

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	nRM2005749421
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

DENIED

Responsible Party: Enduring Resources	OGRID: 372286
Contact Name: Chad Snell	Contact Telephone: 505-444-0586
Contact email: csnell@enduringresources.com	Incident # (assigned by OCD) nRM2005749421
Contact mailing address: 200 Energy Court	Farmington, New Mexico 87401

Location of Release Source

Latitude 36.172497 Longitude -107.535743
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: S Chaco Unit 342H	Site Type: Wellsite
Date Release Discovered: 8/9/2019	API# (if applicable) 30-043-21243

Unit Letter	Section	Township	Range	County	
A	2	22N	7W	Sandoval	*Incomplete C-141, Operator requesting Deferal, needs to Sign Remediation Plan Page *Cannot grant deferral if site is not fully delineated, Oct 21, sampling event show multiple Zones over closure standards no sampling event after showing delineation.

Surface Owner: ☐ State ☐ Federal ☒ Tribal ☐ Private (Name: _____) Please submit Remediation Plan no later than 4/10/2020

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls):
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): 300 BBLS	Volume Recovered (bbls): 40 BBLS
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

On 8/9/2019, an Enduring employee noticed water seeping from beneath the liner at this location. The well was shut in, and 40 bbls of liquid was recovered. Upon review of production volumes, it appears approximately 300 bbls of produced water was lost through a leaking underground flowline. Assessment activities took place on 8/12/2019. Results are attached. Groundwater at this site is over 100 feet based on a cathodic well drilled at the location, see attached *Cathodic Well Log*. This sets the standards for closure to 20,000 ppm chlorides, 10 ppm benzene, 50 ppm total BTEX, 1,000 ppm DRO+GRO, and 2,500 ppm DRO+GRO+MRO.

Form C-141

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?

☒ Yes ☐ No

If YES, for what reason(s) does the responsible party consider this a major release?
The volume of the release is of sufficient volume to be considered a major release

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Notice was provided to Cory Smith, NMOCD, at 4:46 PM on 8/9/2019 via phone call by James McDaniel, HSE Supervisor. A follow-up email was sent on 8/9/2019 at 4:58 PM, see attached email.

Initial Response

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

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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: _____

OCD Only

Received by: _____ Date: _____

Form C-141

State of New Mexico
Oil Conservation Division

Page 3

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>118</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 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.

Form C-141

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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: _____

Form C-141

State of New Mexico
Oil Conservation Division

Page 5

Incident ID	
District RP	
Facility ID	
Application ID	

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: _____

Form C-141

Page 6

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Chad Snell Title: HSE TECHSignature:  Date: 11/4/2019email: csnell@enduringresources.com Telephone: (505)444-0586**OCD Only**

Received by: _____ Date: _____

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

Closure Approved by: **DENIED** Date: _____

Printed Name: _____ Title: _____

*Incomplete C-141, Operator requesting Deferral, needs to Sign Remediation Plan Page

*Cannot grant deferral if site is not fully delineated, Oct 21, sampling event show multiple Zones over closure standards no sampling event after showing delineation.

Remediation Plan

Remediation Technique

Enduring Resources, LLC (Enduring) proposes to remediate the chloride levels above 600 mg/kg in the top four (4) feet of soil outside of the equipment containment area using excavation and removal of impacted soil above 600 mg/kg of chlorides. Enduring is proposing to defer remediation of chloride impacted soil in the top four (4) feet of soil beneath the production equipment berm to the plugging and abandoning of the well location due to the fact that remediation of the chloride impacts would adversely impact the production of this location.

Scaled Sitemap

A Scaled Sitemap is attached to this report, and the GPS coordinates of each soil boring are presented in the boring logs attached to this report; see attached *Site Map* and *Boring Logs*.

Estimated Volume

Based on the surficial nature of the impacts on the well pad not beneath the production equipment, an estimated volume of 150 cubic yards is expected to be removed during excavation activities.

Closure Criteria

Table I Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 50 feet	Chloride***	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
>100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Remediation Schedule

Excavation activities for areas on the well pad are scheduled to begin on 8/21/2019. Impacts beneath on-site production equipment will be deferred to the plugging and abandoning of this well location.

Once excavation activities have been conducted on all impacted areas not beneath on-site production equipment and liners, notification will be made to the NMOCD, and final closure sampling

will be conducted on the site to confirm levels of chlorides are below 600 mg/kg in areas that are not beneath current production equipment and liners.

Remediation Narrative

On 8/21/2019 the Initial C-141 with Remediation plan and Site Assessment was submitted to the NMOCD. Clean-up activities also began on impacted areas not beneath production equipment. Areas included the "Back Side" of containment, south of the containment (Hole 1 and 2) the "Front Section" and "Under the Meter". Areas that could not be reached with a back hoe (Hole 1,2 and Under the Meter) were excavated using hand shovels. A few inches of impacted soil was scrapped up from the surface and approximately 50 cu yards of soil was removed. Preliminary samples were taken to see if all impacted soil was removed. Samples showed elevated results in chlorides and further excavation was needed.

On 8/27/2019 further excavation continued, removing approximately 50 cu yards of impacted soil. The areas were excavated between 6 inches to 1 foot in depth. Soil under the meter was delineated to Table 1 standard and was not excavated any further due to difficulty removing soil and not wanting to lose production by moving meter. Another set of preliminary samples were taken which still showed elevated results with chlorides in the top four feet.

Further excavation continued on 9/5/2019 removing another foot of impacted soil. Chlorides still showed elevated results in excavation areas.

On 9/16/2019 excavation activities resumed taking out another foot of impacted soil. Excavation areas were approximately 3 feet in depth. Preliminary samples still showed high chlorides above standards in the top four feet (600mg/kg) but below Table 1 standards.

On 9/25/2019 impacted areas that were not below production equipment (Hole 1, 2 and Backside) were excavated to the depth of 4 feet. A total of approximately 350 cu yards of impacted soil was removed over the course of remediation activities.

Email notification was sent on 10/17/2019 to Cory Smith of the NMOCD and Abiodun Emmanuel Adeloye of the BLM that sampling activities would be performed on Monday October 21st 2019.

Sampling activities took place on 10/21/2019 with Cory Smith of the NMOCD onsite to witness. A total of 27 composite samples were taken from the excavated area. All samples taken met the Table 1 standards for this site but in some areas did not meet the closure of 600mg/kg in the top four feet and remediation will occur at final reclamation of the well site. Please see attached "Sample Results Table" and "Sample Map" for reference.

Samples taken under the liner and production equipment on 8/13/2019 returned all below Table 1 standards of 20,000mg/kg Chlorides but were above the 600mg/kg Chlorides in the top four feet so remediation of impacted area will occur at the time of final reclamation.

Site Assessment/Characterization

On 8/12/2019, samples for initial characterization were collected from the site using a hand auger. Samples were collected from four (4) boreholes inside the production equipment berm area, and from the excavated area where the line release occurred. Four (4) additional samples were collected from the surface area outside of the production equipment berm area where the produced water seeped out from beneath the liner.

Boreholes 1, 2 and 4 were advanced to depths of 2.5 feet, while borehole 3 was advanced to a depth of 4 feet; see attached *Boring Logs* and *Field Notes*. The subsurface soil consisted of a brown, damp, dense clay from the surface all the way to the bottom of the boring. No hydrocarbon odor was detected in any of the samples collected during assessment activities. Two (2) additional samples were collected from the excavated area around the produced water line from six (6) inches below ground surface, and five (5) feet below ground surface; see attached *Boring Logs* and *Field Notes*. Additionally, the two (2) areas where the produced water seeped out from beneath the liner were separated into two (2) sections each. The Sections were separated into Surface Front Sections 1 & 2, and Surface Back Sections 1 & 2. All samples were analyzed for TPH (DRO, GRO and DRO) via USEPA Method 8015, benzene and BTEX via USEPA Method 8021, and for Chlorides via USEPA Method 9056A.

Based on the depth to groundwater determined using the cathodic well drilled on location in 2015, the least stringent Table I standards are applicable for this location. All samples returned results below the Table I standards for TPH, benzene, total BTEX and chlorides; see attached *S Chaco Unit 342H Sample Results Table*. However, chloride levels were above 600 mg/kg in the top four (4) feet, requiring remediation for reclamation purposes.



Enduring Resources, LLC
Spill Closure Report
S Chaco Unit 342H

Photo 1: View of Surface Back Section of Release

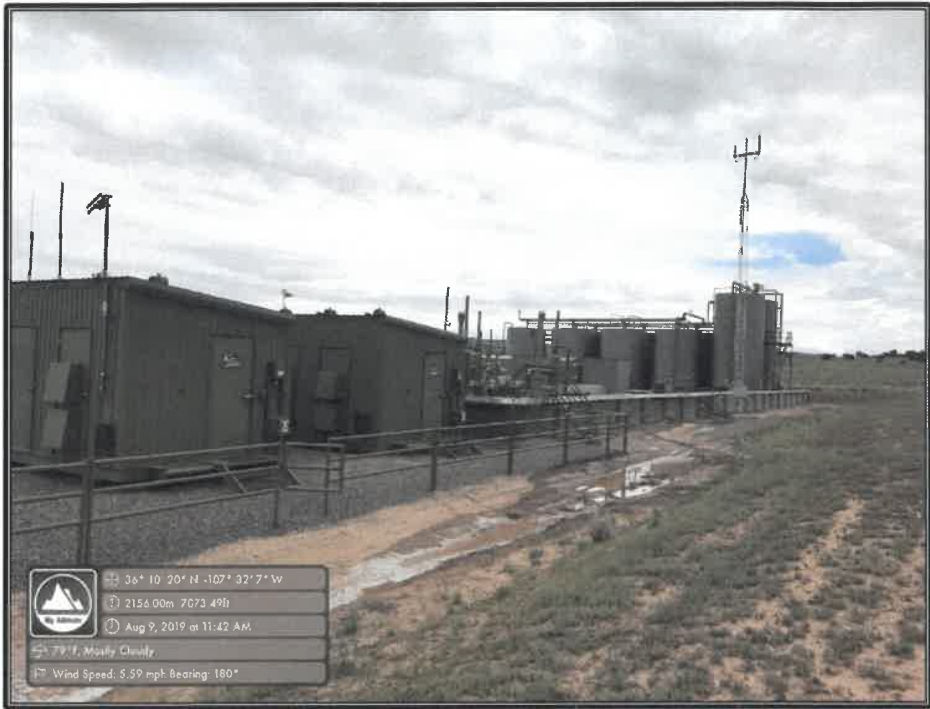


Photo 2: Front Section of Release (View 2)





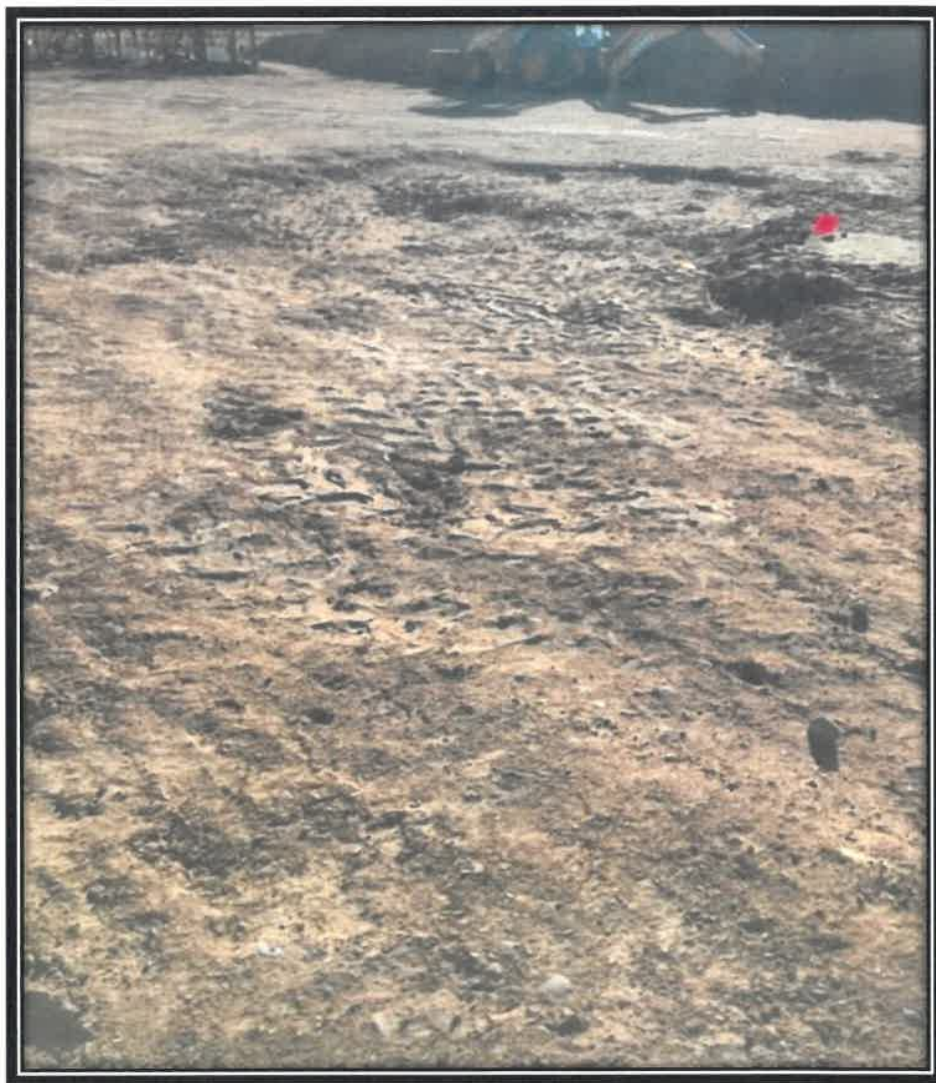
Enduring Resources, LLC
Spill Closure Report
S Chaco Unit 342H

Photo: Front Section after Excavation





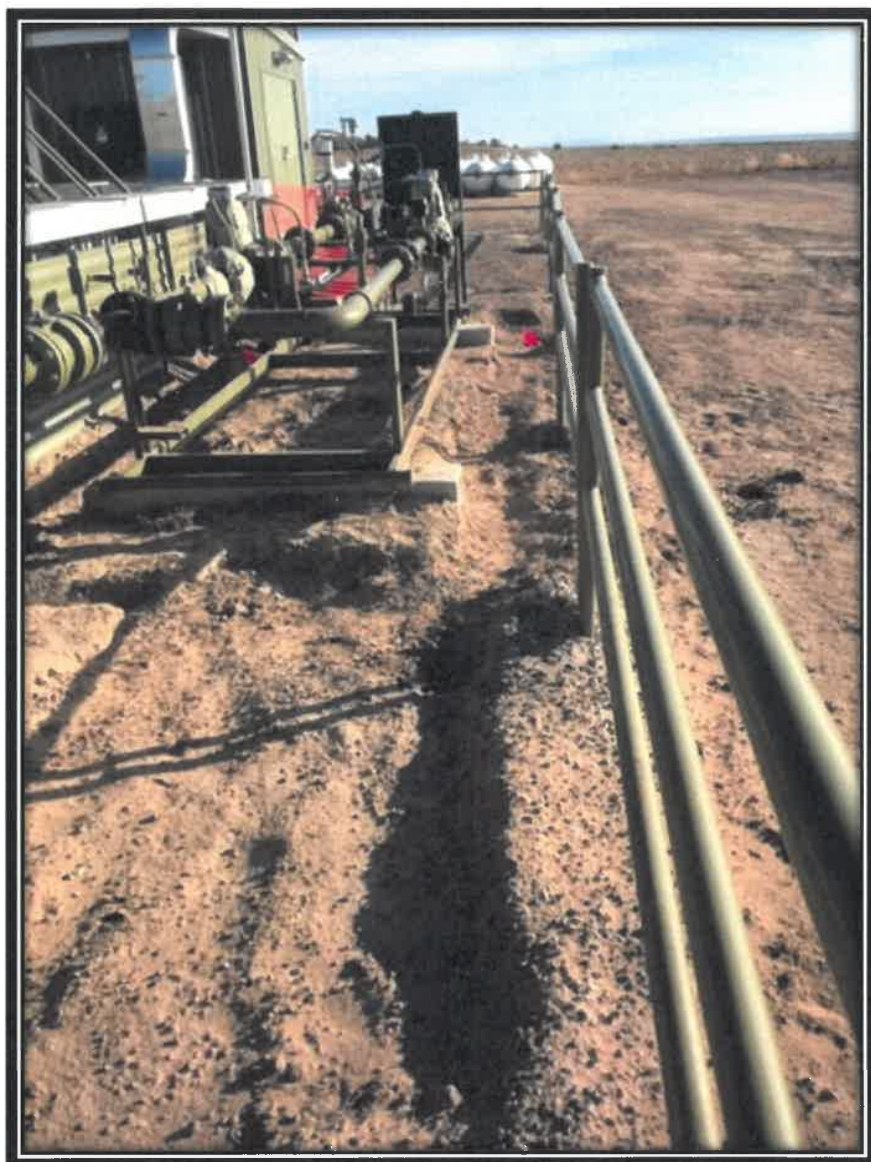
Enduring Resources, LLC
Spill Closure Report
S Chaco Unit 342H





Enduring Resources, LLC
Spill Closure Report
S Chaco Unit 342H

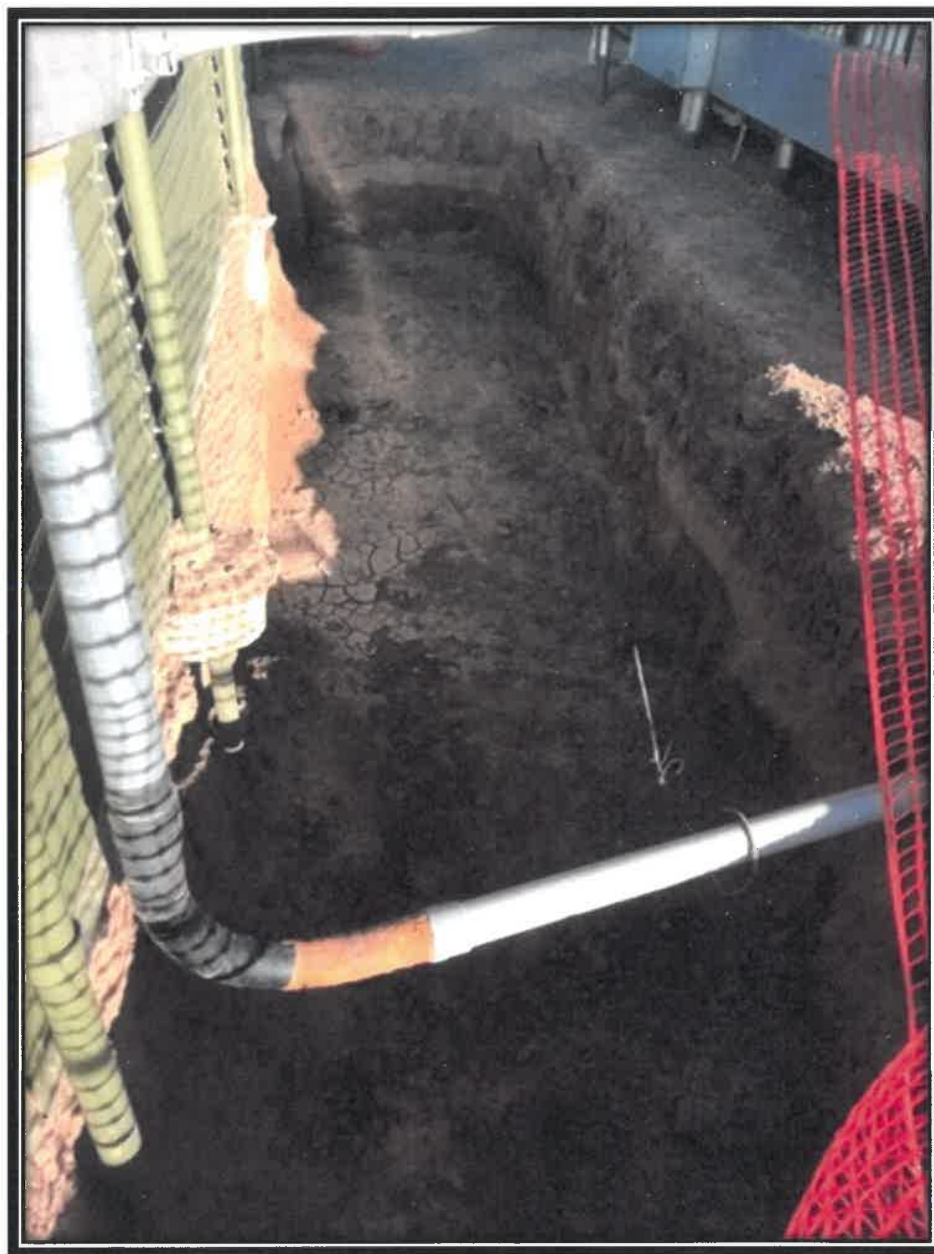
Photo: "Under Meter"





Enduring Resources, LLC
Spill Closure Report
S Chaco Unit 342H

Photo: "Hole 2"





Enduring Resources, LLC
Spill Closure Report
S Chaco Unit 342H

Photo: "Hole 1"





Enduring Resources, LLC
Spill Closure Report
S Chaco Unit 342H

Photo: "Back Section"





Enduring Resources, LLC
Spill Closure Report
S Chaco Unit 342H

Photo: "West Wall"





Enduring Resources, LLC
Spill Closure Report
S Chaco Unit 342H



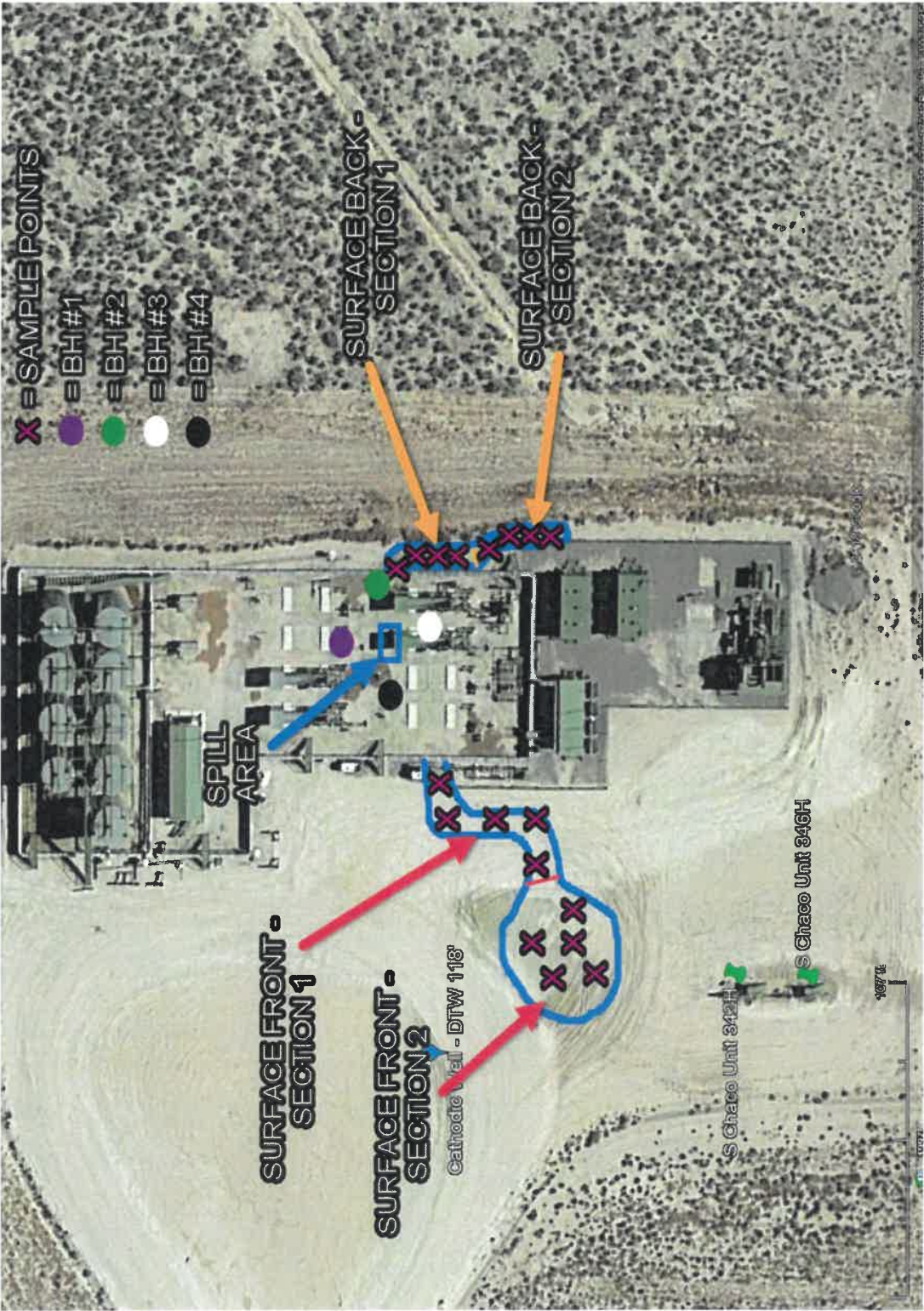


Enduring Resources, LLC
Spill Closure Report
S Chaco Unit 342H

Photo: "Back Section" and "East Wall"











ENDURING RESOURCES

ON-SITE FORM

Well Name S chaco 342H API # 30-043-21243
 Section 2 Township ZZN Range 7W County Sandoval State NM
 Contractors On-Site M&R Trucking Time On-Site 9:22 AM Time Off-Site 1:15 PM
 Spill Amount 300 bbls Spilled (Oil/Produced Water/Other) Recovered 40
 Land Use (Range / Residential / Tribe) Spill Area x x deep

Site Diagram

Sample Location

Comments

Samples

Time	Sample #	Sample Description	Characteristics	OVM (ppm)	Analysis Requested
	NA	100 Standard	NA		NA
9:55am	1	B Hole 1 0-6"	Damp Clay, Brown		
10:05am	2	B Hole 1 2-5"	"		
10:20am	3	B Hole 2 0-6"	"		
10:30am	4	B Hole 2 2-5"	Damp Clay, odd color		
10:45	5	BH 3 0-6"	Damp Clay, Brown		
10:55	6	BH 3 2-5"	"		
11:5	7	BH 4 4'	"		
11:25	8	BH 4 0-6"	"		
11:40	9	BH 4 2-5"	"		

Name (Print) _____

Date _____

Name (Signature) _____ Company _____

S Chaco Unit 342H Sampling Results

Sample Location	Date	GRO	DRO	TPH (DRO+GRO)	ORO	TPH (DRO+GRO+ORO)	Benzene	Toluene	Ethylbenzene	Xylene	BTEX	Chloride
Bore Hole 1 @ 0-6"	8/13/2019	< 0.128	< 5.11	ND	< 5.11	ND	0.00744	< 0.00639	< 0.000639	< 0.00192	0.00744	1550
Bore Hole 1 @ 2.5'	8/13/2019	< 0.125	< 4.98	ND	< 4.98	ND	< 0.000623	< 0.00623	< 0.000623	< 0.00187	ND	841
Bore Hole 2 @ 0-6"	8/13/2019	0.862	< 4.99	0.862	< 4.99	0.862	0.0927	0.0678	0.00516	0.0329	0.19856	3430
Bore Hole 2 @ 2.5'	8/13/2019	0.888	< 5.0	0.888	< 5.0	0.888	0.0209	0.0078	0.00177	0.0137	0.04417	1160
Bore Hole 3 @ 0-6"	8/13/2019	0.276	< 4.9	0.276	< 4.9	0.276	0.0176	0.00653	< 0.000612	< 0.00184	0.02413	1350
Bore Hole 3 @ 2.5'	8/13/2019	< 0.120	< 4.81	ND	< 4.81	ND	0.00765	< 0.120	< 0.000601	< 0.00180	0.00765	998
Bore Hole 3 @ 4'	8/13/2019	< 0.124	< 4.95	ND	< 4.95	ND	0.0065	< 0.00619	< 0.000619	< 0.00186	0.0065	1210
Bore Hole 4 @ 0-6"	8/13/2019	0.23	< 4.84	0.23	< 4.84	0.23	0.0197	0.0155	0.00157	0.00989	0.0466	2810
Bore Hole 4 @ 2.5'	8/13/2019	1.33	< 5.37	1.33	< 5.37	1.33	0.00596	< 0.00672	< 0.000672	0.018	0.02396	511
Surface Front Section 1 @ 0-6"	8/13/2019	< 0.112	< 4.47	ND	< 4.47	ND	< 0.000559	< 0.00559	< 0.000559	< 0.00168	ND	3670
Surface Front Section 2 @ 0-6"	8/13/2019	< 0.117	< 4.69	ND	< 4.69	ND	< 0.000586	< 0.00586	< 0.000586	< 0.00176	ND	3230
Surface Back Section 1 @ 0-6"	8/13/2019	0.53	< 5.11	0.53	< 5.11	0.53	0.00996	0.0103	0.000919	0.0308	0.051979	7570
Surface Back Section 2 @ 0-6"	8/13/2019	< 1.22	< 4.88	ND	8.52	8.52	< 0.000610	< 0.00610	< 0.000610	< 0.00183	ND	6850
Spill Area @ 0-6"	8/13/2019	5.37	8.28	13.65	5.16	18.81	0.0548	0.0693	0.0188	0.143	0.2859	1650
Spill Area @ 5'	8/13/2019	10.5	6.52	17.02	< 5.27	17.02	0.0916	0.145	0.0472	0.318	0.6018	3130
NMOCD Table 1 Standards	NA	NA	NA	1,000	NA	2,500	10	NA	NA	NA	50	20,000

S. Chaco 342H 10/21/2019

Sample Name	Description	Date	Time	DRO	GRO	DRO+	ORO	Total TPH	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	Chlorides	Square Footage
STANDARD	Ground Water >100ft	NA	NA	NA	NA	NA	NA	2500	10	NA	NA	NA	50	20,000	200 sq. ft.
Front Section 1	Composite	10/21/2019	10:40 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	419	200
Front Section 2	Composite	10/21/2019	10:45 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	936	200
Front Section 3	Composite	10/21/2019	10:50 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	619	200
Front Section 4	Composite	10/21/2019	10:55 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	172	200
Front Section 5	Composite	10/21/2019	11:00 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	147	200
Front Section 6	Composite	10/21/2019	11:05 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	224	200
Under Meter	Composite	10/21/2019	11:10 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	2610	200
Hole 2 South	Composite	10/21/2019	11:15 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	1210	230
Hole 2 North	Composite	10/21/2019	11:20 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	2190	230
Hole 1 South	Composite	10/21/2019	11:25 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	3360	178
Hole 2 North	Composite	10/21/2019	11:30 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	4100	178
Back Section 1	Composite	10/21/2019	11:35 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	121	200
Back Section 2	Composite	10/21/2019	11:40 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	158	200
Back Section 3	Composite	10/21/2019	11:45 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	290	200
Back Section 4	Composite	10/21/2019	11:50 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	165	200
Back Section 5	Composite	10/21/2019	11:55 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	1670	200
Back Section 6	Composite	10/21/2019	12:00 PM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	1770	200
Back Section 7	Composite	10/21/2019	12:05 PM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	135	200
Back Section 8	Composite	10/21/2019	12:10 PM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	2340	200
Back Section 9	Composite	10/21/2019	12:15 PM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	2220	200
Back Section 10	Composite	10/21/2019	12:20 PM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	847	200
East Wall 1	Composite	10/21/2019	12:25 PM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	506	200
East Wall 2	Composite	10/21/2019	12:30 PM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	523	200
East Wall 3	Composite	10/21/2019	12:35 PM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	ND	160
West Wall 1	Composite	10/21/2019	12:40 PM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	39.4	200
West Wall 2	Composite	10/21/2019	12:45 AM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	1290	200
West Wall 3	Composite	10/21/2019	12:45 PM	<25	<20	ND	<50	ND	<0.0250	<0.0250	<0.0250	<0.0500	ND	7350	200



ENDURING RESOURCES

Page 2

ON-SITE FORM

Well Name S Chaco Unit 342H API # 30-043-21243Section 2 Township ZZN Range 7W County Sandoval State NMContractors On-Site M&R Time On-Site _____ Time Off-Site _____

Spill Amount _____ bbls Spilled (Oil/Produced Water/Other _____) Recovered _____

Land Use (Range / Residential / Tribe _____) Spill Area _____ x _____ deep



See Page 1

Sample Location

Sample Location

Site Diagram

Comments

Samples

Time	Sample #	Sample Description	Characteristics	OVM (ppm)	Analysis Requested
	NA	100 Standard	NA		NA
12:05	10	Surface Front 0-6" Sec 1	Soft, loam, wet		
12:10	11	Surface Front 0-6" Sec 2	Soft loam, wet		
12:15	12	Surface Back 0-6" Sec 1	Soft loam, wet		
12:20	13	Surface Back 0-6" Sec 2	Soft loam, wet		
12:30	14	Spill Area 60-6"	Hard clay, damp		
12:35	15	Spill Area 60-6"	Hard clay, damp		

Name (Print)

James McDaniel

Date

8/12/19

Name (Signature)

Company

Enduring



New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)
No records found.

Basin/County Search:

Basin: San Juan

PLSS Search:

Township: 22N **Range:** 07W

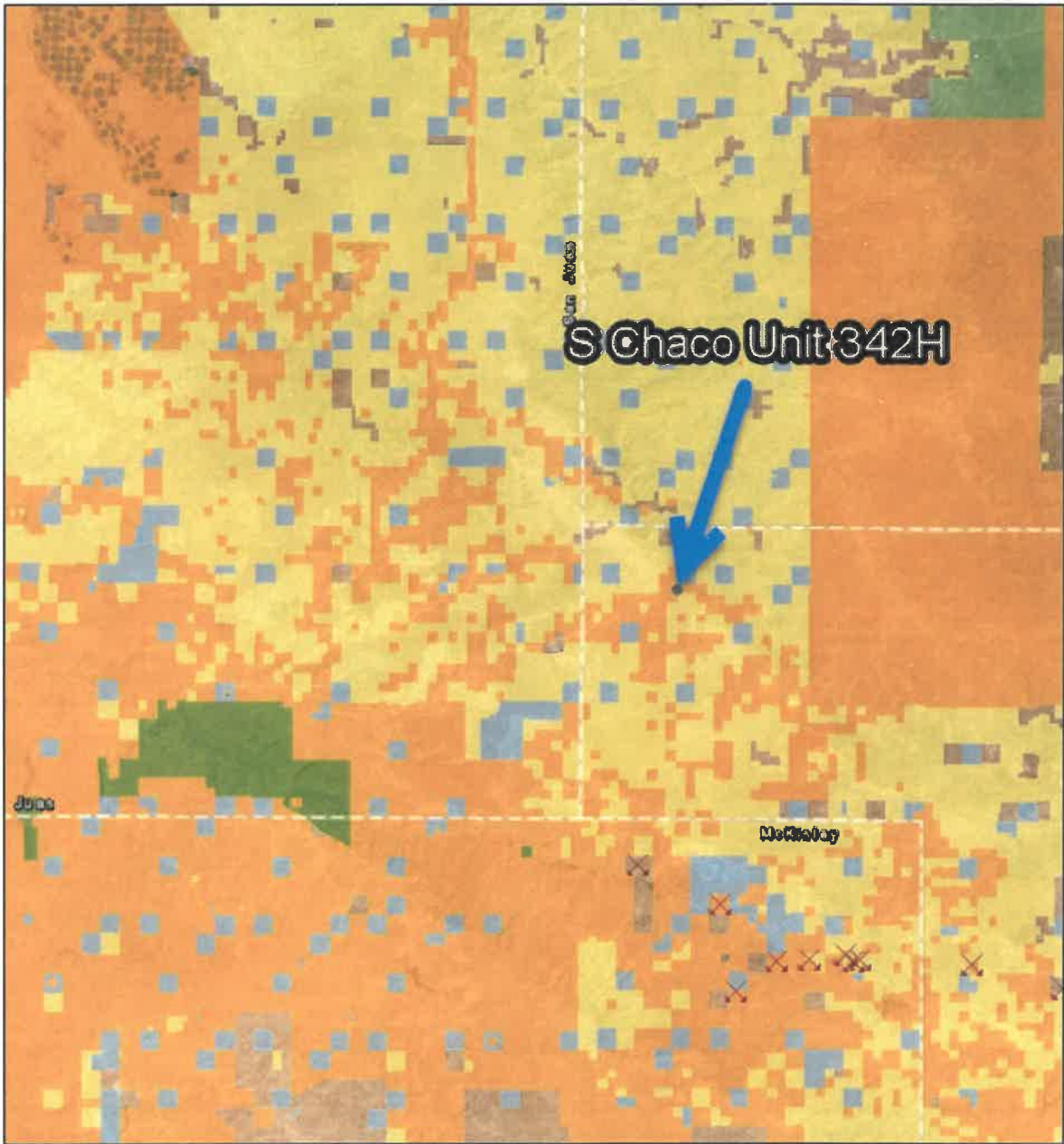
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/19/19 9:26 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER



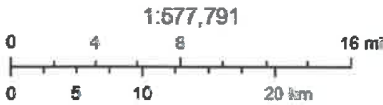
Active Mines in New Mexico



8/19/2019 9:29:22 AM

Registered Mines

✕ Humate



Esri, HERE, Garmin, U.S. Bureau of Land Management - New Mexico State Office, Earthstar Geographics

National Flood Hazard Layer FIRMette



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, AE9
	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 draining 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
	Channel, Culvert, or Storm Sewer
	Levee, Dike, or Floodwall

OTHER FEATURES

	Cross Sections with 1% Annual Chance
	Water Surface Elevation
	Coastal Transsect
	Base Flood Elevation Line (BFE)
	Limit of Study
	Jurisdiction Boundary
	Coastal Transsect 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.

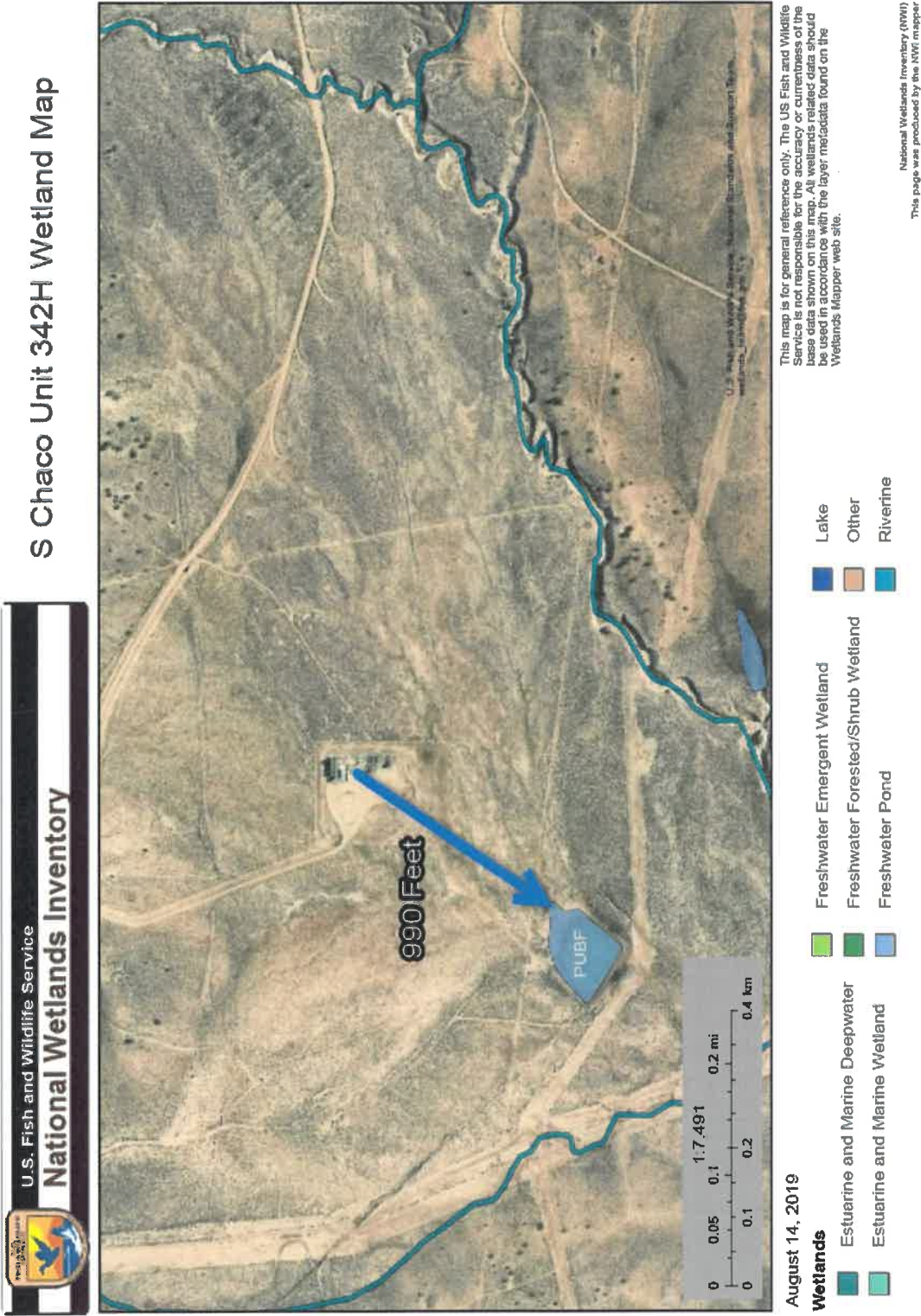


This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/14/2019 at 12:53:36 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 unmapped areas cannot be used for regulatory purposes.





Ground Bed Drilling Log

Company: WPX Energy Well: S Chaco UT #346H Date: 9/15/15
 Location: Sec 2 T22N R7W State: NM Rig: Stony #1
 Ground Bed Depth: 360' Water Depth: 120' Diameter: 10"
 Fuel: 98 gal. Latitude: 36.1724975 Longitude: -107.5355842

DEPTH**FORMATION****OTHER**

<u>0-60</u>	<u>Sand Stone, Shale, Sand w/ Shale w/ Sand</u>	<u>PVC</u>
<u>60-100</u>	<u>Sand Stone, Shale, Sand w/ Shale w/ Sand</u>	
<u>100-180</u>	<u>Sand Stone, Shale, Sand w/ Shale w/ Sand</u>	
<u>180-240</u>	<u>Sand Stone, Shale, Sand w/ Shale w/ Sand</u>	
<u>240-300</u>	<u>Sand Stone, Shale, Sand w/ Shale w/ Sand</u>	
<u>300-360</u>	<u>Sand Stone, Shale, Sand w/ Shale w/ Sand</u>	
	<u>Sand Stone, Shale, Sand w/ Shale w/ Sand</u>	
	<u>Sand Stone, Shale, Sand w/ Shale w/ Sand</u>	
	<u>Sand Stone, Shale, Sand w/ Shale w/ Sand</u>	
	<u>Sand Stone, Shale, Sand w/ Shale w/ Sand</u>	
	<u>Sand Stone, Shale, Sand w/ Shale w/ Sand</u>	

GROUNDWATER DEPTH LOG

Company: WPX Energy			Location:
Probe type:			
Date	Time	Depth	Comments
9-15-15	8 am	40'	drilled 40'
	9 am	40'	test: No water
	9:30	60'	Drilled 60'
	10:30	60'	test: No water set PVC
	11:45	115'	Drilled to 115'
	1 pm	115'	test: NO water
	2:15	120'	Drilled to 120' water
9-16-15	7:30	118'	test water @ 118'
	12:30	360'	Finish annular bed

James McDaniel

From: James McDaniel <JMcDaniel@enduringresources.com>
Sent: Friday, August 09, 2019 4:58 PM
To: Cory.Smith@state.nm.us; Brandon.Powell@state.nm.us; Jim.Griswold@state.nm.us
Cc: Andrea Felix; Tim Friesenhahn; Alex Campbell; Chad Snell; John Conley
Subject: S Chaco 342H Release

Cory,

As discussed in my phone call, please accept this email as the 24 hour notice for a release of produced water at the S Chaco 342H well location (API 30-043-21243). The release occurred from an underground flow line from the separator to the on-site water tank. The release appears to be a slow leak over the course of several days, and preliminary estimates based on water volume reports appears to be approximately 300 bbls. All water remained on the pad beneath the liner, and started to seep out from under the liner. Trucks were dispatched to collect pooled water, and assessment activities will begin Monday. Please don't hesitate to contact me with additional questions or concerns.

James McDaniel
HSE Supervisor
Enduring Resources
CSP #30009
CHMM #15676
Office: [505-636-9731](tel:505-636-9731)
Cell: [505-444-3004](tel:505-444-3004)
jmcdaniel@enduringresources.com

Chad Snell

From: Chad Snell
Sent: Thursday, October 17, 2019 7:58 AM
To: 'Smith, Cory, EMNRD'; 'aadeloye@blm.gov'
Cc: James McDaniel
Subject: S. Chaco 342H Closure Sampling

Good Morning Gentlemen,

Please accept this email as the required 48 hour notice for closure sampling activities to take place at the S. Chaco 342H. Closure sampling will take place on Monday October 21st 2019 beginning at 10:30 am. There are areas of this release that Enduring would like to propose to defer during this time due to the fact that remediation of chloride impacts would adversely impact production of this location. Areas of the release that were not around production equipment has been remediated. Please let me know if you can make it. Also don't hesitate to contact James or myself for any questions.

Thanks.

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



Analytical Report

Report Summary

Client: Enduring Resources, LLC

Samples Received: 10/22/2019

Job Number: 17065-0017

Work Order: P910134

Project Name/Location: S. Chaco 342H

Report Reviewed By:

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

Date: 10/24/19

Walter Hinchman, Laboratory Director

Supplement to analytical report generated on: 10/24/19 12:41 pm



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, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



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

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Front Sec 1	P910134-01A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Front Sec 2	P910134-02A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Front Sec 3	P910134-03A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Front Sec 4	P910134-04A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Front Sec 5	P910134-05A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Front Sec 6	P910134-06A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Under Meter	P910134-07A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Hole 2 South	P910134-08A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Hole 2 North	P910134-09A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Hole 1 South	P910134-10A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Hole 1 North	P910134-11A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Back Sec 1	P910134-12A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Back Sec 2	P910134-13A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Back Sec 3	P910134-14A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Back Sec 4	P910134-15A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Back Sec 5	P910134-16A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Back Sec 6	P910134-17A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Back Sec 7	P910134-18A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Back Sec 8	P910134-19A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Back Sec 9	P910134-20A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
Back Sec 10	P910134-21A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
East Wall 1	P910134-22A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
East Wall 2	P910134-23A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
East Wall 3	P910134-24A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
West Wall 1	P910134-25A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
West Wall 2	P910134-26A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.
West Wall 3	P910134-27A	Soil	10/21/19	10/22/19	Glass Jar, 4 oz.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



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

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

Front Sec 1
P910134-01 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	1943011	10/22/19	10/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		105 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %		50-150	1943011	10/22/19	10/23/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	419	20.0	mg/kg	1	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: S. Chaco 342H Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/24/19 15:20
---	--	-----------------------------

**Front Sec 2
P910134-02 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		91.4 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		97.5 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		81.0 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	936	20.0	mg/kg	1	1943012	10/22/19	10/22/19	EPA 300.0/9056A	
----------	-----	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: S. Chaco 342H Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/24/19 15:20
---	--	-----------------------------

**Front Sec 3
P910134-03 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		91.5 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		108 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		79.4 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	619	20.0	mg/kg	1	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: S. Chaco 342H Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/24/19 15:20
---	--	-----------------------------

**Front Sec 4
P910134-04 (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	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		90.3 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
<u>Nonhalogenated Organics by 8015 - DRO/ORO</u>									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		100 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
<u>Nonhalogenated Organics by 8015 - GRO</u>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		79.9 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
<u>Anions by 300.0/9056A</u>									
Chloride	172	20.0	mg/kg	1	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: S. Chaco 342H Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/24/19 15:20
---	--	-----------------------------

**Front Sec 5
P910134-05 (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	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		92.9 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
<u>Nonhalogenated Organics by 8015 - DRO/ORO</u>									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		106 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
<u>Nonhalogenated Organics by 8015 - GRO</u>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		80.4 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
<u>Anions by 300.0/9056A</u>									
Chloride	147	20.0	mg/kg	1	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: S. Chaco 342H Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/24/19 15:20
---	--	-----------------------------

**Front Sec 6
P910134-06 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatiles Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		92.1 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		106 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.0 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	224	20.0	mg/kg	1	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: S. Chaco 342H Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/24/19 15:20
---	--	-----------------------------

**Under Meter
P910134-07 (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	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		92.1 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
<u>Nonhalogenated Organics by 8015 - DRO/ORO</u>									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		108 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
<u>Nonhalogenated Organics by 8015 - GRO</u>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		81.2 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
<u>Anions by 300.0/9056A</u>									
Chloride	2610	40.0	mg/kg	2	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



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

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

Hole 2 South
P910134-08 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		105 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.6 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1210	20.0	mg/kg	1	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: S. Chaco 342H Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/24/19 15:20
---	--	-----------------------------

**Hole 2 North
P910134-09 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		101 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.4 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	2190	20.0	mg/kg	1	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



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

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

Hole 1 South
P910134-10 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		97.6 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.6 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	3360	40.0	mg/kg	2	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: S. Chaco 342H Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/24/19 15:20
---	--	-----------------------------

**Hole 1 North
P910134-11 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		98.1 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.9 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	4100	40.0	mg/kg	2	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Enduring Resources, LLC	Project Name:	S. Chaco 342H	Reported: 10/24/19 15:20
511 16th Street, Suite 700	Project Number:	17065-0017	
Denver CO, 80202	Project Manager:	Chad Snell	

Back Sec 1
P910134-12 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		105 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.1 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	121	20.0	mg/kg	1	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: S. Chaco 342H Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/24/19 15:20
---	--	-----------------------------

**Back Sec 2
P910134-13 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		106 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.2 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	158	20.0	mg/kg	1	1943012	10/22/19	10/22/19	EPA 300.0/9056A	
----------	-----	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: S. Chaco 342H Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/24/19 15:20
---	--	-----------------------------

**Back Sec 3
P910134-14 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		105 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.8 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	290	20.0	mg/kg	1	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: S. Chaco 342H Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/24/19 15:20
---	--	-----------------------------

**Back Sec 4
P910134-15 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		105 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	165	20.0	mg/kg	1	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



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

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

Back Sec 5
P910134-16 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		101 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.2 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1670	20.0	mg/kg	1	1943012	10/22/19	10/22/19	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



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

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

Back Sec 6
P910134-17 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		108 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.3 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1770	20.0	mg/kg	1	1943012	10/22/19	10/23/19	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Enduring Resources, LLC	Project Name:	S. Chaco 342H	
511 16th Street, Suite 700	Project Number:	17065-0017	Reported:
Denver CO, 80202	Project Manager:	Chad Snell	10/24/19 15:20

Back Sec 7
P910134-18 (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	1943011	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %		50-150	1943011	10/22/19	10/22/19	EPA 8021B	
<u>Nonhalogenated Organics by 8015 - DRO/ORO</u>									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/22/19	EPA 8015D	
Surrogate: n-Nonane		107 %		50-200	1943015	10/22/19	10/22/19	EPA 8015D	
<u>Nonhalogenated Organics by 8015 - GRO</u>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.7 %		50-150	1943011	10/22/19	10/22/19	EPA 8015D	
<u>Anions by 300.0/9056A</u>									
Chloride	135	20.0	mg/kg	1	1943012	10/22/19	10/23/19	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



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

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

**Back Sec 8
P910134-19 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %		50-150	1943011	10/22/19	10/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/23/19	EPA 8015D	
Surrogate: n-Nonane		101 %		50-200	1943015	10/22/19	10/23/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.8 %		50-150	1943011	10/22/19	10/23/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	2340	40.0	mg/kg	2	1943012	10/22/19	10/23/19	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



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

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

Back Sec 9
P910134-20 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	1943011	10/22/19	10/23/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943015	10/22/19	10/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943015	10/22/19	10/23/19	EPA 8015D	
Surrogate: n-Nonane		108 %		50-200	1943015	10/22/19	10/23/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943011	10/22/19	10/23/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.4 %		50-150	1943011	10/22/19	10/23/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	2220	20.0	mg/kg	1	1943012	10/22/19	10/23/19	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: S. Chaco 342H Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/24/19 15:20
---	--	-----------------------------

**Back Sec 10
P910134-21 (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	1943014	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1943014	10/22/19	10/22/19	EPA 8021B	
<u>Nonhalogenated Organics by 8015 - DRO/ORO</u>									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943016	10/22/19	10/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943016	10/22/19	10/23/19	EPA 8015D	
Surrogate: n-Nonane		110 %		50-200	1943016	10/22/19	10/23/19	EPA 8015D	
<u>Nonhalogenated Organics by 8015 - GRO</u>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %		50-150	1943014	10/22/19	10/22/19	EPA 8015D	
<u>Anions by 300.0/9056A</u>									
Chloride	847	20.0	mg/kg	1	1943013	10/22/19	10/22/19	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



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

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

East Wall 1
P910134-22 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1943014	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943016	10/22/19	10/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943016	10/22/19	10/23/19	EPA 8015D	
Surrogate: n-Nonane		107 %		50-200	1943016	10/22/19	10/23/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.6 %		50-150	1943014	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	506	20.0	mg/kg	1	1943013	10/22/19	10/22/19	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: S. Chaco 342H Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/24/19 15:20
---	--	-----------------------------

**East Wall 2
P910134-23 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.8 %		50-150	1943014	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943016	10/22/19	10/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943016	10/22/19	10/23/19	EPA 8015D	
Surrogate: n-Nonane		110 %		50-200	1943016	10/22/19	10/23/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.9 %		50-150	1943014	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	523	20.0	mg/kg	1	1943013	10/22/19	10/22/19	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



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

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

**East Wall 3
P910134-24 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatiles Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %		50-150	1943014	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943016	10/22/19	10/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943016	10/22/19	10/23/19	EPA 8015D	
Surrogate: n-Nonane		102 %		50-200	1943016	10/22/19	10/23/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.7 %		50-150	1943014	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1943013	10/22/19	10/22/19	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



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

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

**West Wall 1
P910134-25 (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	1943014	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.8 %		50-150	1943014	10/22/19	10/22/19	EPA 8021B	
<u>Nonhalogenated Organics by 8015 - DRO/ORO</u>									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943016	10/22/19	10/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943016	10/22/19	10/23/19	EPA 8015D	
Surrogate: n-Nonane		99.1 %		50-200	1943016	10/22/19	10/23/19	EPA 8015D	
<u>Nonhalogenated Organics by 8015 - GRO</u>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.5 %		50-150	1943014	10/22/19	10/22/19	EPA 8015D	
<u>Anions by 300.0/9056A</u>									
Chloride	39.4	20.0	mg/kg	1	1943013	10/22/19	10/22/19	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



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

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

**West Wall 2
P910134-26 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	1943014	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943016	10/22/19	10/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943016	10/22/19	10/23/19	EPA 8015D	
Surrogate: n-Nonane		107 %		50-200	1943016	10/22/19	10/23/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.4 %		50-150	1943014	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1290	20.0	mg/kg	1	1943013	10/22/19	10/22/19	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Enduring Resources, LLC	Project Name:	S. Chaco 342H	Reported: 10/24/19 15:20
511 16th Street, Suite 700	Project Number:	17065-0017	
Denver CO, 80202	Project Manager:	Chad Snell	

**West Wall 3
P910134-27 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1943014	10/22/19	10/22/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943016	10/22/19	10/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943016	10/22/19	10/23/19	EPA 8015D	
Surrogate: n-Nonane		110 %		50-200	1943016	10/22/19	10/23/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943014	10/22/19	10/22/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %		50-150	1943014	10/22/19	10/22/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	7350	100	mg/kg	5	1943013	10/22/19	10/22/19	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



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

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1943011 - Purge and Trap EPA 5030A

Blank (1943011-BLK1)

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

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 8.28 " 8.00 104 50-150

LCS (1943011-BS1)

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

Benzene	4.62	0.0250	mg/kg	5.00		92.4	70-130			
Toluene	4.78	0.0250	"	5.00		95.7	70-130			
Ethylbenzene	4.71	0.0250	"	5.00		94.3	70-130			
p,m-Xylene	9.40	0.0500	"	10.0		94.0	70-130			
o-Xylene	4.73	0.0250	"	5.00		94.6	70-130			
Total Xylenes	14.1	0.0250	"	15.0		94.2	70-130			

Surrogate: 4-Bromochlorobenzene-PID 8.35 " 8.00 104 50-150

Matrix Spike (1943011-MS1)

Source: P910134-01

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

Benzene	4.75	0.0250	mg/kg	5.00	ND	95.0	54.3-133			
Toluene	4.91	0.0250	"	5.00	ND	98.3	61.4-130			
Ethylbenzene	4.87	0.0250	"	5.00	ND	97.4	61.4-133			
p,m-Xylene	9.70	0.0500	"	10.0	ND	97.0	63.3-131			
o-Xylene	4.88	0.0250	"	5.00	ND	97.6	63.3-131			
Total Xylenes	14.6	0.0250	"	15.0	ND	97.2	63.3-131			

Surrogate: 4-Bromochlorobenzene-PID 8.41 " 8.00 105 50-150

Matrix Spike Dup (1943011-MSD1)

Source: P910134-01

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

Benzene	4.64	0.0250	mg/kg	5.00	ND	92.8	54.3-133	2.40	20	
Toluene	4.84	0.0250	"	5.00	ND	96.8	61.4-130	1.51	20	
Ethylbenzene	4.81	0.0250	"	5.00	ND	96.1	61.4-133	1.31	20	
p,m-Xylene	9.57	0.0500	"	10.0	ND	95.7	63.3-131	1.31	20	
o-Xylene	4.81	0.0250	"	5.00	ND	96.3	63.3-131	1.34	20	
Total Xylenes	14.4	0.0250	"	15.0	ND	95.9	63.3-131	1.32	20	

Surrogate: 4-Bromochlorobenzene-PID 8.39 " 8.00 105 50-150

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: S. Chaco 342H Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 10/24/19 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1943014 - Purge and Trap EPA 5030A

Blank (1943014-BLK1)

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

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	8.39		"	8.00		105	50-150			

LCS (1943014-BS1)

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

Benzene	4.77	0.0250	mg/kg	5.00		95.4	70-130			
Toluene	4.91	0.0250	"	5.00		98.3	70-130			
Ethylbenzene	4.85	0.0250	"	5.00		97.1	70-130			
p,m-Xylene	9.66	0.0500	"	10.0		96.6	70-130			
o-Xylene	4.88	0.0250	"	5.00		97.5	70-130			
Total Xylenes	14.5	0.0250	"	15.0		96.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.51		"	8.00		106	50-150			

Matrix Spike (1943014-MS1)

Source: P910134-21

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

Benzene	4.73	0.0250	mg/kg	5.00	ND	94.7	54.3-133			
Toluene	4.88	0.0250	"	5.00	ND	97.6	61.4-130			
Ethylbenzene	4.81	0.0250	"	5.00	ND	96.3	61.4-133			
p,m-Xylene	9.57	0.0500	"	10.0	ND	95.7	63.3-131			
o-Xylene	4.82	0.0250	"	5.00	ND	96.5	63.3-131			
Total Xylenes	14.4	0.0250	"	15.0	ND	96.0	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8.38		"	8.00		105	50-150			

Matrix Spike Dup (1943014-MSD1)

Source: P910134-21

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

Benzene	4.76	0.0250	mg/kg	5.00	ND	95.3	54.3-133	0.604	20	
Toluene	4.89	0.0250	"	5.00	ND	97.7	61.4-130	0.153	20	
Ethylbenzene	4.85	0.0250	"	5.00	ND	97.0	61.4-133	0.755	20	
p,m-Xylene	9.64	0.0500	"	10.0	ND	96.4	63.3-131	0.779	20	
o-Xylene	4.85	0.0250	"	5.00	ND	97.0	63.3-131	0.564	20	
Total Xylenes	14.5	0.0250	"	15.0	ND	96.6	63.3-131	0.707	20	
Surrogate: 4-Bromochlorobenzene-PID	8.40		"	8.00		105	50-150			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Enduring Resources, LLC	Project Name:	S. Chaco 342H	Reported: 10/24/19 15:20
511 16th Street, Suite 700	Project Number:	17065-0017	
Denver CO, 80202	Project Manager:	Chad Snell	

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1943015 - DRO Extraction EPA 3570										
Blank (1943015-BLK1)				Prepared: 10/22/19 1 Analyzed: 10/23/19 0						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	58.0		"	50.0		116	50-200			
LCS (1943015-BS1)				Prepared: 10/22/19 1 Analyzed: 10/23/19 0						
Diesel Range Organics (C10-C28)	431	25.0	mg/kg	500		86.3	38-132			
Surrogate: n-Nonane	49.7		"	50.0		99.4	50-200			
Matrix Spike (1943015-MS1)				Source: P910134-01		Prepared: 10/22/19 1 Analyzed: 10/23/19 0				
Diesel Range Organics (C10-C28)	516	25.0	mg/kg	500	ND	103	38-132			
Surrogate: n-Nonane	53.9		"	50.0		108	50-200			
Matrix Spike Dup (1943015-MSD1)				Source: P910134-01		Prepared: 10/22/19 1 Analyzed: 10/23/19 0				
Diesel Range Organics (C10-C28)	530	25.0	mg/kg	500	ND	106	38-132	2.63	20	
Surrogate: n-Nonane	55.4		"	50.0		111	50-200			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Enduring Resources, LLC	Project Name:	S. Chaco 342H	Reported: 10/24/19 15:20
511 16th Street, Suite 700	Project Number:	17065-0017	
Denver CO, 80202	Project Manager:	Chad Snell	

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1943016 - DRO Extraction EPA 3570

Blank (1943016-BLK1)

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	54.8		"	50.0		110	50-200			

LCS (1943016-BS1)

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

Diesel Range Organics (C10-C28)	514	25.0	mg/kg	500		103	38-132			
Surrogate: n-Nonane	54.6		"	50.0		109	50-200			

Matrix Spike (1943016-MS1)

Source: P910134-21

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

Diesel Range Organics (C10-C28)	538	25.0	mg/kg	500	ND	108	38-132			
Surrogate: n-Nonane	56.6		"	50.0		113	50-200			

Matrix Spike Dup (1943016-MSD1)

Source: P910134-21

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

Diesel Range Organics (C10-C28)	495	25.0	mg/kg	500	ND	99.0	38-132	8.31	20	
Surrogate: n-Nonane	55.5		"	50.0		111	50-200			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Enduring Resources, LLC	Project Name:	S. Chaco 342H	Reported: 10/24/19 15:20
511 16th Street, Suite 700	Project Number:	17065-0017	
Denver CO, 80202	Project Manager:	Chad Snell	

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
Batch 1943011 - Purge and Trap EPA 5030A										
Blank (1943011-BLK1)				Prepared: 10/22/19 1 Analyzed: 10/23/19 0						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		"	8.00		92.2	50-150			
LCS (1943011-BS2)				Prepared: 10/22/19 1 Analyzed: 10/23/19 0						
Gasoline Range Organics (C6-C10)	47.2	20.0	mg/kg	50.0		94.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		"	8.00		92.9	50-150			
Matrix Spike (1943011-MS2)				Source: P910134-01		Prepared: 10/22/19 1 Analyzed: 10/23/19 0				
Gasoline Range Organics (C6-C10)	46.1	20.0	mg/kg	50.0	ND	92.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		"	8.00		92.9	50-150			
Matrix Spike Dup (1943011-MSD2)				Source: P910134-01		Prepared: 10/22/19 1 Analyzed: 10/23/19 0				
Gasoline Range Organics (C6-C10)	47.2	20.0	mg/kg	50.0	ND	94.3	70-130	2.36	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		"	8.00		92.2	50-150			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Enduring Resources, LLC	Project Name:	S. Chaco 342H	Reported: 10/24/19 15:20
511 16th Street, Suite 700	Project Number:	17065-0017	
Denver CO, 80202	Project Manager:	Chad Snell	

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
Batch 1943014 - Purge and Trap EPA 5030A										
Blank (1943014-BLK1)				Prepared: 10/22/19 1 Analyzed: 10/23/19 0						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		"	8.00		90.5	50-150			
LCS (1943014-BS2)				Prepared: 10/22/19 1 Analyzed: 10/23/19 0						
Gasoline Range Organics (C6-C10)	46.1	20.0	mg/kg	50.0		92.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		"	8.00		92.2	50-150			
Matrix Spike (1943014-MS2)				Source: P910134-21		Prepared: 10/22/19 1 Analyzed: 10/23/19 1				
Gasoline Range Organics (C6-C10)	45.6	20.0	mg/kg	50.0	ND	91.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		"	8.00		91.4	50-150			
Matrix Spike Dup (1943014-MSD2)				Source: P910134-21		Prepared: 10/22/19 1 Analyzed: 10/23/19 1				
Gasoline Range Organics (C6-C10)	46.1	20.0	mg/kg	50.0	ND	92.2	70-130	1.18	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		"	8.00		91.6	50-150			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Enduring Resources, LLC	Project Name:	S. Chaco 342H	Reported: 10/24/19 15:20
511 16th Street, Suite 700	Project Number:	17065-0017	
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
Batch 1943012 - Anion Extraction EPA 300.0/9056A										
Blank (1943012-BLK1)				Prepared & Analyzed: 10/22/19 1						
Chloride	ND	20.0	mg/kg							
LCS (1943012-BS1)				Prepared & Analyzed: 10/22/19 1						
Chloride	257	20.0	mg/kg	250		103	90-110			
Matrix Spike (1943012-MS1)				Source: P910134-01		Prepared & Analyzed: 10/22/19 1				
Chloride	558	20.0	mg/kg	250	419	55.7	80-120			M2
Matrix Spike Dup (1943012-MSD1)				Source: P910134-01		Prepared & Analyzed: 10/22/19 1				
Chloride	662	20.0	mg/kg	250	419	97.1	80-120	17.0	20	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Enduring Resources, LLC	Project Name:	S. Chaco 342H	Reported: 10/24/19 15:20
511 16th Street, Suite 700	Project Number:	17065-0017	
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
Batch 1943013 - Anion Extraction EPA 300.0/9056A										
Blank (1943013-BLK1)				Prepared & Analyzed: 10/22/19 1						
Chloride	ND	20.0	mg/kg							
LCS (1943013-BS1)				Prepared & Analyzed: 10/22/19 1						
Chloride	271	20.0	mg/kg	250		109	90-110			
Matrix Spike (1943013-MS1)				Source: P910134-21 Prepared & Analyzed: 10/22/19 1						
Chloride	1120	20.0	mg/kg	250	847	110	80-120			
Matrix Spike Dup (1943013-MSD1)				Source: P910134-21 Prepared & Analyzed: 10/22/19 1						
Chloride	1110	20.0	mg/kg	250	847	107	80-120	0.833	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.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



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

Project Name: S. Chaco 342H
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
10/24/19 15:20

Notes and Definitions

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

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

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

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

24 Hour Emergency Response Phone (800) 362-1879

envirotech-inc.com

Labadmin@envirotech-inc.com

Project Information

Chain of Custody

Page 1 of 3

Client: <u>Enduring Resources</u> Project: <u>S. Chico 34LH</u> Project Manager: <u>Chad Small</u> Address: <u>700 Energy Court</u> City, State, Zip: <u>Farmington, NM 87401</u> Phone: <u>(505) 444-0586</u> Email: <u>CSmall@EnduringResources.com</u> <u>immediate@enduringresources.com</u>					Report Attention Report due by: _____ Attention: _____ Address: _____ City, State, Zip: _____ Phone: _____ Email: _____					Lab Use Only Lab WO# <u>P910134</u> Job Number <u>170605-0017</u> Analysis and Method DRD/CRO by 8015 <input checked="" type="checkbox"/> GRC/CRO by 8015 <input checked="" type="checkbox"/> BTEX by 8021 <input checked="" type="checkbox"/> VOC by 8260 <input checked="" type="checkbox"/> Metals 6010 <input checked="" type="checkbox"/> Chloride 300.0 <input checked="" type="checkbox"/>					TAT 1D <input checked="" type="checkbox"/> 3D <input type="checkbox"/>		EPA Program RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/>		
										State NM <input type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/>		TX <input type="checkbox"/> OK <input type="checkbox"/>							
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRD/CRO by 8015	GRC/CRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	Remarks							
10:40am	10-22-19	S	1	Front Sec 1	1	X	X	X		X									
10:45			1	Front Sec 2	2	X	X	X		X									
10:50			1	Front Sec 3	3	X	X	X		X									
10:55			1	Front Sec 4	4	X	X	X		X									
11:00			1	Front Sec 5	5	X	X	X		X									
11:05			1	Front Sec 6	6	X	X	X		X									
11:10			1	Under meter	7	X	X	X		X									
11:15			1	Hole 2 South	8	X	X	X		X									
11:20			1	Hole 2 North	9	X	X	X		X									
11:25			1	Hole 1 South	10	X	X	X		X									
Additional Instructions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Chad Small</u> <u>10-22-19</u>										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			


 5799 US Highway 64, Farmington, NM 87401
 24 Hour Emergency Response Phone: (505) 352-1879

Ph (505) 432-1881 Fx (505) 432-1885

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

Project Information

Chain of Custody

Page 2 of 41

Client: <u>Enduring Resources</u> Project: <u>B. Chaca 342 H</u> Project Manager: <u>Chad Smith</u> Address: <u>200 Energy Court</u> City, State, Zip: <u>Farmington, NM 87401</u> Phone: <u>(505) 444-0586</u> Email: <u>CSmith@enduringresources.com</u> <u>smcaden1@enduringresources.com</u>				Report Attention Report due by: _____ Attention: _____ Address: _____ City, State, Zip: _____ Phone: _____ Email: _____				Lab Use Only Lab WO# <u>P910134</u> Job Number <u>17065-0017</u> Analysis and Method DRO/DRO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0				TAT 1D 3D X		EPA Program RCRA CWA SDWA State: _____ NM CO UT AZ TX OK			
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	Remarks					
11:30	10-21-19	S	1	Hole 1 North	11	X	X	X		X							
11:35			1	Back Sec 1	12	X	X	X		X							
11:40			1	Back Sec 2	13	X	X	X		X							
11:45			1	Back Sec 3	14	X	X	X		X							
11:50			1	Back Sec 4	15	X	X	X		X							
11:55			1	Back Sec 5	16	X	X	X		X							
12:00			1	Back Sec 6	17	X	X	X		X							
12:05			1	Back Sec 7	18	X	X	X		X							
12:10			1	Back Sec 8	19	X	X	X		X							
12:15			1	Back Sec 9	20	X	X	X		X							
Additional Instructions: I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Chad Smith 10-22-19</u> Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only		Received on ice: <u>Y</u> / N							
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1		T2		T3					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



5795 US Highway 64, Farmington, NM 87401
 24 Hour Emergency Response Phone (505) 582-1879

Ph (505) 632-1881 Fx (505) 632-1865

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

Page 40 of 41

Project Information

Chain of Custody

Page 3 of 41

Client: <u>Enduring Resources</u> Project: <u>S. Chico 342 H</u> Project Manager: <u>Chad Small</u> Address: <u>200 Front Street</u> City, State, Zip: <u>Farmington, NM 87401</u> Phone: <u>(505) 444-0586</u> Email: <u>chad@enduringresources.com</u> <u>immediate@enduringresources.com</u>					Report Attention Report due by: _____ Attention: _____ Address: _____ City, State, Zip: _____ Phone: _____ Email: _____					Lab Use Only Lab WO# <u>P910134</u> Job Number <u>13065-0017</u> Analysis and Method DRD/ORD by 8015 GRD/ORD by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0					TAT 1D 3D *		EPA Program RCRA CWA SDWA State NM CO UT AZ TX OK			
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRD/ORD by 8015	GRD/ORD by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	1D	3D	RCRA	CWA	SDWA	State			
12:20	10-21-19	S	1	Back Sec 10	21	X	X	X		X										
12:25			1	East wall 1	22	X	X	X		X										
12:30			1	East wall 2	23	X	X	X		X										
12:35			1	East wall 3	24	X	X	X		X										
12:40			1	West wall 1	25	X	X	X		X										
12:45			1	West wall 2	26	X	X	X		X										
12:50			1	West wall 3	27	X	X	X		X										
Additional Instructions: I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Chad Small</u> <u>10-22-19</u> Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.																				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time													
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				



5795 US Highway 64, Farmington, NM 87401
 24 Hour Emergency Response Phone (800) 362-1879

Ph (505) 632-1881 Fx (505) 632-1885

envirotech-inc.com
 latadmin@envirotech-inc.com

Page 41 of 41



ANALYTICAL REPORT

August 14, 2019

Enduring Resources

Sample Delivery Group: L1128003
Samples Received: 08/13/2019
Project Number:
Description: S. Chaco 342H

Report To: James McDaniel
200 Energy Court
Farmington, NM 87401

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

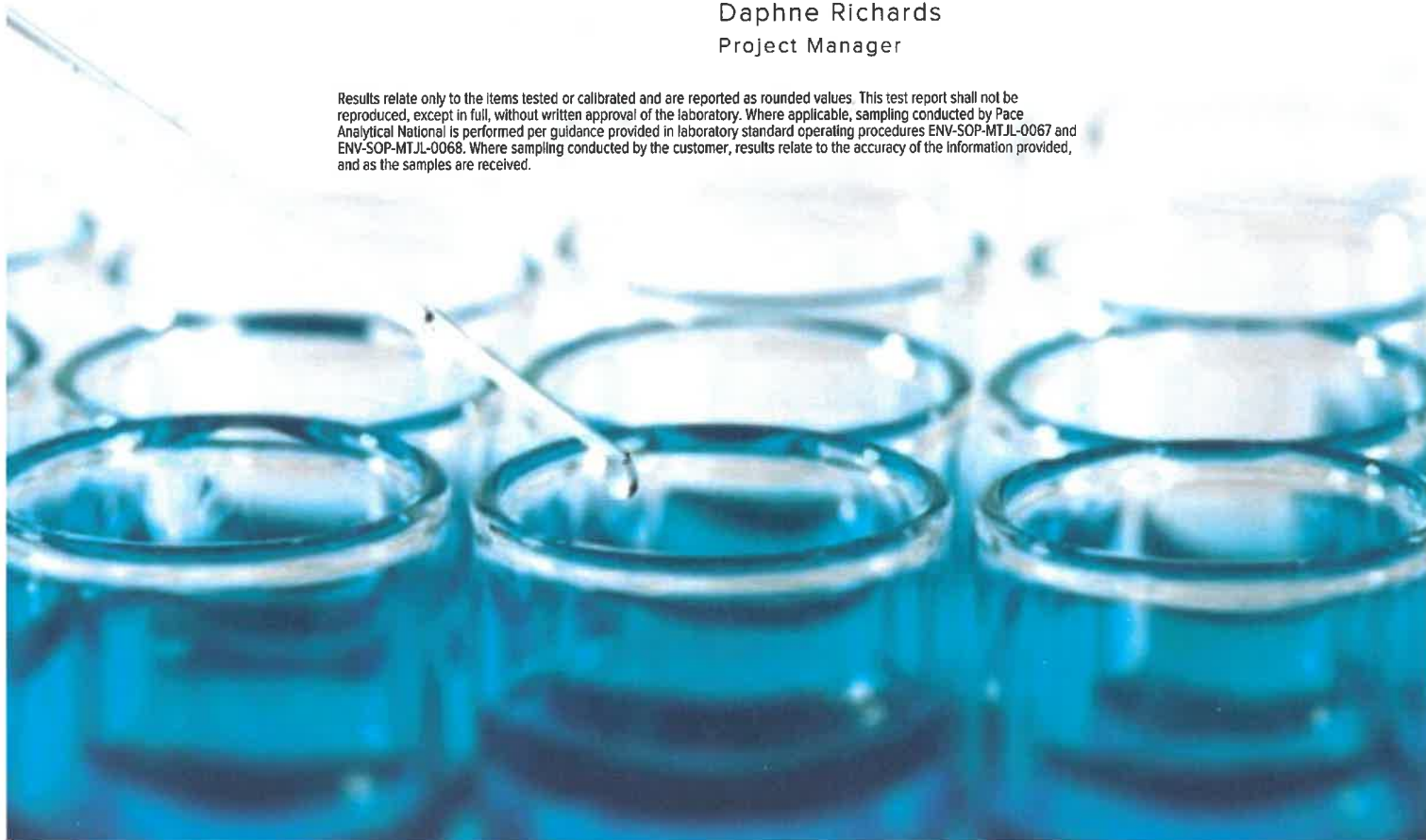
8 Al

9 Sc

Entire Report Reviewed By:

Daphne Richards
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



ACCOUNT:
Enduring Resources

PROJECT:

SDG:
L1128003

DATE/TIME:
08/14/19 16:46

PAGE:
1 of 32

TABLE OF CONTENTS

ONE LAB. NATIONWIDE.



Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	6	
Sr: Sample Results	7	³ Ss
BORE HOLE #1 0-6" L1128003-01	7	
BORE HOLE #1 2.5" L1128003-02	8	⁴ Cn
BORE HOLE #2 0-6" L1128003-03	9	⁵ Sr
BORE HOLE #2 2.5" L1128003-04	10	
BORE HOLE #3 0-6" L1128003-05	11	⁶ Qc
BORE HOLE #3 2.5" L1128003-06	12	
BORE HOLE #3 4' L1128003-07	13	⁷ Gl
BORE HOLE #4 0-6" L1128003-08	14	⁸ Al
BORE HOLE #4 2.5" L1128003-09	15	
SURFACE FRONT SEC. 1 L1128003-10	16	⁹ Sc
SURFACE FRONT SEC. 2 L1128003-11	17	
SURFACE BACK SEC. 1 L1128003-12	18	
SURFACE BACK SEC. 2 L1128003-13	19	
SPILL AREA @ 0-6" L1128003-14	20	
SPILL AREA @ 5" L1128003-15	21	
Qc: Quality Control Summary	22	
Total Solids by Method 2540 G-2011	22	
Wet Chemistry by Method 9056A	25	
Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO	26	
Semi-Volatile Organic Compounds (GC) by Method 8015	28	
Gl: Glossary of Terms	29	
Al: Accreditations & Locations	30	
Sc: Sample Chain of Custody	31	

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



BORE HOLE #1 0-6" L1128003-01 Solid

Collected by: Chad Snell
Collected date/time: 08/12/19 09:55
Received date/time: 08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327705	1	08/13/19 15:05	08/13/19 15:13	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	5	08/13/19 19:45	08/13/19 22:54	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 16:01	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 16:01	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 11:05	KME	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

BORE HOLE #1 2.5" L1128003-02 Solid

Collected by: Chad Snell
Collected date/time: 08/12/19 10:05
Received date/time: 08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327705	1	08/13/19 15:05	08/13/19 15:13	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	5	08/13/19 19:45	08/13/19 23:02	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 16:22	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 16:22	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 11:20	KME	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

BORE HOLE #2 0-6" L1128003-03 Solid

Collected by: Chad Snell
Collected date/time: 08/12/19 10:20
Received date/time: 08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327706	1	08/13/19 14:50	08/13/19 15:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	5	08/13/19 19:45	08/13/19 23:19	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 16:42	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 16:42	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 11:34	KME	Mt. Juliet, TN

BORE HOLE #2 2.5" L1128003-04 Solid

Collected by: Chad Snell
Collected date/time: 08/12/19 10:30
Received date/time: 08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327706	1	08/13/19 14:50	08/13/19 15:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	5	08/13/19 19:45	08/13/19 23:28	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 17:03	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 17:03	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 11:47	KME	Mt. Juliet, TN

BORE HOLE #3 0-6" L1128003-05 Solid

Collected by: Chad Snell
Collected date/time: 08/12/19 10:45
Received date/time: 08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327706	1	08/13/19 14:50	08/13/19 15:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	5	08/13/19 19:45	08/13/19 23:36	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 17:23	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 17:23	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 12:02	KME	Mt. Juliet, TN

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



BORE HOLE #3 2.5" L1128003-06 Solid

Collected by: Chad Snell
Collected date/time: 08/12/19 10:55
Received date/time: 08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327706	1	08/13/19 14:50	08/13/19 15:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	5	08/13/19 19:45	08/13/19 23:45	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 17:44	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 17:44	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 12:16	KME	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

BORE HOLE #3 4' L1128003-07 Solid

Collected by: Chad Snell
Collected date/time: 08/12/19 11:15
Received date/time: 08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327706	1	08/13/19 14:50	08/13/19 15:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	5	08/13/19 19:45	08/13/19 23:54	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 18:04	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 18:04	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 12:30	KME	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

BORE HOLE #4 0-6" L1128003-08 Solid

Collected by: Chad Snell
Collected date/time: 08/12/19 11:25
Received date/time: 08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327706	1	08/13/19 14:50	08/13/19 15:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	5	08/13/19 19:45	08/14/19 00:45	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 18:25	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 18:25	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 12:44	KME	Mt. Juliet, TN

9 Sc

BORE HOLE #4 2.5" L1128003-09 Solid

Collected by: Chad Snell
Collected date/time: 08/12/19 11:40
Received date/time: 08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327706	1	08/13/19 14:50	08/13/19 15:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	1	08/13/19 19:45	08/14/19 00:53	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 18:45	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 18:45	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 12:59	KME	Mt. Juliet, TN

SURFACE FRONT SEC. 1 L1128003-10 Solid

Collected by: Chad Snell
Collected date/time: 08/12/19 12:05
Received date/time: 08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327706	1	08/13/19 14:50	08/13/19 15:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	5	08/13/19 19:45	08/14/19 01:02	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 19:06	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 19:06	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 13:13	KME	Mt. Juliet, TN

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



SURFACE FRONT SEC. 2 L1128003-11 Solid

Collected by
Chad Snell

Collected date/time
08/12/19 12:00

Received date/time
08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327706	1	08/13/19 14:50	08/13/19 15:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	5	08/13/19 19:45	08/14/19 01:10	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 19:26	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 19:26	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 13:27	KME	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

SURFACE BACK SEC. 1 L1128003-12 Solid

Collected by
Chad Snell

Collected date/time
08/12/19 12:15

Received date/time
08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327706	1	08/13/19 14:50	08/13/19 15:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	10	08/13/19 19:45	08/14/19 08:27	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 19:47	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 19:47	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 13:42	KME	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

SURFACE BACK SEC. 2 L1128003-13 Solid

Collected by
Chad Snell

Collected date/time
08/12/19 12:20

Received date/time
08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327958	1	08/14/19 08:43	08/14/19 08:52	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	10	08/13/19 19:45	08/14/19 08:44	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 20:07	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 20:07	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 13:56	KME	Mt. Juliet, TN

9 Sc

SPILL AREA @ 0-6" L1128003-14 Solid

Collected by
Chad Snell

Collected date/time
08/12/19 12:30

Received date/time
08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327958	1	08/14/19 08:43	08/14/19 08:52	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	5	08/13/19 19:45	08/14/19 02:01	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 20:28	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 20:28	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 14:11	KME	Mt. Juliet, TN

SPILL AREA @ 5" L1128003-15 Solid

Collected by
Chad Snell

Collected date/time
08/12/19 12:35

Received date/time
08/13/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1327958	1	08/14/19 08:43	08/14/19 08:52	KBC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1327636	5	08/13/19 19:45	08/14/19 02:10	LDC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1327721	1	08/13/19 13:35	08/13/19 20:48	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1327721	1	08/13/19 13:35	08/13/19 20:48	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1327771	1	08/13/19 19:08	08/14/19 14:27	KME	Mt. Juliet, TN

CASE NARRATIVE

ONE LAB. NATIONWIDE.



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne Richards
Project Manager

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

BORE HOLE #1 0-6"

Collected date/time: 08/12/19 09:55

SAMPLE RESULTS - 01

L1128003

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	78.2		1	08/13/2019 15:13	WG1327705

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	1550		63.9	5	08/13/2019 22:54	WG1327636

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.00744		0.000639	1	08/13/2019 16:01	WG1327721
TPH (GC/FID) Low Fraction	ND		0.128	1	08/13/2019 16:01	WG1327721
Toluene	ND		0.00639	1	08/13/2019 16:01	WG1327721
Ethylbenzene	ND		0.000639	1	08/13/2019 16:01	WG1327721
Total Xylene	ND		0.00192	1	08/13/2019 16:01	WG1327721
(S) a,a,a-Trifluorotoluene(FID)	92.1		77.0-120		08/13/2019 16:01	WG1327721
(S) a,a,a-Trifluorotoluene(PID)	94.4		72.0-128		08/13/2019 16:01	WG1327721

5 Sr

6 Qc

7 GI

8 AI

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		5.11	1	08/14/2019 11:05	WG1327771
C28-C40 Oil Range	ND		5.11	1	08/14/2019 11:05	WG1327771
(S) o-Terphenyl	119		18.0-148		08/14/2019 11:05	WG1327771

BORE HOLE #1 2.5"

SAMPLE RESULTS - 02

ONE LAB. NATIONWIDE.



Collected date/time: 08/12/19 10:05

L1128003

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.3		1	08/13/2019 15:13	WG1327705

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	841	J3	62.3	5	08/13/2019 23:02	WG1327636

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	ND		0.000623	1	08/13/2019 16:22	WG1327721
TPH (GC/FID) Low Fraction	ND		0.125	1	08/13/2019 16:22	WG1327721
Toluene	ND		0.00623	1	08/13/2019 16:22	WG1327721
Ethylbenzene	ND		0.000623	1	08/13/2019 16:22	WG1327721
Total Xylene	ND		0.00187	1	08/13/2019 16:22	WG1327721
(S) a,a,a-Trifluorotoluene(FID)	91.9		77.0-120		08/13/2019 16:22	WG1327721
(S) a,a,a-Trifluorotoluene(PID)	95.0		72.0-128		08/13/2019 16:22	WG1327721

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.98	1	08/14/2019 11:20	WG1327771
C28-C40 Oil Range	ND		4.98	1	08/14/2019 11:20	WG1327771
(S) o-Terphenyl	66.8		18.0-148		08/14/2019 11:20	WG1327771

BORE HOLE #2 0-6"

SAMPLE RESULTS - 03

ONE LAB. NATIONWIDE.



Collected date/time: 08/12/19 10:20

L1128003

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.2		1	08/13/2019 15:04	WG1327706

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	3430		62.4	5	08/13/2019 23:19	WG1327636

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.0927		0.000624	1	08/13/2019 16:42	WG1327721
TPH (GC/FID) Low Fraction	0.862		0.125	1	08/13/2019 16:42	WG1327721
Toluene	0.0678		0.00624	1	08/13/2019 16:42	WG1327721
Ethylbenzene	0.00516		0.000624	1	08/13/2019 16:42	WG1327721
Total Xylene	0.0329		0.00187	1	08/13/2019 16:42	WG1327721
(S) a,a,a-Trifluorotoluene(FID)	85.7		77.0-120		08/13/2019 16:42	WG1327721
(S) a,a,a-Trifluorotoluene(PID)	93.4		72.0-128		08/13/2019 16:42	WG1327721

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.99	1	08/14/2019 11:34	WG1327771
C28-C40 Oil Range	ND		4.99	1	08/14/2019 11:34	WG1327771
(S) o-Terphenyl	56.3		18.0-148		08/14/2019 11:34	WG1327771

BORE HOLE #2 2.5"

Collected date/time: 08/12/19 10:30

SAMPLE RESULTS - 04

L1128003

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.1		1	08/13/2019 15:04	WG1327706

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	1160		62.5	5	08/13/2019 23:28	WG1327636

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.0209		0.000625	1	08/13/2019 17:03	WG1327721
TPH (GC/FID) Low Fraction	0.888		0.125	1	08/13/2019 17:03	WG1327721
Toluene	0.00780		0.00625	1	08/13/2019 17:03	WG1327721
Ethylbenzene	0.00177	B	0.000625	1	08/13/2019 17:03	WG1327721
Total Xylene	0.0137	B	0.00187	1	08/13/2019 17:03	WG1327721
(S) a,a,a-Trifluorotoluene(FID)	89.0		77.0-120		08/13/2019 17:03	WG1327721
(S) a,a,a-Trifluorotoluene(PID)	92.2		72.0-128		08/13/2019 17:03	WG1327721

5 Sr

6 Qc

7 GI

8 AI

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		5.00	1	08/14/2019 11:47	WG1327771
C28-C40 Oil Range	ND		5.00	1	08/14/2019 11:47	WG1327771
(S) o-Terphenyl	81.7		18.0-148		08/14/2019 11:47	WG1327771

BORE HOLE #3 0-6"

SAMPLE RESULTS - 05

ONE LAB. NATIONWIDE.



Collected date/time: 08/12/19 10:45

L1128003

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.7		1	08/13/2019 15:04	WG1327706

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	1350		61.2	5	08/13/2019 23:36	WG1327636

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.0176		0.000612	1	08/13/2019 17:23	WG1327721
TPH (GC/FID) Low Fraction	0.276	B	0.122	1	08/13/2019 17:23	WG1327721
Toluene	0.00653		0.00612	1	08/13/2019 17:23	WG1327721
Ethylbenzene	ND		0.000612	1	08/13/2019 17:23	WG1327721
Total Xylene	ND		0.00184	1	08/13/2019 17:23	WG1327721
(S) a,a,a-Trifluorotoluene(FID)	88.8		77.0-120		08/13/2019 17:23	WG1327721
(S) a,a,a-Trifluorotoluene(PID)	92.7		72.0-128		08/13/2019 17:23	WG1327721

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.90	1	08/14/2019 12:02	WG1327771
C28-C40 Oil Range	ND		4.90	1	08/14/2019 12:02	WG1327771
(S) o-Terphenyl	73.9		18.0-148		08/14/2019 12:02	WG1327771

BORE HOLE #3 2.5"

SAMPLE RESULTS - 06

ONE LAB. NATIONWIDE.



Collected date/time: 08/12/19 10:55

L1128003

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.1		1	08/13/2019 15:04	WG1327706

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	998		60.1	5	08/13/2019 23:45	WG1327636

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.00765		0.000601	1	08/13/2019 17:44	WG1327721
TPH (GC/FID) Low Fraction	ND		0.120	1	08/13/2019 17:44	WG1327721
Toluene	ND		0.00601	1	08/13/2019 17:44	WG1327721
Ethylbenzene	ND		0.000601	1	08/13/2019 17:44	WG1327721
Total Xylene	ND		0.00180	1	08/13/2019 17:44	WG1327721
(S) a,a,a-Trifluorotoluene(FID)	92.0		77.0-120		08/13/2019 17:44	WG1327721
(S) a,a,a-Trifluorotoluene(PID)	94.6		72.0-128		08/13/2019 17:44	WG1327721

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.81	1	08/14/2019 12:16	WG1327771
C28-C40 Oil Range	ND		4.81	1	08/14/2019 12:16	WG1327771
(S) o-Terphenyl	60.0		18.0-148		08/14/2019 12:16	WG1327771

BORE HOLE #3 4'

SAMPLE RESULTS - 07

ONE LAB. NATIONWIDE.



Collected date/time: 08/12/19 11:15

L1128003

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.8		1	08/13/2019 15:04	WG1327706

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	1210		61.9	5	08/13/2019 23:54	WG1327636

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.00650		0.000619	1	08/13/2019 18:04	WG1327721
TPH (GC/FID) Low Fraction	ND		0.124	1	08/13/2019 18:04	WG1327721
Toluene	ND		0.00619	1	08/13/2019 18:04	WG1327721
Ethylbenzene	ND		0.000619	1	08/13/2019 18:04	WG1327721
Total Xylene	ND		0.00186	1	08/13/2019 18:04	WG1327721
(S) a,a,a-Trifluorotoluene(FID)	91.7		77.0-120		08/13/2019 18:04	WG1327721
(S) a,a,a-Trifluorotoluene(PID)	94.3		72.0-128		08/13/2019 18:04	WG1327721

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.95	1	08/14/2019 12:30	WG1327771
C28-C40 Oil Range	ND		4.95	1	08/14/2019 12:30	WG1327771
(S) o-Terphenyl	75.2		18.0-148		08/14/2019 12:30	WG1327771

BORE HOLE #4 0-6"

SAMPLE RESULTS - 08

ONE LAB. NATIONWIDE.



Collected date/time: 08/12/19 11:25

L1128003

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.7		1	08/13/2019 15:04	WG1327706

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	2810		60.5	5	08/14/2019 00:45	WG1327636

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.0197		0.000605	1	08/13/2019 18:25	WG1327721
TPH (GC/FID) Low Fraction	0.230	B	0.121	1	08/13/2019 18:25	WG1327721
Toluene	0.0155		0.00605	1	08/13/2019 18:25	WG1327721
Ethylbenzene	0.00157	B	0.000605	1	08/13/2019 18:25	WG1327721
Total Xylene	0.00989	B	0.00181	1	08/13/2019 18:25	WG1327721
(S) o,a,a-Trifluorotoluene(FID)	89.7		77.0-120		08/13/2019 18:25	WG1327721
(S) o,a,a-Trifluorotoluene(PID)	92.3		72.0-128		08/13/2019 18:25	WG1327721

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.84	1	08/14/2019 12:44	WG1327771
C28-C40 Oil Range	ND		4.84	1	08/14/2019 12:44	WG1327771
(S) o-Terphenyl	63.8		18.0-148		08/14/2019 12:44	WG1327771

BORE HOLE #4 2.5"

SAMPLE RESULTS - 09

ONE LAB. NATIONWIDE.



Collected date/time: 08/12/19 11:40

L1128003

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	74.4		1	08/13/2019 15:04	WG1327706

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	511		13.4	1	08/14/2019 00:53	WG1327636

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.00596		0.000672	1	08/13/2019 18:45	WG1327721
TPH (GC/FID) Low Fraction	1.33		0.134	1	08/13/2019 18:45	WG1327721
Toluene	ND		0.00672	1	08/13/2019 18:45	WG1327721
Ethylbenzene	ND		0.000672	1	08/13/2019 18:45	WG1327721
Total Xylene	0.0180		0.00202	1	08/13/2019 18:45	WG1327721
(S) a,a,a-Trifluorotoluene(FID)	88.5		77.0-120		08/13/2019 18:45	WG1327721
(S) a,a,a-Trifluorotoluene(PID)	92.5		72.0-128		08/13/2019 18:45	WG1327721

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		5.37	1	08/14/2019 12:59	WG1327771
C28-C40 Oil Range	ND		5.37	1	08/14/2019 12:59	WG1327771
(S) o-Terphenyl	65.6		18.0-148		08/14/2019 12:59	WG1327771

SURFACE FRONT SEC. 1

SAMPLE RESULTS - 10

ONE LAB. NATIONWIDE.



Collected date/time: 08/12/19 12:05

L1128003

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.5		1	08/13/2019 15:04	WG1327706

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	3670		55.9	5	08/14/2019 01:02	WG1327636

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	ND		0.000559	1	08/13/2019 19:06	WG1327721
TPH (GC/FID) Low Fraction	ND		0.112	1	08/13/2019 19:06	WG1327721
Toluene	ND		0.00559	1	08/13/2019 19:06	WG1327721
Ethylbenzene	ND		0.000559	1	08/13/2019 19:06	WG1327721
Total Xylene	ND		0.00168	1	08/13/2019 19:06	WG1327721
(S) o,a,a-Trifluorotoluene(FID)	91.3		77.0-120		08/13/2019 19:06	WG1327721
(S) o,a,a-Trifluorotoluene(PID)	94.9		72.0-128		08/13/2019 19:06	WG1327721

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.47	1	08/14/2019 13:13	WG1327771
C28-C40 Oil Range	ND		4.47	1	08/14/2019 13:13	WG1327771
(S) o-Terphenyl	67.8		18.0-148		08/14/2019 13:13	WG1327771

SURFACE FRONT SEC. 2

SAMPLE RESULTS - 11

ONE LAB. NATIONWIDE.



Collected date/time: 08/12/19 12:00

L1128003

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.4		1	08/13/2019 15:04	WG1327706

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	mg/kg		mg/kg			
	3230		58.6	5	08/14/2019 01:10	WG1327636

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg			
Benzene	ND		0.000586	1	08/13/2019 19:26	WG1327721
TPH (GC/FID) Low Fraction	ND		0.117	1	08/13/2019 19:26	WG1327721
Toluene	ND		0.00586	1	08/13/2019 19:26	WG1327721
Ethylbenzene	ND		0.000586	1	08/13/2019 19:26	WG1327721
Total Xylene	ND		0.00176	1	08/13/2019 19:26	WG1327721
(S) a,a,a-Trifluorotoluene(FID)	91.7		77.0-120		08/13/2019 19:26	WG1327721
(S) a,a,a-Trifluorotoluene(PID)	94.6		72.0-128		08/13/2019 19:26	WG1327721

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg			
C10-C28 Diesel Range	ND		4.69	1	08/14/2019 13:27	WG1327771
C28-C40 Oil Range	ND		4.69	1	08/14/2019 13:27	WG1327771
(S) o-Terphenyl	72.3		18.0-148		08/14/2019 13:27	WG1327771

SURFACE BACK SEC. 1

SAMPLE RESULTS - 12

ONE LAB. NATIONWIDE.



Collected date/time: 08/12/19 12:15

L1128003

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	78.2		1	08/13/2019 15:04	WG1327706

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	7570		128	10	08/14/2019 08:27	WG1327636

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.00996		0.000639	1	08/13/2019 19:47	WG1327721
TPH (GC/FID) Low Fraction	0.530		0.128	1	08/13/2019 19:47	WG1327721
Toluene	0.0103		0.00639	1	08/13/2019 19:47	WG1327721
Ethylbenzene	0.000919	B	0.000639	1	08/13/2019 19:47	WG1327721
Total Xylene	0.0308		0.00192	1	08/13/2019 19:47	WG1327721
(S) o,a,a-Trifluorotoluene(FID)	89.1		77.0-120		08/13/2019 19:47	WG1327721
(S) o,a,a-Trifluorotoluene(PID)	91.9		72.0-128		08/13/2019 19:47	WG1327721

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		5.11	1	08/14/2019 13:42	WG1327771
C28-C40 Oil Range	ND		5.11	1	08/14/2019 13:42	WG1327771
(S) o-Terphenyl	61.7		18.0-148		08/14/2019 13:42	WG1327771

SURFACE BACK SEC. 2

SAMPLE RESULTS - 13

ONE LAB. NATIONWIDE.



Collected date/time: 08/12/19 12:20

L1128003

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.0		1	08/14/2019 08:52	WG1327958

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	6850		122	10	08/14/2019 08:44	WG1327636

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	ND		0.000610	1	08/13/2019 20:07	WG1327721
TPH (GC/FID) Low Fraction	ND		0.122	1	08/13/2019 20:07	WG1327721
Toluene	ND		0.00610	1	08/13/2019 20:07	WG1327721
Ethylbenzene	ND		0.000610	1	08/13/2019 20:07	WG1327721
Total Xylene	ND		0.00183	1	08/13/2019 20:07	WG1327721
(S) a,a,a-Trifluorotoluene(FID)	92.1		77.0-120		08/13/2019 20:07	WG1327721
(S) a,a,a-Trifluorotoluene(PID)	95.7		72.0-128		08/13/2019 20:07	WG1327721

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.88	1	08/14/2019 13:56	WG1327771
C28-C40 Oil Range	8.52		4.88	1	08/14/2019 13:56	WG1327771
(S) o-Terphenyl	63.7		18.0-148		08/14/2019 13:56	WG1327771

SPILL AREA @ 0-6"

SAMPLE RESULTS - 14

ONE LAB. NATIONWIDE.



Collected date/time: 08/12/19 12:30

L1128003

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	79.6		1	08/14/2019 08:52	WG1327958

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	1650		62.8	5	08/14/2019 02:01	WG1327636

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.0548		0.000628	1	08/13/2019 20:28	WG1327721
TPH (GC/FID) Low Fraction	5.37		0.126	1	08/13/2019 20:28	WG1327721
Toluene	0.0693		0.00628	1	08/13/2019 20:28	WG1327721
Ethylbenzene	0.0188		0.000628	1	08/13/2019 20:28	WG1327721
Total Xylene	0.143		0.00188	1	08/13/2019 20:28	WG1327721
(S) o,a,a-Trifluorotoluene(FID)	82.4		77.0-120		08/13/2019 20:28	WG1327721
(S) o,a,a-Trifluorotoluene(PID)	89.0		72.0-128		08/13/2019 20:28	WG1327721

5 Sr

6 Qc

7 GI

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	8.28		5.02	1	08/14/2019 14:11	WG1327771
C28-C40 Oil Range	5.16		5.02	1	08/14/2019 14:11	WG1327771
(S) o-Terphenyl	59.3		18.0-148		08/14/2019 14:11	WG1327771

SPILL AREA @ 5"

Collected date/time: 08/12/19 12:35

SAMPLE RESULTS - 15

L1128003

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	75.9		1	08/14/2019 08:52	WG1327958

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	3130		65.9	5	08/14/2019 02:10	WG1327636

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.0916		0.000659	1	08/13/2019 20:48	WG1327721
TPH (GC/FID) Low Fraction	10.5		0.132	1	08/13/2019 20:48	WG1327721
Toluene	0.145		0.00659	1	08/13/2019 20:48	WG1327721
Ethylbenzene	0.0472		0.000659	1	08/13/2019 20:48	WG1327721
Total Xylene	0.318		0.00198	1	08/13/2019 20:48	WG1327721
(S) a,a,a-Trifluorotoluene(FID)	79.0		77.0-120		08/13/2019 20:48	WG1327721
(S) a,a,a-Trifluorotoluene(PID)	90.3		72.0-128		08/13/2019 20:48	WG1327721

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	6.52		5.27	1	08/14/2019 14:27	WG1327771
C28-C40 Oil Range	ND		5.27	1	08/14/2019 14:27	WG1327771
(S) o-Terphenyl	81.2		18.0-148		08/14/2019 14:27	WG1327771

WG1327705

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY

[L1128003-01,02](#)

ONE LAB. NATIONWIDE 

Method Blank (MB)

(MB) R3440210-1 08/13/19 15:13

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Total Solids	0.000			

L1127978-01 Original Sample (OS) - Duplicate (DUP)

(OS) L1127978-01 08/13/19 15:13 - (DUP) R3440210-3 08/13/19 15:13

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Total Solids	87.8	86.4	1	1.57		10

Laboratory Control Sample (LCS)

(LCS) R3440210-2 08/13/19 15:13

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ACCOUNT:
Enduring Resources

PROJECT:

SDG:
L1128003

DATE/TIME:
08/14/19 16:46

PAGE:
22 of 32

WG1327706

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY

[L1128003-03,04,05,06,07,08,09,10,11,12](#)

ONE LAB. NATIONWIDE. 

Method Blank (MB)

(MB) R3440208-1 08/13/19 15:04

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Total Solids	%		%	%
	0.000			

L1128003-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1128003-10 08/13/19 15:04 • (DUP) R3440208-3 08/13/19 15:04

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Total Solids	%	%		%		%
	89.5	88.2	1	1.51		10

Laboratory Control Sample (LCS)

(LCS) R3440208-2 08/13/19 15:04

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Total Solids	%	%	%	%	
	50.0	50.0	100	85.0-115	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

ACCOUNT:
Enduring Resources

PROJECT:

SDG:
L1128003

DATE/TIME:
08/14/19 16:46

PAGE:
23 of 32

WG1327958

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY

[L1128003-13,14,15](#)

ONE LAB. NATIONWIDE. 

Method Blank (MB)

(MB) R3440412-1 08/14/19 08:52

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Total Solids	%		%	%
	0.00100			

L1128003-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1128003-14 08/14/19 08:52 • (DUP) R3440412-3 08/14/19 08:52

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Total Solids	%	%		%		%
	79.6	79.8	1	0.264		10

Laboratory Control Sample (LCS)

(LCS) R3440412-2 08/14/19 08:52

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Total Solids	%	%	%	%	
	50.0	50.0	100	85.0-115	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ACCOUNT:
Enduring Resources

PROJECT:

SDG:
L1128003

DATE/TIME:
08/14/19 16:46

PAGE:
24 of 32

WG1327636

Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY[L1128003-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15](#)

ONE LAB. NATIONWIDE.

**Method Blank (MB)**

(MB) R3440214-1 08/13/19 21:11

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	7.92	<u>J</u>	0.795	10.0

L1128003-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1128003-02 08/13/19 23:02 • (DUP) R3440214-3 08/13/19 23:11

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	841	1000	5	17.5	<u>J3</u>	15

L1128003-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1128003-12 08/14/19 08:27 • (DUP) R3440214-7 08/14/19 08:35

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	7570	7620	10	0.629		15

Laboratory Control Sample (LCS)

(LCS) R3440214-2 08/13/19 21:20

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	195	97.7	80.0-120	

L1128003-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1128003-08 08/14/19 00:19 • (MS) R3440214-4 08/14/19 00:28 • (MSD) R3440214-5 08/14/19 00:36

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	605	2910	3860	3420	156	83.3	1	80.0-120	<u>EV</u>	<u>E</u>	12.1	15

Cp

²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹ScACCOUNT:
Enduring Resources

PROJECT:

SDG:
L1128003DATE/TIME:
08/14/19 16:46PAGE:
25 of 32

WG1327721

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE



Method Blank (MB)

(MB) R3440174-2 08/13/19 12:28

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000120	0.000500
Toluene	0.000271	J	0.000150	0.00500
Ethylbenzene	0.000203	J	0.000110	0.000500
Total Xylene	U		0.000460	0.00150
TPH (GC/FID) Low Fraction	0.0373	J	0.0217	0.100
(S)				
<i>o,o,o</i> -Trifluorotoluene(FID)	86.7			77.0-120
(S)				
<i>o,o,o</i> -Trifluorotoluene(PID)	87.3			72.0-128

Laboratory Control Sample (LCS)

(LCS) R3440174-1 08/13/19 10:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.02	91.3	72.0-127	
(S)			102	77.0-120	
<i>o,o,o</i> -Trifluorotoluene(FID)					
(S)			99.9	72.0-128	
<i>o,o,o</i> -Trifluorotoluene(PID)					

Laboratory Control Sample (LCS)

(LCS) R3440174-3 08/13/19 13:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0445	88.9	76.0-121	
Toluene	0.0500	0.0427	85.5	80.0-120	
Ethylbenzene	0.0500	0.0454	90.8	80.0-124	
Total Xylene	0.150	0.139	92.5	37.0-160	
(S)			93.4	77.0-120	
<i>o,o,o</i> -Trifluorotoluene(FID)					
(S)			94.8	72.0-128	
<i>o,o,o</i> -Trifluorotoluene(PID)					

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ACCOUNT:
Enduring Resources

PROJECT:

SDG:
L1128003DATE/TIME:
08/14/19 16:46PAGE:
26 of 32

Volatile Organic Compounds (GC) by Method 8015D/8021B/GRO

[L1128003-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15](#)

L1126081-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1126081-11 08/13/19 21:09 • (MS) R3440174-4 08/13/19 21:50 • (MSD) R3440174-5 08/13/19 22:10

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Benzene	0.0500	ND	0.688	0.754	54.5	59.8	25	10.0-155			9.18	32
Toluene	0.0500	ND	0.693	0.762	55.0	60.6	25	10.0-160			9.52	34
Ethylbenzene	0.0500	ND	0.789	0.846	62.9	67.4	25	10.0-160			6.95	32
Total Xylene	0.150	ND	2.35	2.56	62.0	67.8	25	10.0-160	J6	J6	8.76	32
(S) α,α,α-Trifluorotoluene(FID)					92.7	93.3		77.0-120				
(S) α,α,α-Trifluorotoluene(PID)					94.6	95.7		72.0-128				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

WG1327771

Semi-Volatile Organic Compounds (GC) by Method 8015

QUALITY CONTROL SUMMARY

[L1128003-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15](#)

ONE LAB. NATIONWIDE. 

Method Blank (MB)

(MB) R3440461-1 08/14/19 10:38

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
[S] o-Terphenyl	66.1			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3440461-2 08/14/19 10:51

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	36.5	73.0	50.0-150	
[S] o-Terphenyl			85.6	18.0-148	

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

ACCOUNT:
Enduring Resources

PROJECT:

SDG:
L1128003

DATE/TIME:
08/14/19 16:46

PAGE:
28 of 32

GLOSSARY OF TERMS

ONE LAB. NATIONWIDE.



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-05-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ²	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

Third Party Federal Accreditations

A2LA - ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA - ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.




ACCOUNT:
Enduring Resources

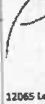

PROJECT:

SDG:
L1128003

DATE/TIME:
08/14/19 16:46

PAGE:
30 of 32

Enduring Resources 200 Energy Court Farmington, NM 87401		Billing Information: James McDaniel 200 Energy Court Farmington, NM 87401		Pres Chk		Analysis / Container / Preservative		Chain of Custody Page ____ of ____	
Report to: <u>James McDaniel</u>		Email To: <u>JMcDaniel@enduringresources.com</u>						 12065 Lebanon Rd Murfreesboro, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859	
Project Description: <u>S. Chico 342H</u>		City/State Collected: <u>NM</u>						121128003 B241	
Phone: <u>505-636-9731</u> Fax:		Client Project #		Lab Project #				Actnum: ENDRESANM Template:	
Collected by (print): <u>Chad Small</u>		Site/Facility ID #		P.O. #				Prelogin:	
Collected by (signature): <u>[Signature]</u>		Rush? (Lab MUST Be Notified) <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input checked="" type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day		Quote #				TSR: 288 - Daphne Richards PB:	
Immediately Packed on Ice <u>N</u> <u>Y</u> <u>X</u>		Date Results Needed		No. of Cntrs				Shipped Via:	
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time				Remarks
Bore Hole #1 0-6"		SS	0-6"	8-12-19	9:55am	1	X	X	-01
Bore Hole #1 2.5"		SS	2.5"	8-12-19	10:05am	1	X	X	-02
Bore Hole #2 0-6"		SS	0-6"	8-12-19	10:20am	1	X	X	-03
Bore Hole #2 2.5"		SS	2.5"	8-12-19	10:30am	1	X	X	-04
Bore Hole #3 0-6"		SS	0-6"		10:45am	1	X	X	-05
Bore Hole #3 2.5"		SS	2.5"		10:55am	1	X	X	-06
Bore Hole #3 4'		SS	4'		11:15am	1	X	X	-07
Bore Hole #4 0-6"		SS	0-6"		11:25am	1	X	X	-08
Bore Hole #4 2.5"		SS	2.5"		11:40am	1	X	X	-09
Surface Front Sec. 1	Comp.	SS	0-6"		12:05pm	1	X	X	-10
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - Waste Water DW - Drinking Water OT - Other		Remarks:		Tracking #		pH _____ Temp _____ Flow _____ Other _____		Sample Receipt Checked: POC Seal Present/Intact: <u>Y</u> COC Signed/Accurate: <u>Y</u> Bottles arrive intact: <u>Y</u> Correct bottles used: <u>Y</u> Sufficient volume sent: <u>Y</u> If Applicable VOA Zero Headspace: <u>Y</u> Preservation Correct/Checked: <u>Y</u>	
Relinquished by: (Signature) <u>[Signature]</u>		Date: <u>8-12-19</u> Time: <u>4:00pm</u>		Received by: (Signature) <u>[Signature]</u>		Trip Blank Received <u>Y</u> (Yes/No) HCL / MeOH TBR		If preservation required by Login Date/Time	
Relinquished by: (Signature)		Date: Time:		Received by: (Signature)		Temp: <u>75/16</u> Bottles Received <u>2.5+0.3</u> <u>15</u>		Hold:	
Relinquished by: (Signature)		Date: Time:		Received for Lab: (Signature) <u>[Signature]</u>		Date: <u>8/13/19</u> Time: <u>8:45</u>		Condition: <u>NCF / 1</u>	

Chain of Custody	Page ____ of ____
 Pace Analytical® Hospital Center for Training & Innovation	
12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-750-6868 Phone: 800-767-5859 Fax: 615-755-5859	
L# L1128003	
Table # _____	
Accutnum: ENDRESANM	
Template: _____	
Prelogin: _____	
TSR: 288 - Daphne Richards	
PB: _____	
Shipped Via. _____	
Remarks	Sample # (Lab only)
	-11
	-12
	-13
	-14
	-15
Sample Receipt Checklist:	
Present/Intact:	<input checked="" type="checkbox"/>
Sealed/Accounted:	<input checked="" type="checkbox"/>
Arrive Intact:	<input checked="" type="checkbox"/>
Bottles used:	<input checked="" type="checkbox"/>
Int Volume sent:	<input checked="" type="checkbox"/>
If Available	
Repace:	<input checked="" type="checkbox"/>
Intact Correct/Checked:	<input checked="" type="checkbox"/>
Signature required by Login: Date/Time _____	
Condition: NCF / OK	