples of the bottom and west wall of the excavation. Samples were sent in for lab analysis.

6/7/2019

Analytical report was received and returned results were below standards (Chlorides: 600 ppm, TPH: 100 ppm, BTEX 50 ppm, Benzene: 10 ppm). No further excavation is needed and can be backfilled.

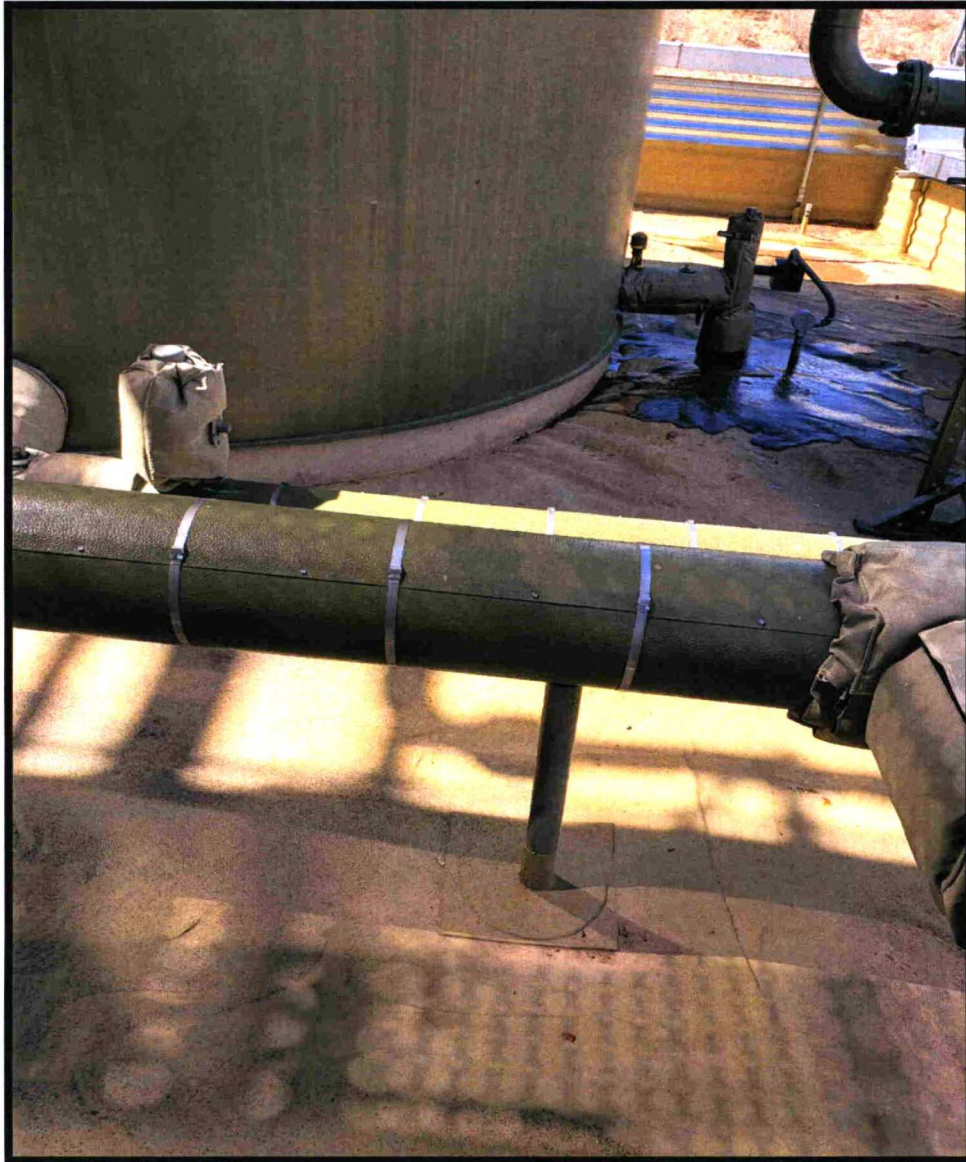
6/13/2019

Excavation was backfilled.



Enduring Resources, LLC
Photo Page
NE Chaco Com 197H
30-039-31278

Photos of Release





Enduring Resources, LLC
Photo Page
NE Chaco Com 197H
30-039-31278





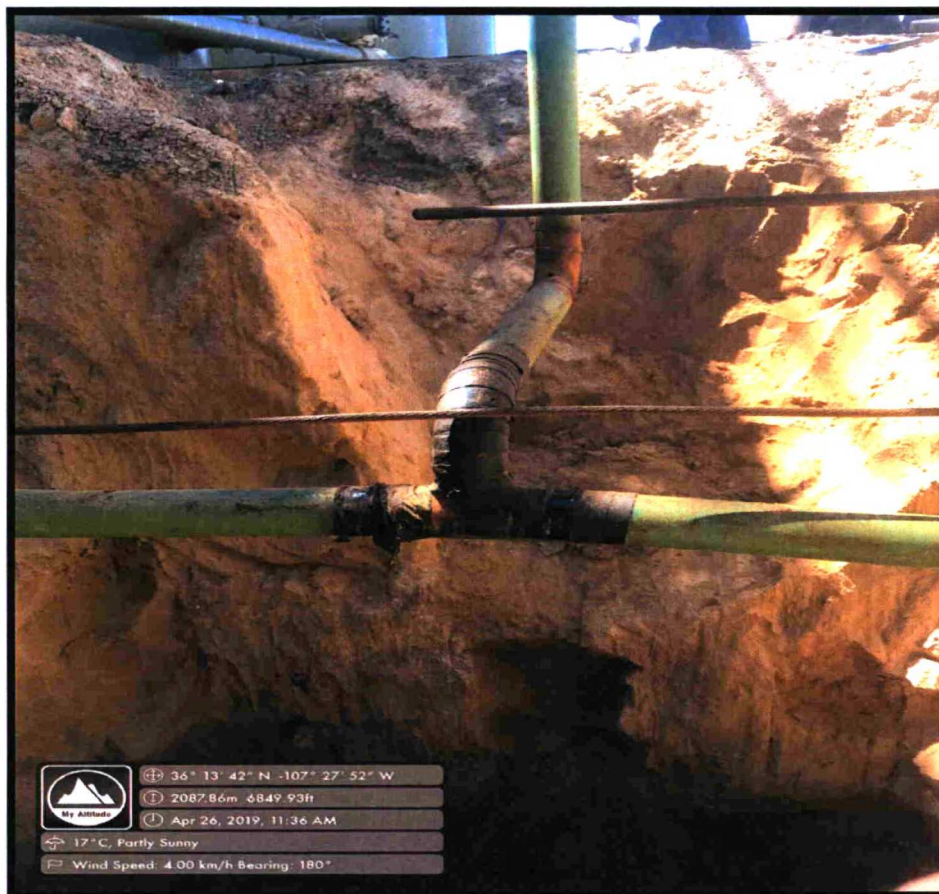
Enduring Resources, LLC
Photo Page
NE Chaco Com 197H
30-039-31278

Photos after clean-up 4/26/2019



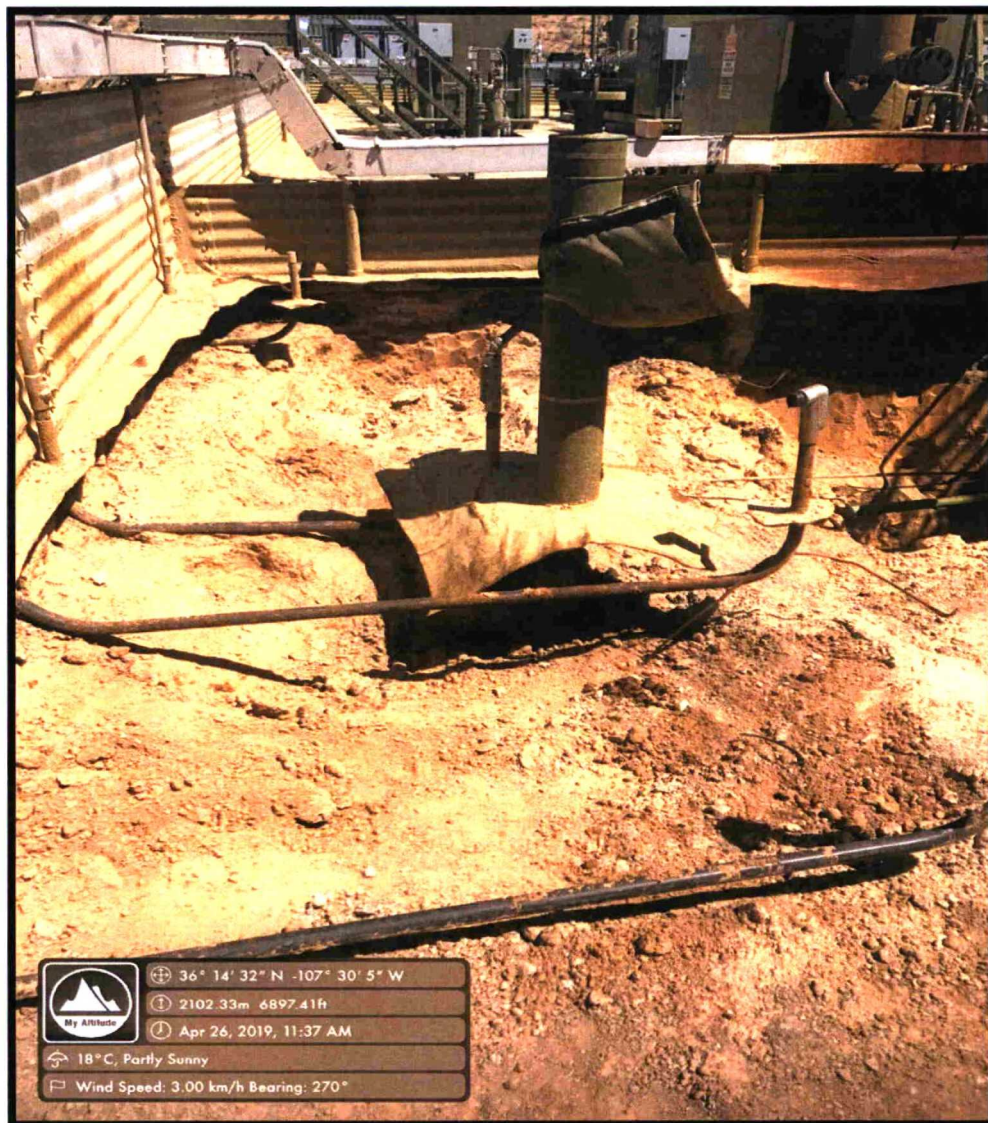


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NE Chaco Com 197H
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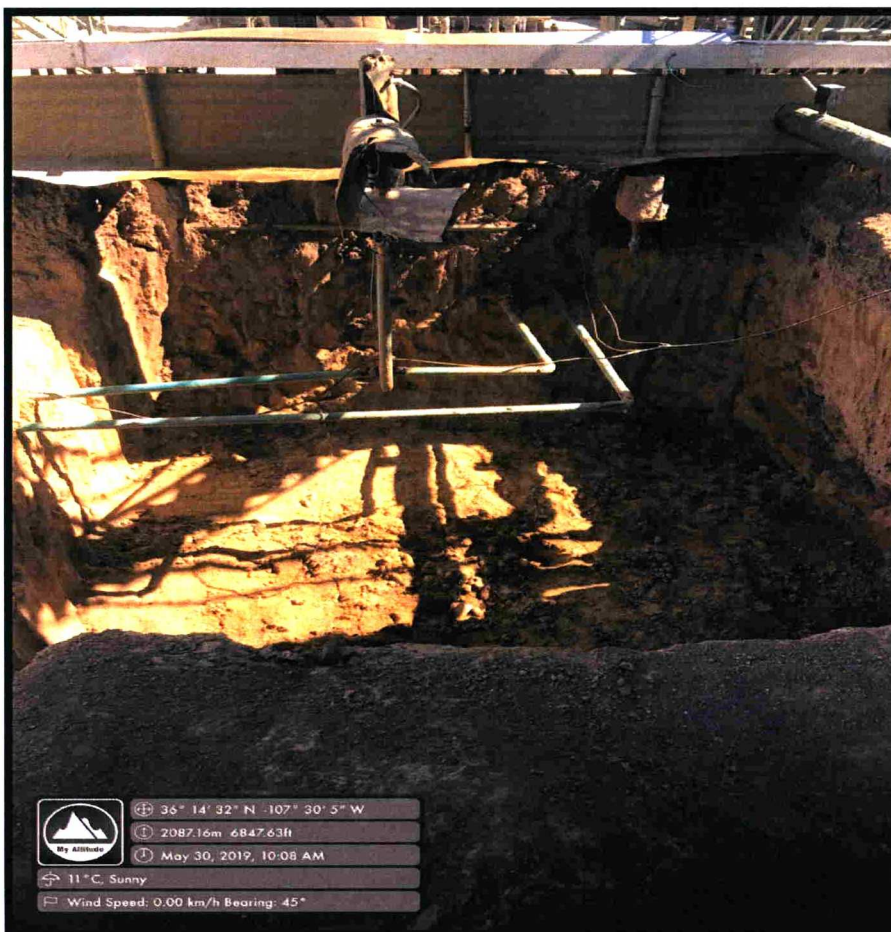
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NE Chaco Com 197H
30-039-31278





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Photos after clean up 5/30/2019



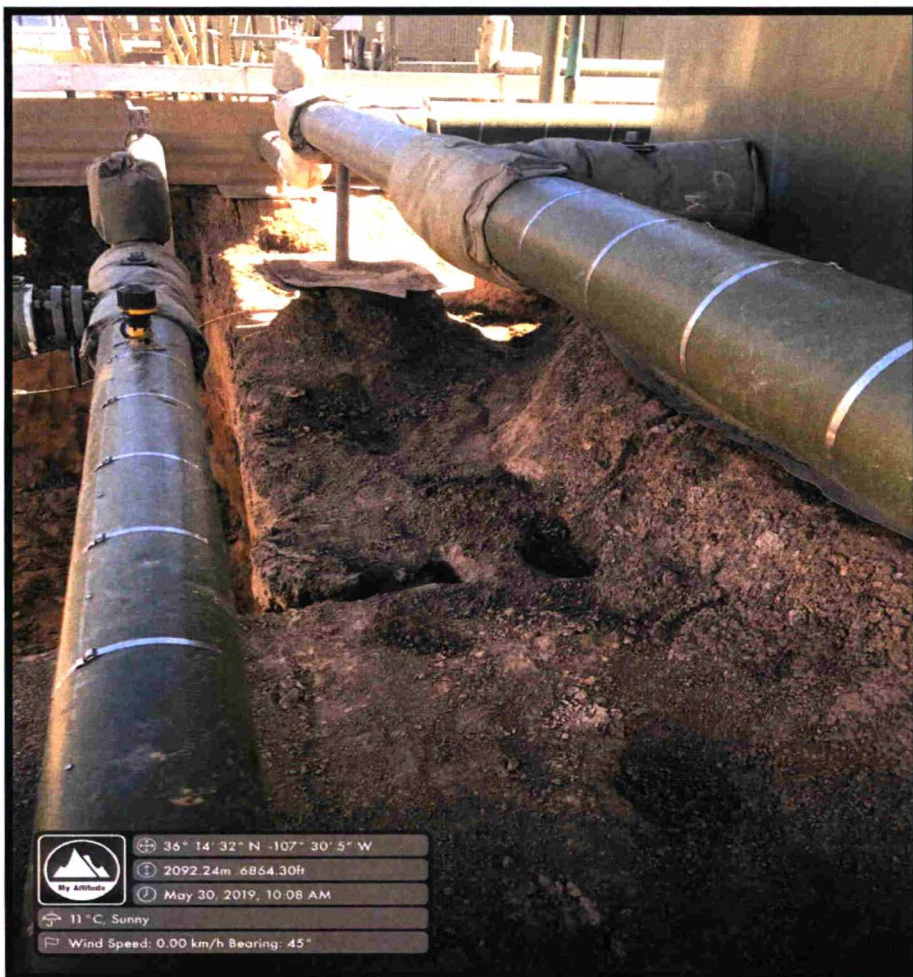


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Photo Page
NE Chaco Com 197H
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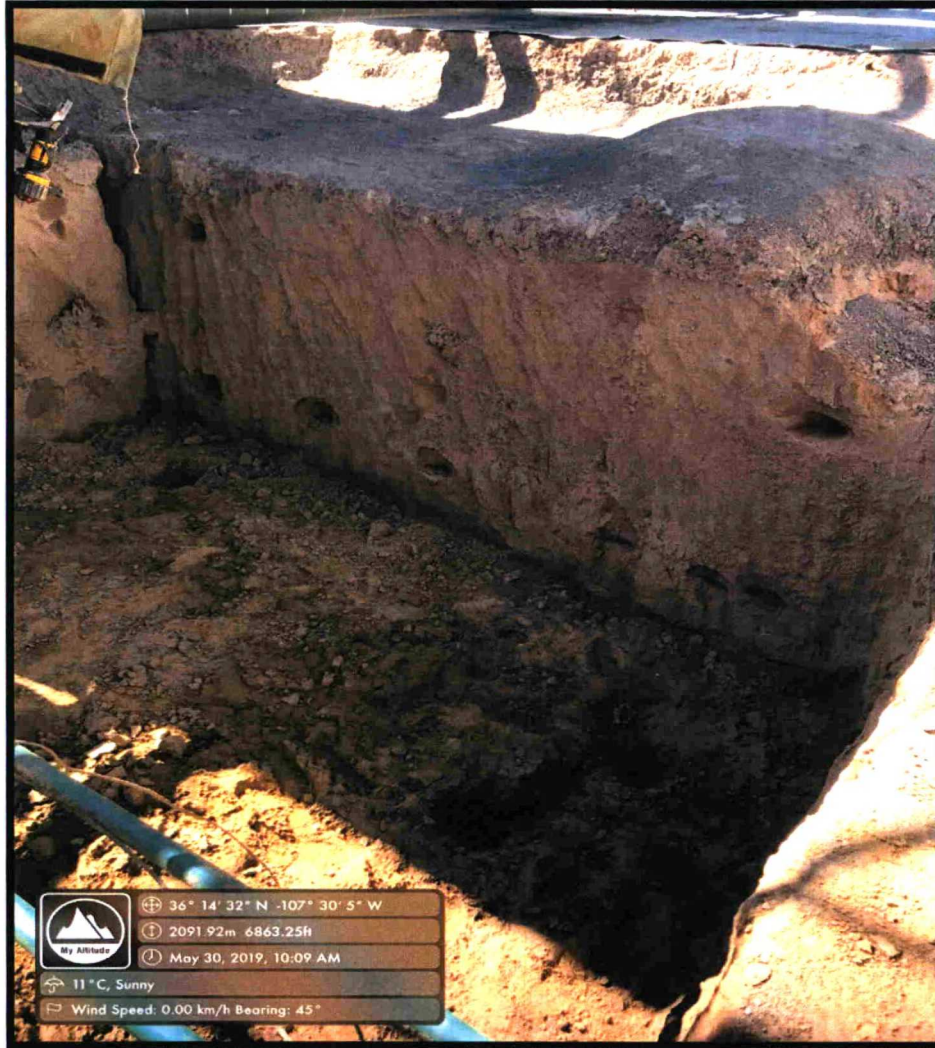


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NE Chaco Com 197H
30-039-31278





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NE Chaco Com 197H

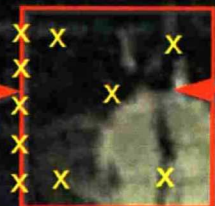
Sample Name	Description	Date	Time	DRO	GRO	DRO+ GRO	ORO	Total TPH	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	Chlorides	Square Footage
STANDARD	Wetland <300Ft	NA	NA	NA ppm	NA ppm	100 ppm	NA ppm	100 ppm	10 ppm	NA ppm	NA ppm	NA ppm	50 ppm	600 ppm	200 sq. ft
Hole	Composite	4/26/2019	11:00 AM	113	<20	123	54.9	177.9	<0.0250	<0.0250	<0.0250	<0.0250	<0.1	839	42
North Wall	Composite	4/26/2019	11:10 AM	<25	<20	<45	<50	<50	<0.0250	<0.0250	<0.0250	<0.0250	<0.1	474	48
East Wall	Composite	4/26/2019	11:20 AM	<25	<20	<45	<50	<50	<0.0250	<0.0250	<0.0250	<0.0250	<0.1	523	56
South Wall	Composite	4/26/2019	11:30 AM	27.2	<20	47.2	<50	97.2	<0.0250	<0.0250	<0.0250	<0.0250	<0.1	642	48
West Wall	Composite	4/26/2019	11:40 AM	184	<20	204	89.8	293.8	<0.0250	<0.0250	<0.0250	<0.0250	<0.1	732	56
Top West	Composite	4/26/2019	11:50 AM	145	<20	165	51.5	216.5	<0.0250	<0.0250	<0.0250	<0.0250	<0.1	342	96
Top East	Composite	4/26/2019	12:00 PM	94.5	<20	114.5	56.9	171.4	<0.0250	<0.0250	<0.0250	<0.0250	<0.1	222	96
Top South	Composite	4/26/2019	12:20 PM	<25	<20	<45	<50	<50	<0.0250	<0.0250	<0.0250	<0.0250	<0.1	469	48
East Wall	Composite	5/30/2019	9:00 AM	<25	<20	<45	<50	<50	<0.0250	<0.0250	<0.0250	<0.0250	<0.1	546	170
Bottom	Composite	5/30/2019	9:05 AM	<25	<20	<45	<50	<50	<0.0250	<0.0250	<0.0250	<0.0250	<0.1	828	187
South Wall	Composite	5/30/2019	9:10 AM	<25	<20	<45	<50	<50	<0.0250	<0.0250	<0.0250	<0.0250	<0.1	223	110
North Wall	Composite	5/30/2019	9:15 AM	<25	<20	<45	<50	<50	<0.0250	<0.0250	<0.0250	<0.0250	<0.1	361	110
West Wall	Composite	5/30/2019	9:20 AM	<25	<20	<45	<50	<50	<0.0250	<0.0250	<0.0250	<0.0250	<0.1	908	150
Top West	Composite	5/30/2019	9:25 AM	50.9	<20	70.9	<50	<70.9	<0.0250	<0.0250	<0.0250	<0.0250	<0.1	421	60
Top East	Composite	5/30/2019	9:30 AM	35.7	<20	55.7	<50	<55.7	<0.0250	<0.0250	<0.0250	<0.0250	<0.1	22	45
Bottom	Composite	6/5/2019	12:20 PM	<25	<20	<45	<50	<50	<0.0250	<0.0250	<0.0250	<0.0250	<0.1	395	150
West Wall	Composite	6/5/2019	12:25 PM	<25	<20	<45	<50	<50	<0.0250	<0.0250	<0.0250	<0.0250	<0.1	230	187

Closure Samples

Sample Points on 6/5/2019

West Wall
17'L x 10'W

Bottom
17'L x 11'W



Google Earth

© 2018 Google

35 ft

1897

Imagery Date: 10/03/2017 37°51'39.40"N 107°55'05.85"W 45m 4550m 5000m





Chad Snell

From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Sent: Friday, June 07, 2019 2:07 PM
To: Chad Snell
Cc: James McDaniel
Subject: RE: NE Chaco 197H Incident #NCS1907753213

Chad,

As discussed yesterday OCD approves Endurings extension request please include this approval in your final report.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Chad Snell <CSnell@enduringresources.com>
Sent: Monday, June 3, 2019 8:27 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: James McDaniel <JMcDaniel@enduringresources.com>
Subject: [EXT] NE Chaco 197H Incident #NCS1907753213

Cory,

Enduring would like a 30 day extension on the release at the NE Chaco 197H incident number NCS1907753213. We are finishing up final closure work but still need two sections resampled.

We would like to schedule a resample for the 2 sections that came back with elevated results on Wednesday June 5th 2019 at 9:00am.

Please contact us with any questions.

Thanks,

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

Chad Snell

From: Chad Snell
Sent: Wednesday, April 24, 2019 7:21 AM
To: 'Smith, Cory, EMNRD'; Powell, Brandon, EMNRD
Cc: James McDaniel
Subject: Confirmation Sampling

Cory,

Enduring Resources will be performing confirmation sampling activities on Friday April 26th 2019 at the following locations.

We will start at the Logos 3 (NCS1909440233, API:30-043-21135) at 9:30 am and sample 3 sections that return results were slightly elevated and needed further excavation.

After the Logos 3 we will head to the NE Chaco Com 197H (NCS1907753213, API: 30-039-31278) and perform sampling activities as well.

Please feel free to contact me with any questions.

Thank you,

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



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

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

(In feet)

POD Number	Code	Sub-basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Distance	Depth	Well	Depth	Water	Column
SJ01156		SJ	RA	2	2	1	18	23N	06W	274330	4012555*	0	1500	200	1300		
																Average Depth to Water:	200 feet
																Minimum Depth:	200 feet
																Maximum Depth:	200 feet

Record Count: 1

UTM NAD83 Radius Search (in meters):

Easting (X): 274330

Northing (Y): 4012555

Radius: 500

*UTM location was derived from PLSS - see Help

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

1/25/19 11:39 AM

WATER COLUMN/ AVERAGE DEPTH TO
WATER





Basemap Gallery



Imagery



Imagery with Labels



National Geographic



OpenStreetMap



Streets



Terrain with Labels



Topographic



USA Topo Maps



USGS National Map

Search bar: NE CHACO COM #197H X Q 30-039-23598

Show search results for NE CH...

Measurement

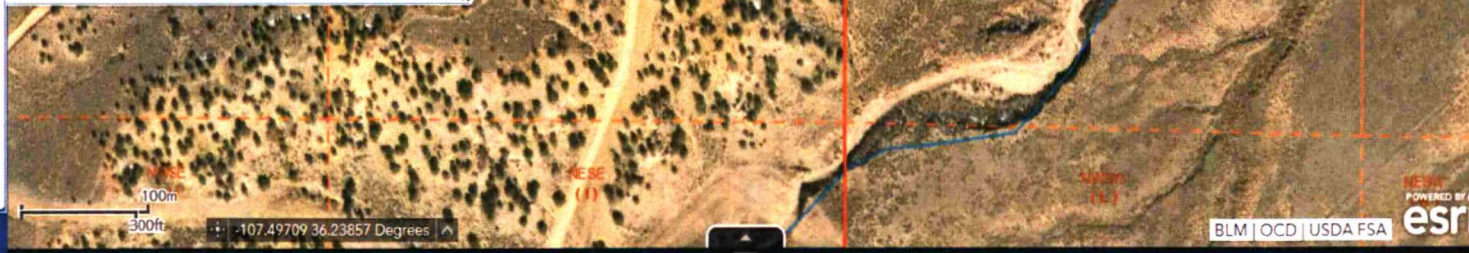
Feet

Measurement Result

797.9 Feet

Clear

Press CTRL to enable snapping





National Wetlands Inventory

surface waters and wetlands

ABOUT

GET DATA

PRINT

FIND LOCATION

BASEMAPS >

MAP LAYERS >

- ☒ Wetlands 1 2
- ☐ Riparian 1 2
- ☐ Riparian Mapping Areas 1 2
- ☒ Data Source 1 2
 - ☐ Source Type
 - ☐ Image Scale
 - ☐ Image Year
- ☐ Areas of Interest ?
- ☐ FWS Managed Lands 1 2
- ☐ Historic Wetland Data 1 2



Measure

Feet

Measurement Result

154.5 Feet

LEGEND

1:2,257
36.242 | -107.498

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

POWERED BY
esri

National Flood Hazard Layer FIRMette



36°14'46.77"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 X
		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		Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone
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
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 6/12/2019 at 4:00:32 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.

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

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

36°14'17.75"N

107°29'42.66"W



Analytical Report

Report Summary

Client: Enduring Resources, LLC

Samples Received: 6/5/2019

Job Number: 17065-0017

Work Order: P906016

Project Name/Location: NE Chaco 197H

Report Reviewed By:

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

Walter Hinchman, Laboratory Director

Date: 6/7/19



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. 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: NE Chaco 197H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
06/07/19 15:20

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
West Wall	P906016-01A	Soil	06/05/19	06/05/19	Glass Jar, 4 oz.
Bottom	P906016-02A	Soil	06/05/19	06/05/19	Glass Jar, 4 oz.

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5796 Highway 64, Farmington, NM 87401

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24 Hour Emergency Response Phone (800) 362-1879

envirotech, inc.

Labaddn@envirotech.com



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

Project Name: NE Chaco 197H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
06/07/19 15:20

West Wall
P906016-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatiles Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1923022	06/05/19	06/06/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1923022	06/05/19	06/06/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1923022	06/05/19	06/06/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1923022	06/05/19	06/06/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1923022	06/05/19	06/06/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1923022	06/05/19	06/06/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		92.7 %		50-150	1923022	06/05/19	06/06/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1923017	06/05/19	06/06/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1923017	06/05/19	06/06/19	EPA 8015D	
Surrogate: n-Nonane		110 %		50-200	1923017	06/05/19	06/06/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10) ^	ND	20.0	mg/kg	1	1923022	06/05/19	06/06/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		100 %		50-150	1923022	06/05/19	06/06/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	395	20.0	mg/kg	1	1923023	06/06/19	06/06/19	EPA 300.0/9056A	
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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: NE Chaco 197H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
06/07/19 15:20

Bottom
P906016-02 (Solid)

Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Volatiles Organics by EPA 8021								
Benzene	ND	0.0250	mg/kg	1	1923022	06/05/19	06/06/19	EPA 8021B
Toluene	ND	0.0250	mg/kg	1	1923022	06/05/19	06/06/19	EPA 8021B
Ethylbenzene	ND	0.0250	mg/kg	1	1923022	06/05/19	06/06/19	EPA 8021B
p,m-Xylene	ND	0.0500	mg/kg	1	1923022	06/05/19	06/06/19	EPA 8021B
o-Xylene	ND	0.0250	mg/kg	1	1923022	06/05/19	06/06/19	EPA 8021B
Total Xylenes	ND	0.0250	mg/kg	1	1923022	06/05/19	06/06/19	EPA 8021B
Surrogate: 4-Bromochlorobenzene-PID		98.8 %		50-150	1923022	06/05/19	06/06/19	EPA 8021B
Nonhalogenated Organics by 8015 - DRO/ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1923017	06/05/19	06/06/19	EPA 8015D
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1923017	06/05/19	06/06/19	EPA 8015D
Surrogate: n-Nonane		109 %		50-200	1923017	06/05/19	06/06/19	EPA 8015D
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1923022	06/05/19	06/06/19	EPA 8015D
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %		50-150	1923022	06/05/19	06/06/19	EPA 8015D
Anions by 300.0/9056A								
Chloride	230	20.0	mg/kg	1	1923023	06/06/19	06/06/19	EPA 300.0/9056A

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

Project Name: NE Chaco 197H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
06/07/19 15:20

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 1923022 - Purge and Trap EPA 5030A

Blank (1923022-BLK1)

Prepared: 06/05/19 | Analyzed: 06/06/19 2

Benzene	ND	0.0250	mg/kg							
Surrogate: 4-Bromochlorobenzene-PID	7.91		"	8.00		98.8	50-150			

LCS (1923022-BS1)

Prepared: 06/05/19 | Analyzed: 06/07/19 1

Benzene	4.39	0.0250	mg/kg	5.00		87.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.09		"	8.00		101	50-150			

Matrix Spike (1923022-MS1)

Source: P906013-01

Prepared: 06/05/19 | Analyzed: 06/07/19 1

Benzene	4.54	0.0250	mg/kg	5.00	ND	90.8	54.3-133			
Surrogate: 4-Bromochlorobenzene-PID	7.83		"	8.00		97.8	50-150			

Matrix Spike Dup (1923022-MSD1)

Source: P906013-01

Prepared: 06/05/19 | Analyzed: 06/07/19 1

Benzene	4.52	0.0250	mg/kg	5.00	ND	90.4	54.3-133	0.417	20	
Surrogate: 4-Bromochlorobenzene-PID	7.69		"	8.00		96.1	50-150			

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LabAdmin@envirotech-inc.com

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

 Project Name: NE Chaco 197H
 Project Number: 17065-0017
 Project Manager: Chad Snell

Reported:
 06/07/19 15:20

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 1923017 - DRO Extraction EPA 3570
Blank (1923017-BLK1)

Prepared: 06/05/19 0 Analyzed: 06/07/19 0

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: <i>n</i> -Nonane	56.4		"	50.0		113	50-200			

I.CS (1923017-BS1)

Prepared: 06/05/19 0 Analyzed: 06/07/19 0

Diesel Range Organics (C10-C28)	470	25.0	mg/kg	500		94.0	38-132			
Surrogate: <i>n</i> -Nonane	57.1		"	50.0		114	50-200			

Matrix Spike (1923017-MS1)

Source: P906008-01

Prepared: 06/05/19 0 Analyzed: 06/07/19 0

Diesel Range Organics (C10-C28)	1290	25.0	mg/kg	500	889	79.7	38-132			
Surrogate: <i>n</i> -Nonane	70.7		"	50.0		141	50-200			

Matrix Spike Dup (1923017-MSD1)

Source: P906008-01

Prepared: 06/05/19 0 Analyzed: 06/07/19 0

Diesel Range Organics (C10-C28)	1090	25.0	mg/kg	500	889	39.4	38-132	17.0	20	
Surrogate: <i>n</i> -Nonane	70.0		"	50.0		140	50-200			

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

Project Name: NE Chaco 197H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
06/07/19 15:20

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 1923022 - Purge and Trap EPA 5030A

Blank (1923022-BLK1)

Prepared: 06/05/19 1 Analyzed: 06/06/19 2

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.17		"	8.00		102	50-150			

LCS (1923022-BS2)

Prepared: 06/05/19 1 Analyzed: 06/07/19 1

Gasoline Range Organics (C6-C10)	50.3	20.0	mg/kg	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.05		"	8.00		101	50-150			

Matrix Spike (1923022-MS2)

Source: P906013-01

Prepared: 06/05/19 1 Analyzed: 06/07/19 1

Gasoline Range Organics (C6-C10)	56.3	20.0	mg/kg	50.0	ND	113	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.95		"	8.00		99.4	50-150			

Matrix Spike Dup (1923022-MSD2)

Source: P906013-01

Prepared: 06/05/19 1 Analyzed: 06/07/19 1

Gasoline Range Organics (C6-C10)	56.3	20.0	mg/kg	50.0	ND	113	70-130	0.0718	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.92		"	8.00		99.0	50-150			

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Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: NE Chaco 197H Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 06/07/19 15:20
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Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1923023 - Anion Extraction EPA 300.0/9056A										
Blank (1923023-BLK1)										
Chloride	ND	20.0	mg/kg							Prepared: 06/06/19 0 Analyzed: 06/06/19 1
LCS (1923023-BS1)										
Chloride	254	20.0	mg/kg	250		102	90-110			Prepared: 06/06/19 0 Analyzed: 06/06/19 1
Matrix Spike (1923023-MS1)										
Chloride	682	20.0	mg/kg	250	395	115	80-120			Source: P906016-01 Prepared: 06/06/19 0 Analyzed: 06/06/19 1
Matrix Spike Dup (1923023-MSD1)										
Chloride	761	20.0	mg/kg	250	395	146	80-120	11.0	20	SPK1

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: NE Chaco 197H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
06/07/19 15:20

Notes and Definitions

SPK1 The spike recovery is outside of quality control limits.

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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Analytical Laboratory

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Analytical Report

Report Summary

Client: Enduring Resources, LLC

Samples Received: 5/30/2019

Job Number: 19065-0017

Work Order: P905091

Project Name/Location: NE Chaco 197H

Report Reviewed By:

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

Date: 6/3/19

Walter Hinchman, Laboratory Director



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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: NE Chaco 197H
Project Number: 19065-0017
Project Manager: Chad Snell

Reported:
06/03/19 16:35

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
East Wall	P905091-01A	Soil	05/30/19	05/30/19	Glass Jar, 4 oz.
Bottom	P905091-02A	Soil	05/30/19	05/30/19	Glass Jar, 4 oz.
South Wall	P905091-03A	Soil	05/30/19	05/30/19	Glass Jar, 4 oz.
North Wall	P905091-04A	Soil	05/30/19	05/30/19	Glass Jar, 4 oz.
West Wall	P905091-05A	Soil	05/30/19	05/30/19	Glass Jar, 4 oz.
Top West	P905091-06A	Soil	05/30/19	05/30/19	Glass Jar, 4 oz.
Top East	P905091-07A	Soil	05/30/19	05/30/19	Glass Jar, 4 oz.

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

Project Name: NE Chaco 197H
Project Number: 19065-0017
Project Manager: Chad Snell

Reported:
06/03/19 16:35

East Wall
P905091-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1922025	05/30/19	05/30/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1922029	05/30/19	05/30/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1922029	05/30/19	05/30/19	EPA 8015D	
Surrogate: n-Nonane		106 %		50-200	1922029	05/30/19	05/30/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %		50-150	1922025	05/30/19	05/30/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	546	20.0	mg/kg	1	1922027	05/30/19	05/30/19	EPA 300.0/9056A	

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

Project Name: NE Chaco 197H
Project Number: 19065-0017
Project Manager: Chad Snell

Reported:
06/03/19 16:35

Bottom
P905091-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %		50-150	1922025	05/30/19	05/30/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1922029	05/30/19	05/31/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1922029	05/30/19	05/31/19	EPA 8015D	
Surrogate: n-Nonane		97.5 %		50-200	1922029	05/30/19	05/31/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %		50-150	1922025	05/30/19	05/30/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	828	20.0	mg/kg	1	1922027	05/30/19	05/30/19	EPA 300.0/9056A	

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

Project Name: NE Chaco 197H
Project Number: 19065-0017
Project Manager: Chad Snell

Reported:
06/03/19 16:35

South Wall
P905091-03 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %		50-150	1922025	05/30/19	05/30/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1922029	05/30/19	05/31/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1922029	05/30/19	05/31/19	EPA 8015D	
Surrogate: n-Nonane		98.7 %		50-200	1922029	05/30/19	05/31/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %		50-150	1922025	05/30/19	05/30/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	223	20.0	mg/kg	1	1922027	05/30/19	05/30/19	EPA 300.0/9056A	

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Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: NE Chaco 197H Project Number: 19065-0017 Project Manager: Chad Snell	Reported: 06/03/19 16:35
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**North Wall
P905091-04 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	1922025	05/30/19	05/30/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1922029	05/30/19	05/31/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1922029	05/30/19	05/31/19	EPA 8015D	
Surrogate: n-Nonane		111 %		50-200	1922029	05/30/19	05/31/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %		50-150	1922025	05/30/19	05/30/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	361	20.0	mg/kg	1	1922027	05/30/19	05/30/19	EPA 300.0/9056A	

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

Project Name: NE Chaco 197H
Project Number: 19065-0017
Project Manager: Chad Snell

Reported:
06/03/19 16:35

West Wall
P905091-05 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %		50-150	1922025	05/30/19	05/30/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1922029	05/30/19	05/31/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1922029	05/30/19	05/31/19	EPA 8015D	
Surrogate: n-Nonane		107 %		50-200	1922029	05/30/19	05/31/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		100 %		50-150	1922025	05/30/19	05/30/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	908	20.0	mg/kg	1	1922027	05/30/19	05/30/19	EPA 300.0/9056A	

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

 Project Name: NE Chaco 197H
 Project Number: 19065-0017
 Project Manager: Chad Snell

Reported:
 06/03/19 16:35

Top West
P905091-06 (Solid)

Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Volatile Organics by EPA 8021								
Benzene	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B
Toluene	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B
Ethylbenzene	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B
p,m-Xylene	ND	0.0500	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B
o-Xylene	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B
Total Xylenes	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B
Surrogate: 4-Bromochlorobenzene-PID		104 %		50-150	1922025	05/30/19	05/30/19	EPA 8021B
Nonhalogenated Organics by 8015 - DRO/ORO								
Diesel Range Organics (C10-C28)	50.9	25.0	mg/kg	1	1922029	05/30/19	05/31/19	EPA 8015D
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1922029	05/30/19	05/31/19	EPA 8015D
Surrogate: n-Nonane		107 %		50-200	1922029	05/30/19	05/31/19	EPA 8015D
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8015D
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %		50-150	1922025	05/30/19	05/30/19	EPA 8015D
Anions by 300.0/9056A								
Chloride	421	20.0	mg/kg	1	1922027	05/30/19	05/30/19	EPA 300.0/9056A

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Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: NE Chaco 197H Project Number: 19065-0017 Project Manager: Chad Snell	Reported: 06/03/19 16:35
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**Top East
P905091-07 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatle Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %		50-150	1922025	05/30/19	05/30/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	35.7	25.0	mg/kg	1	1922029	05/30/19	05/31/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1922029	05/30/19	05/31/19	EPA 8015D	
Surrogate: n-Nonane		104 %		50-200	1922029	05/30/19	05/31/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1922025	05/30/19	05/30/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		100 %		50-150	1922025	05/30/19	05/30/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	22.0	20.0	mg/kg	1	1922027	05/30/19	05/30/19	EPA 300.0/9056A	

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

Project Name: NE Chaco 197H
Project Number: 19065-0017
Project Manager: Chad Snell

Reported:
06/03/19 16:35

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 1922025 - Purge and Trap EPA 5030A

Blank (1922025-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 8.01 " 8.00 100 50-150

LCS (1922025-BS1)

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

Benzene	4.42	0.0250	mg/kg	5.00		88.4	70-130			
Toluene	4.82	0.0250	"	5.00		96.5	70-130			
Ethylbenzene	4.82	0.0250	"	5.00		96.4	70-130			
p,m-Xylene	9.91	0.0500	"	10.0		99.1	70-130			
o-Xylene	4.80	0.0250	"	5.00		96.1	70-130			
Total Xylenes	14.7	0.0250	"	15.0		98.1	70-130			

Surrogate: 4-Bromochlorobenzene-PID 7.97 " 8.00 99.6 50-150

Matrix Spike (1922025-MS1)

Source: P905090-01

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

Benzene	4.51	0.0250	mg/kg	5.00	ND	90.1	54.3-133			
Toluene	4.90	0.0250	"	5.00	ND	98.0	61.4-130			
Ethylbenzene	4.89	0.0250	"	5.00	ND	97.8	61.4-133			
p,m-Xylene	10.1	0.0500	"	10.0	ND	101	63.3-131			
o-Xylene	4.87	0.0250	"	5.00	ND	97.4	63.3-131			
Total Xylenes	14.9	0.0250	"	15.0	ND	99.5	63.3-131			

Surrogate: 4-Bromochlorobenzene-PID 8.00 " 8.00 100 50-150

Matrix Spike Dup (1922025-MSD1)

Source: P905090-01

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

Benzene	4.50	0.0250	mg/kg	5.00	ND	90.0	54.3-133	0.0933	20	
Toluene	4.89	0.0250	"	5.00	ND	97.7	61.4-130	0.241	20	
Ethylbenzene	4.87	0.0250	"	5.00	ND	97.5	61.4-133	0.291	20	
p,m-Xylene	10.0	0.0500	"	10.0	ND	100	63.3-131	0.350	20	
o-Xylene	4.86	0.0250	"	5.00	ND	97.2	63.3-131	0.273	20	
Total Xylenes	14.9	0.0250	"	15.0	ND	99.2	63.3-131	0.325	20	

Surrogate: 4-Bromochlorobenzene-PID 8.02 " 8.00 100 50-150

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

Project Name: NE Chaco 197H
Project Number: 19065-0017
Project Manager: Chad Snell

Reported:
06/03/19 16:35

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 1922029 - DRO Extraction EPA 3570

Blank (1922029-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	53.0		"	50.0		106	50-200			

LCS (1922029-BS1)

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

Diesel Range Organics (C10-C28)	483	25.0	mg/kg	500		96.5	38-132			
Surrogate: n-Nonane	50.2		"	50.0		100	50-200			

Matrix Spike (1922029-MS1)

Source: P905090-01

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

Diesel Range Organics (C10-C28)	476	25.0	mg/kg	500	ND	95.2	38-132			
Surrogate: n-Nonane	51.6		"	50.0		103	50-200			

Matrix Spike Dup (1922029-MSD1)

Source: P905090-01

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

Diesel Range Organics (C10-C28)	470	25.0	mg/kg	500	ND	94.0	38-132	1.33	20	
Surrogate: n-Nonane	52.0		"	50.0		104	50-200			

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5706 Highway 64, Farmington, NM 87401

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24 Hour Emergency Response Phone (800) 362-1879

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Labadmin@envirotech-inc.com



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

Project Name: NE Chaco 197H
Project Number: 19065-0017
Project Manager: Chad Snell

Reported:
06/03/19 16:35

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 1922025 - Purge and Trap EPA 5030A

Blank (1922025-BLK1)

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

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.04		"	8.00		100	50-150			

LCS (1922025-BS2)

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

Gasoline Range Organics (C6-C10)	52.5	20.0	mg/kg	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.17		"	8.00		102	50-150			

Matrix Spike (1922025-MS2)

Source: P905090-01

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

Gasoline Range Organics (C6-C10)	53.1	20.0	mg/kg	50.0	ND	106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.16		"	8.00		102	50-150			

Matrix Spike Dup (1922025-MSD2)

Source: P905090-01

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

Gasoline Range Organics (C6-C10)	53.2	20.0	mg/kg	50.0	ND	106	70-130	0.0550	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.12		"	8.00		101	50-150			

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Enduring Resources, LLC	Project Name:	NE Chaco 197H	Reported: 06/03/19 16:35
511 16th Street, Suite 700	Project Number:	19065-0017	
Denver CO, 80202	Project Manager:	Chad Snell	

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 1922027 - Anion Extraction EPA 300.0/9056A

Blank (1922027-BLK1)

Prepared: 05/30/19 1 Analyzed: 05/31/19 0

Chloride	ND	20.0	mg/kg							
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LCS (1922027-BS1)

Prepared: 05/30/19 1 Analyzed: 05/31/19 0

Chloride	258	20.0	mg/kg	250		103	90-110			
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Matrix Spike (1922027-MS1)

Source: P905091-01

Prepared: 05/30/19 1 Analyzed: 05/31/19 0

Chloride	814	20.0	mg/kg	250	546	107	80-120			
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Matrix Spike Dup (1922027-MSD1)

Source: P905091-01

Prepared: 05/30/19 1 Analyzed: 05/31/19 0

Chloride	802	20.0	mg/kg	250	546	102	80-120	1.47	20	
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QC Summary Report

Comment:

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

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

Project Name: NE Chaco 197H
Project Number: 19065-0017
Project Manager: Chad Snell

Reported:
06/03/19 16:35

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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24 Hour Emergency Response Phone (800) 362-1879

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Project Information

Chain of Custody

Page 1 of 1

Client: <u>Enduring Resources</u>		Report due by: <u>5-31-19</u>		Lab WO# <u>P905091</u>		Job Number <u>DBT 1905091</u>		TAT		EPA Program		
Project: <u>NE Chico 197H</u>		Attention:						1D 3D		RCRA CWA SDWA		
Project Manager: <u>Chad Snell</u>		Address:										
Address: <u>200 Energy Court</u>		City, State, Zip								State		
City, State, Zip: <u>Farmington, NM</u>		Phone:								NM CO UT AZ		
Phone: <u>(505) 444-0586</u>		Email: <u>J.Medanele@enduringresources.com</u>										
Email: <u>CSnell@enduringresources.com</u>												

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1							Remarks
9.00	5-30-19	S	1	East Wall	1	X	X	X			X								
9.05			1	Bottom	2	X	X	X			X								
9.10			1	South wall	3	X	X	X			X								
9.15			1	North Wall	4	X	X	X			X								
9.20			1	West Wall	5	X	X	X			X								
9.25			1	Top west	6	X	X	X			X								
9.30			1	Top East	7	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 5-30-19

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<u>[Signature]</u>	5-30-19	3:25pm	<u>S. Paula Lopez</u>	5-30-19	3:28pm	Received on ice: <u>Y</u> / N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3
						AVG Temp °C <u>4</u>

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

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

Page 15 of 15



5796 US Highway 64, Farmington, NM 87401
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laboratory@envirotechinc.com



Analytical Report

Report Summary

Client: Enduring Resources, LLC

Samples Received: 4/26/2019

Job Number: 17065-0017

Work Order: P904131

Project Name/Location: Chaco 197

Draft

Report Reviewed By:

Date: 4/29/19

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. 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: Chaco 197
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
04/29/19 16:39

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
South Wall	P904131-01A	Soil	04/26/19	04/26/19	Glass Jar, 4 oz.
Top West	P904131-02A	Soil	04/26/19	04/26/19	Glass Jar, 4 oz.
North Wall	P904131-03A	Soil	04/26/19	04/26/19	Glass Jar, 4 oz.
Hole	P904131-04A	Soil	04/26/19	04/26/19	Glass Jar, 4 oz.
Top South	P904131-05A	Soil	04/26/19	04/26/19	Glass Jar, 4 oz.
East Wall	P904131-06A	Soil	04/26/19	04/26/19	Glass Jar, 4 oz.
West Wall	P904131-07A	Soil	04/26/19	04/26/19	Glass Jar, 4 oz.
Top East	P904131-08A	Soil	04/26/19	04/26/19	Glass Jar, 4 oz.

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Enduring Resources, LLC	Project Name: Chaco 197	Reported:
511 16th Street, Suite 700	Project Number: 17065-0017	04/29/19 16:39
Denver CO, 80202	Project Manager: Chad Snell	

**South Wall
P904131-01 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/28/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/28/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/28/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1917045	04/26/19	04/28/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/28/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1917045	04/26/19	04/28/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %		50-150	1917045	04/26/19	04/28/19	EPA 8021B	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1917045	04/26/19	04/28/19	EPA 8015D	
Diesel Range Organics (C10-C28)	27.2	25.0	mg/kg	1	1917048	04/29/19	04/29/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1917048	04/29/19	04/29/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.6 %		50-150	1917045	04/26/19	04/28/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		55.7 %		50-200	1917048	04/29/19	04/29/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	642	20.0	mg/kg	1	1917044	04/27/19	04/27/19	EPA 300.0/9056A	
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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: Chaco 197
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
04/29/19 16:39

Top West
P904131-02 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<u>Volatile Organics by EPA 8021</u>									
Benzene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/28/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/28/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/28/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1917045	04/26/19	04/28/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/28/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1917045	04/26/19	04/28/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %		50-150	1917045	04/26/19	04/28/19	EPA 8021B	
<u>Nonhalogenated Organics by 8015</u>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1917045	04/26/19	04/28/19	EPA 8015D	
Diesel Range Organics (C10-C28)	145	25.0	mg/kg	1	1917048	04/29/19	04/29/19	EPA 8015D	
Oil Range Organics (C28-C40)	51.5	50.0	mg/kg	1	1917048	04/29/19	04/29/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.4 %		50-150	1917045	04/26/19	04/28/19	EPA 8015D	
Surrogate: n-Nonane		66.1 %		50-200	1917048	04/29/19	04/29/19	EPA 8015D	
<u>Anions by 300.0/9056A</u>									
Chloride	342	20.0	mg/kg	1	1917044	04/27/19	04/27/19	EPA 300.0/9056A	

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

 Project Name: Chaco 197
 Project Number: 17065-0017
 Project Manager: Chad Snell

Reported:
 04/29/19 16:39

North Wall
P904131-03 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %		50-150	1917045	04/26/19	04/29/19	EPA 8021B	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1917048	04/29/19	04/29/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1917048	04/29/19	04/29/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.4 %		50-150	1917045	04/26/19	04/29/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		97.3 %		50-200	1917048	04/29/19	04/29/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	474	20.0	mg/kg	1	1917044	04/27/19	04/27/19	EPA 300.0/9056A	
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Enduring Resources, LLC	Project Name:	Chaco 197	Reported: 04/29/19 16:39
511 16th Street, Suite 700	Project Number:	17065-0017	
Denver CO, 80202	Project Manager:	Chad Snell	

Hole
P904131-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1917045	04/26/19	04/29/19	EPA 8021B	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8015D	
Diesel Range Organics (C10-C28)	113	25.0	mg/kg	1	1917048	04/29/19	04/29/19	EPA 8015D	
Oil Range Organics (C28-C40)	54.9	50.0	mg/kg	1	1917048	04/29/19	04/29/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.7 %		50-150	1917045	04/26/19	04/29/19	EPA 8015D	
Surrogate: n-Nonane		96.2 %		50-200	1917048	04/29/19	04/29/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	839	20.0	mg/kg	1	1917044	04/27/19	04/27/19	EPA 300.0/9056A	
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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: Chaco 197
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
04/29/19 16:39

Top South
P904131-05 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1917045	04/26/19	04/29/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1917048	04/29/19	04/29/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1917048	04/29/19	04/29/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.5 %		50-150	1917045	04/26/19	04/29/19	EPA 8015D	
Surrogate: n-Nonane		102 %		50-200	1917048	04/29/19	04/29/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	469	20.0	mg/kg	1	1917044	04/27/19	04/27/19	EPA 300.0/9056A	

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

Project Name: Chaco 197
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
04/29/19 16:39

East Wall
P904131-06 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatle Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1917045	04/26/19	04/29/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1917048	04/29/19	04/29/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1917048	04/29/19	04/29/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.2 %		50-150	1917045	04/26/19	04/29/19	EPA 8015D	
Surrogate: n-Nonane		94.7 %		50-200	1917048	04/29/19	04/29/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	523	20.0	mg/kg	1	1917044	04/27/19	04/27/19	EPA 300.0/9056A	

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

 Project Name: Chaco 197
 Project Number: 17065-0017
 Project Manager: Chad Snell

Reported:
 04/29/19 16:39

West Wall
P904131-07 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %		50-150	1917045	04/26/19	04/29/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8015D	
Diesel Range Organics (C10-C28)	184	25.0	mg/kg	1	1917048	04/29/19	04/29/19	EPA 8015D	
Oil Range Organics (C28-C40)	89.8	50.0	mg/kg	1	1917048	04/29/19	04/29/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.8 %		50-150	1917045	04/26/19	04/29/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		102 %		50-200	1917048	04/29/19	04/29/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	732	20.0	mg/kg	1	1917044	04/27/19	04/27/19	EPA 300.0/9056A	

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

Project Name: Chaco 197
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
04/29/19 16:39

**Top East
P904131-08 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<u>Volatile Organics by EPA 8021</u>									
Benzene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1917045	04/26/19	04/29/19	EPA 8021B	
<u>Nonhalogenated Organics by 8015</u>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1917045	04/26/19	04/29/19	EPA 8015D	
Diesel Range Organics (C10-C28)	94.5	25.0	mg/kg	1	1917048	04/29/19	04/29/19	EPA 8015D	
Oil Range Organics (C28-C40)	56.9	50.0	mg/kg	1	1917048	04/29/19	04/29/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.6 %		50-150	1917045	04/26/19	04/29/19	EPA 8015D	
Surrogate: n-Nonane		96.8 %		50-200	1917048	04/29/19	04/29/19	EPA 8015D	
<u>Anions by 300.0/9056A</u>									
Chloride	222	20.0	mg/kg	1	1917044	04/27/19	04/27/19	EPA 300.0/9056A	

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Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: Chaco 197 Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 04/29/19 16:39
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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 1917045 - Purge and Trap EPA 5030A

Blank (1917045-BLK1) Prepared: 04/26/19 | Analyzed: 04/28/19 |

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 8.07 " 8.00 101 50-150

LCS (1917045-BS1) Prepared: 04/26/19 | Analyzed: 04/28/19 |

Benzene	4.61	0.0250	mg/kg	5.00		92.1	70-130			
Toluene	5.02	0.0250	"	5.00		100	70-130			
Ethylbenzene	5.01	0.0250	"	5.00		100	70-130			
p,m-Xylene	10.3	0.0500	"	10.0		103	70-130			
o-Xylene	5.00	0.0250	"	5.00		100	70-130			
Total Xylenes	15.3	0.0250	"	15.0		102	70-130			

Surrogate: 4-Bromochlorobenzene-PID 8.05 " 8.00 101 50-150

Matrix Spike (1917045-MS1) Source: P904128-01 Prepared: 04/26/19 | Analyzed: 04/28/19 |

Benzene	4.43	0.0250	mg/kg	5.00	0.0337	87.8	54.3-133			
Toluene	5.45	0.0250	"	5.00	0.899	90.9	61.4-130			
Ethylbenzene	5.21	0.0250	"	5.00	0.428	95.7	61.4-133			
p,m-Xylene	15.9	0.0500	"	10.0	7.40	84.5	63.3-131			
o-Xylene	6.44	0.0250	"	5.00	1.97	89.2	63.3-131			
Total Xylenes	22.3	0.0250	"	15.0	9.38	86.1	63.3-131			

Surrogate: 4-Bromochlorobenzene-PID 7.50 " 8.00 93.7 50-150

Matrix Spike Dup (1917045-MSD1) Source: P904128-01 Prepared: 04/26/19 | Analyzed: 04/28/19 |

Benzene	4.41	0.0250	mg/kg	5.00	0.0337	87.5	54.3-133	0.342	20	
Toluene	5.28	0.0250	"	5.00	0.899	87.6	61.4-130	3.07	20	
Ethylbenzene	5.15	0.0250	"	5.00	0.428	94.5	61.4-133	1.20	20	
p,m-Xylene	15.1	0.0500	"	10.0	7.40	76.5	63.3-131	5.16	20	
o-Xylene	6.24	0.0250	"	5.00	1.97	85.3	63.3-131	3.14	20	
Total Xylenes	21.3	0.0250	"	15.0	9.38	79.4	63.3-131	4.57	20	

Surrogate: 4-Bromochlorobenzene-PID 7.93 " 8.00 99.1 50-150

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Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: Chaco 197 Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 04/29/19 16:39
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Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1917045 - Purge and Trap EPA 5030A										
Blank (1917045-BLK1)				Prepared: 04/26/19 Analyzed: 04/28/19						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		"	8.00		93.8	50-150			
LCS (1917045-BS2)				Prepared: 04/26/19 Analyzed: 04/28/19						
Gasoline Range Organics (C6-C10)	56.0	20.0	mg/kg	50.0		112	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.83		"	8.00		97.9	50-150			
Matrix Spike (1917045-MS2)				Source: P904128-01		Prepared: 04/26/19 Analyzed: 04/28/19				
Gasoline Range Organics (C6-C10)	155	20.0	mg/kg	50.0	124	62.2	70-130			SPK I
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.33		"	8.00		104	50-150			
Matrix Spike Dup (1917045-MSD2)				Source: P904128-01		Prepared: 04/26/19 Analyzed: 04/28/19				
Gasoline Range Organics (C6-C10)	152	20.0	mg/kg	50.0	124	55.3	70-130	2.23	20	SPK I
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.20		"	8.00		102	50-150			

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

Project Name: Chaco 197
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
04/29/19 16:39

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1917048 - DRO Extraction EPA 3570										
Blank (1917048-BLK1)				Prepared: 04/29/19 0 Analyzed: 04/29/19 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	0.00		"	50.0			50-200			
LCS (1917048-BS1)				Prepared: 04/29/19 0 Analyzed: 04/29/19 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	500			38-132			
Surrogate: n-Nonane	0.00		"	50.0			50-200			
Matrix Spike (1917048-MS1)				Source: P904130-01		Prepared: 04/29/19 0 Analyzed: 04/29/19 1				
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	500	168	NR	38-132			
Surrogate: n-Nonane	0.00		"	50.0			50-200			
Matrix Spike Dup (1917048-MSD1)				Source: P904130-01		Prepared: 04/29/19 0 Analyzed: 04/29/19 1				
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	500	168	NR	38-132		20	
Surrogate: n-Nonane	0.00		"	50.0			50-200			

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

Project Name: Chaco 197
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
04/29/19 16:39

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1917044 - Anion Extraction EPA 300.0/9056A										
Blank (1917044-BLK1)				Prepared: 04/27/19 0 Analyzed: 04/27/19 1						
Chloride	ND	20.0	mg/kg							
LCS (1917044-BS1)				Prepared: 04/27/19 0 Analyzed: 04/27/19 1						
Chloride	255	20.0	mg/kg	250		102	90-110			
Matrix Spike (1917044-MS1)				Source: P904130-01 Prepared: 04/27/19 0 Analyzed: 04/27/19 1						
Chloride	299	20.0	mg/kg	250	39.3	104	80-120			
Matrix Spike Dup (1917044-MSD1)				Source: P904130-01 Prepared: 04/27/19 0 Analyzed: 04/27/19 1						
Chloride	301	20.0	mg/kg	250	39.3	105	80-120	0.823	20	

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Notes and Definitions

SPK1 The spike recovery is outside of quality control limits.

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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