

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

NMOCD

Responsible Party

MAR 26 2019

DISTRICT III

Responsible Party: Enduring Resources	OGRID: 372286
Contact Name: Chad Snell	Contact Telephone: 505-444-0586
Contact email: csnell@enduringresources.com	Incident # (assigned by OCD): ncs1831938444 NCs 1900850599
Contact mailing address: 200 Energy Court	Farmington, New Mexico 87401

Location of Release Source

PCS 1826341898

Latitude 36.144262 Longitude -107.576376
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: NEU 2207 16B	Site Type: Recycling Facility
Date Release Discovered: 12/26/2018	API# (if applicable) 3RF-28

Unit Letter	Section	Township	Range	County
B	16	22N	7W	Sandoval

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): 20 bbls	Volume Recovered (bbls): None
	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 12/26/18, a treated water tank at the NEU 2207 16B overflowed, resulting in a 16 bbl produced water release. The water pooled in a bermed area, and ran towards the corner of the pad. No water left the NEU 2207 16B Pad Site. Confirmation sampling for the release took place with the NMOCD on 1/10/2019.

62

Smith, Cory, EMNRD

From: Smith, Cory, EMNRD
Sent: Monday, April 8, 2019 2:42 PM
To: 'Chad Snell'
Subject: NEU2207-16B incident#nCS190850599

Chad,

OCD has approved the Closure report received 3/26/19 for the NEU 16B. The C-141 will be scanned into the 3RF-28 Online File.

Please note Enduring is responsible to remediate the elevated chlorides one the facility is P&A'ed or when the area is no longer needed for the exploration of oil and gas.

NCS1900850599 NEU 16B @ FCS1826342224

General Incident Information

Site Name: NEU 16B
Well:
Facility: [fcs1826342224] NEU 2207-16B WATER RECYCLING FACILITY
Operator: [372286] ENDURING RESOURCES, LLC
Status: Closure Approved
Type: Produced Water Release
District: Aztec

Incident Location: B-16-28N-07W Lot: 0 FNL 0 FEL
Lat/Long: 36.144262,-107.576376 NAD83

Thanks,

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

From: Chad Snell <CSnell@enduringresources.com>
Sent: Tuesday, February 26, 2019 6:51 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>

State of New Mexico
Oil Conservation Division

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

Initial Response

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

<input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: _____ Title: _____ Signature: _____ Date: _____ email: _____ Telephone: _____
<u>OCD Only</u> Received by: _____ Date: _____

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>295</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.

State of New Mexico
Oil Conservation Division

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
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Remediation Plan

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

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

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

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

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

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

OCD Only

Received by: _____ Date: _____

- ☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	
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Application ID	


Closure

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

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

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

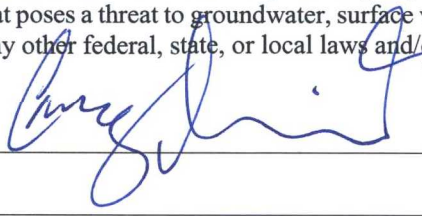
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public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

Printed Name: Chad Snell Title: HSE TECH
 Signature:  Date: 3-25-2019
 email: csnell@enduringresources.com Telephone: (505)444-0586

OCD Only

Received by: OCD Date: 3/26/19

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

Closure Approved by:  Date: 4/8/19
 Printed Name: Cory Title: Environmental Spec.

** Surface chlorides must Be Remediated At P3A or
When No longer in use.*

NEU 2207 16B Remediation Narrative

12/26/2018

On this day a treated water tank at the NEU 2207 16B overflowed resulting in a 16 bbl produced water spill. The water pooled in a bermed area and ran towards the south east corner of the pad. No water had left the pad. The spill was calculated by using Enduring Resources calculation tool.

12/27/2018

Enduring Resources notified the NMOCD that confirmation sampling would take place on December 31st 2018 at 9:00am. See attached *"Email Notification"*.

12/31/2018

Confirmation sampling was postponed until a later date due to bad weather. See attached *"Email Notification"*.

1/3/2019

NMOCD was notified via email that confirmation sampling would take place on January 7th 2019 at 9:00 am. See attached *"Email Notification"*.

1/7/2019

NMOCD canceled confirmation sampling due to road conditions and bad weather. See attached *"Email Notification"*.

1/8/2019

NMOCD was notified that confirmation sampling would take place on January 10th 2019 starting at 9:00am. See attached *"Email Notification"*.

1/10/2019

Confirmation sampling activities took place with Cory Smith of the NMOCD on site to witness sampling event. A total of eight, five point composite samples were taken from the spill area, also an additional composite sample was taken outside of the fence to ensure the spill did not reach areas outside of Enduring's location. Samples were sent in for analysis of BTEX, TPH (GRO/DRO/ORO).

1/11/2019

Pace Analytical notified Enduring personnel that one sample jar ("Section 3") had broken during shipment.

1/14/2019

Cory Smith of the NMOCD was contacted with the NMOCD by phone and followed by email of the situation that the sample jar had broken during shipment. He approved the resample of the section. See attached *"Email Notification"*

1/18/2019

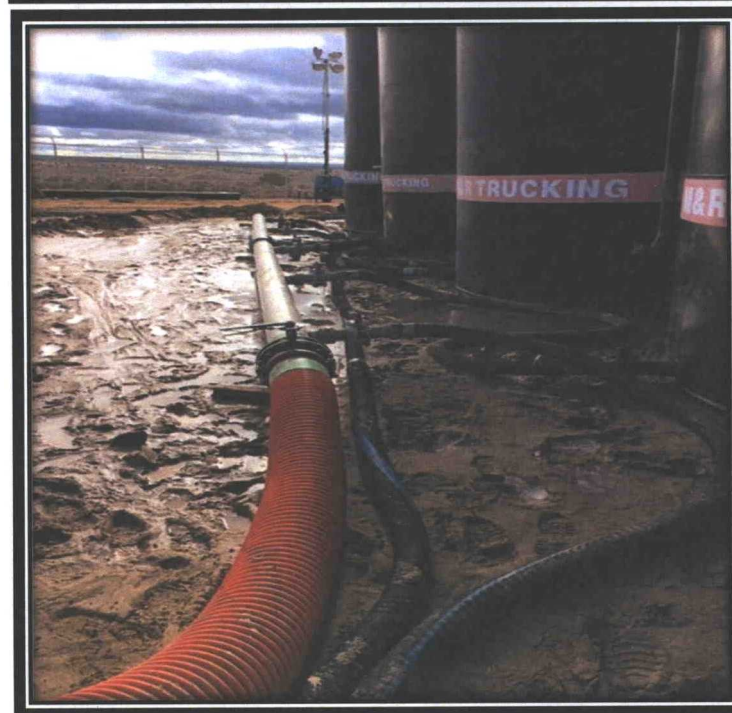
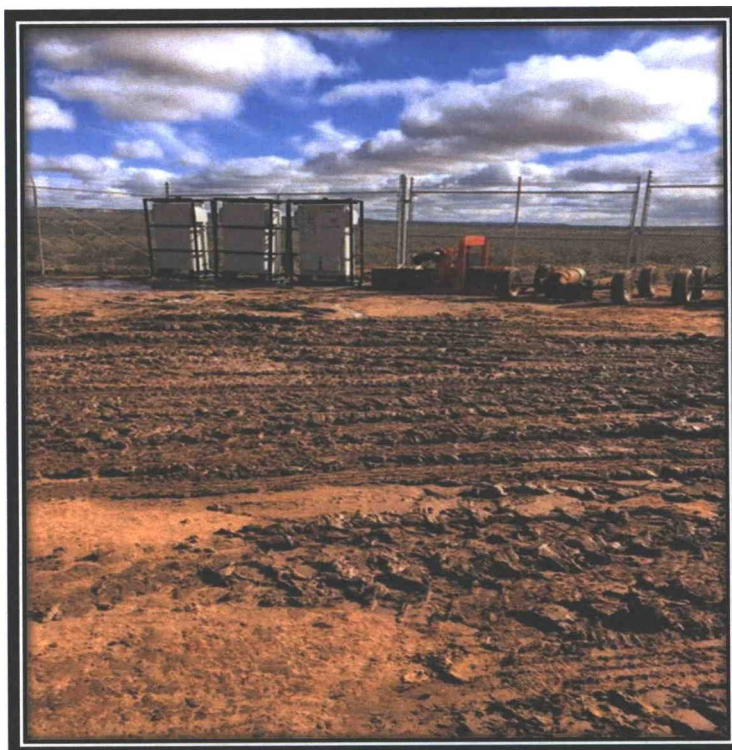
Returned results were below regulatory standards for this location See attached *"Analytical Report"*. Location was ranked by a cathodic that was drilled at the North Escavada 329H, determining ground water to be approximately 295 Ft. below surface of location of release. This set the standards to 50 ppm BTEX, 10 ppm Benzene, 1,000 ppm GRO+DRO, 2,500 ppm TPH (GRO/DRO/ORO), and 20,000 ppm Chlorides. No remediation is required at this time. See attached *"Depth to ground water proof"*.

There are areas of the release that did not meet the 600 mg/kg reclamation requirement, however these areas are currently in use for the exploration and production of oil and gas. Once the areas are no longer in use or at final abandon, Enduring Resources will return to the impacted areas and ensure the area is remediated per 19.15.29 NMAC.



Enduring Resources, LLC
Spill Closure Report
NEU 2207 16B Pond
3RF-28

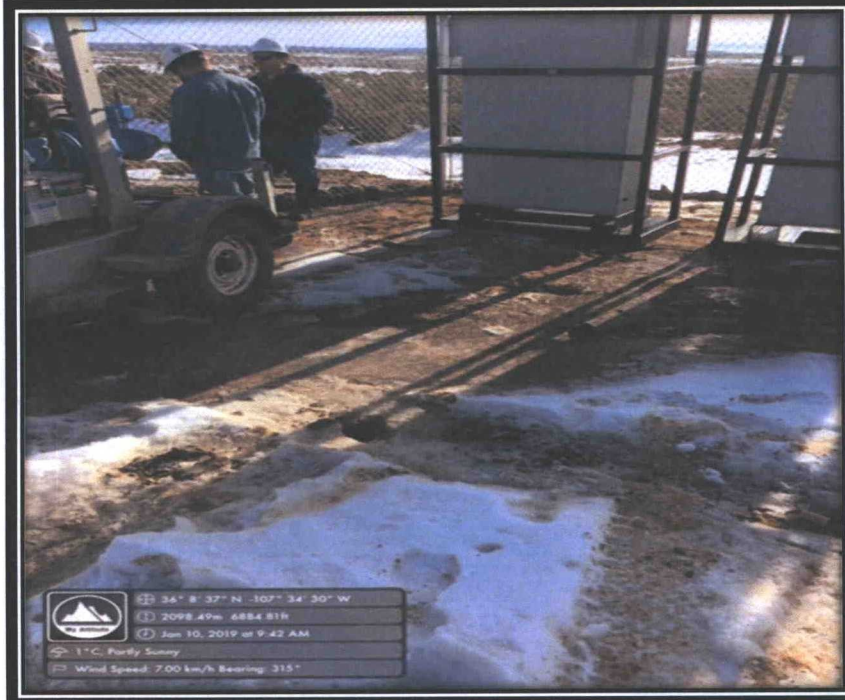
Photos: Impacted area





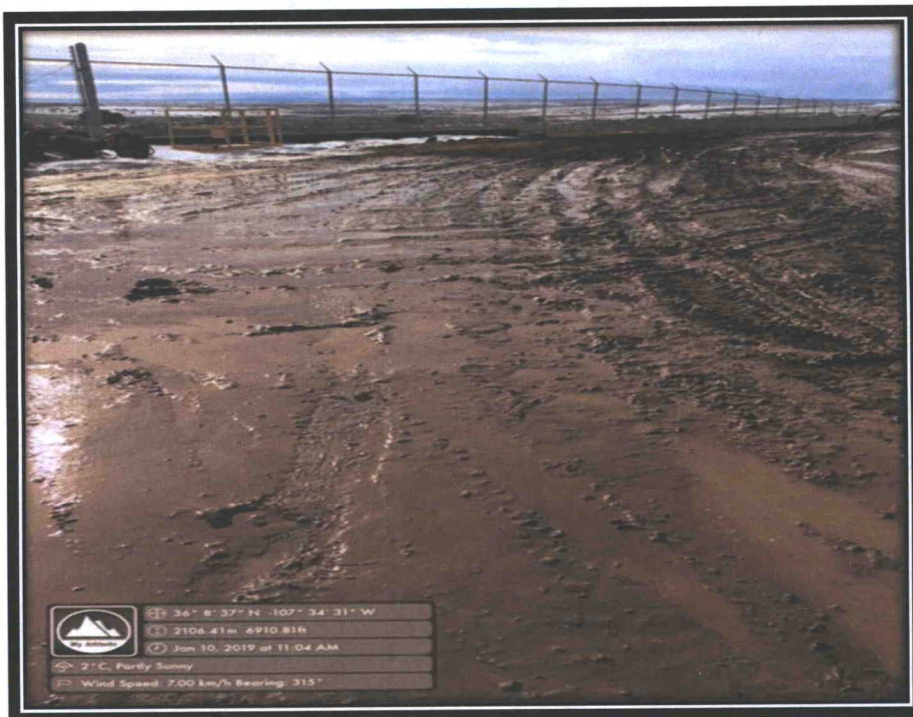
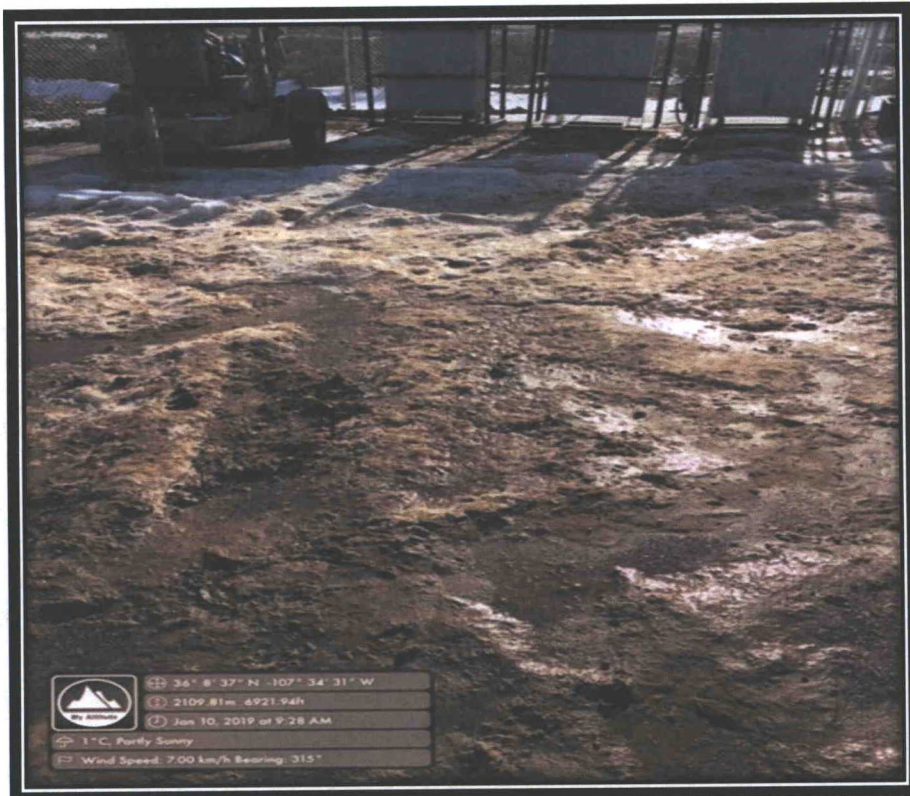
Enduring Resources, LLC
Spill Closure Report
NEU 2207 16B Pond
3RF-28

Photo: Sampling photos



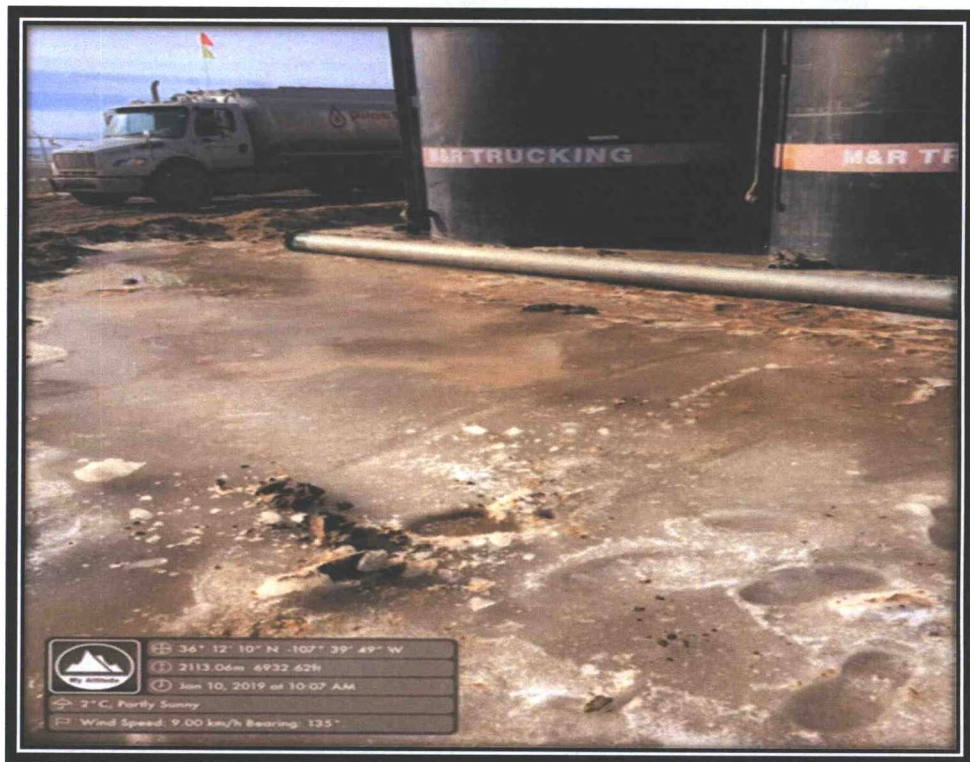


Enduring Resources, LLC
Spill Closure Report
NEU 2207 16B Pond
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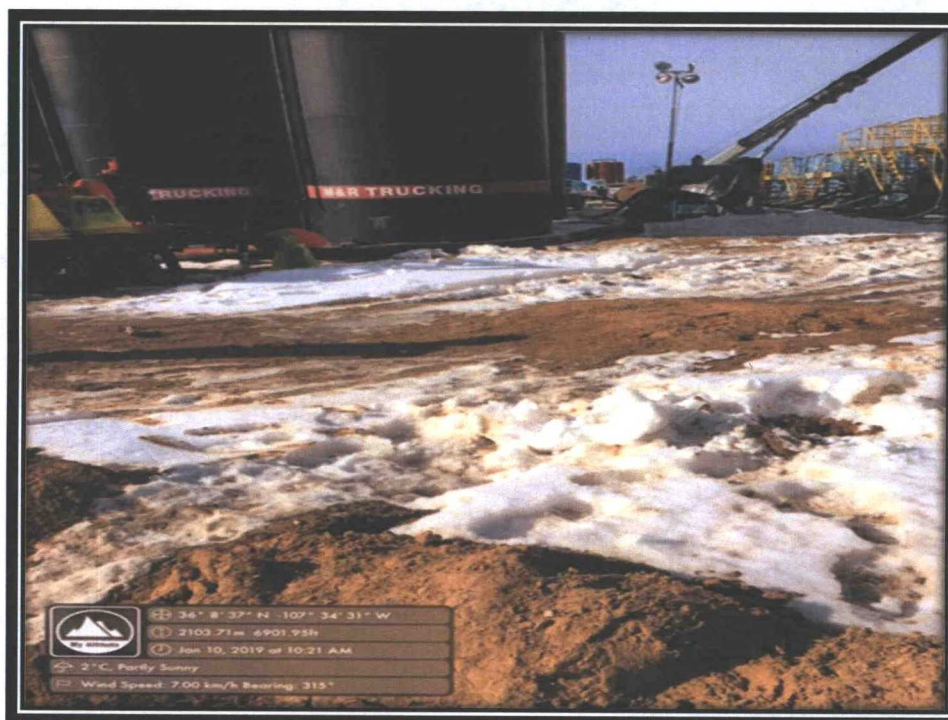
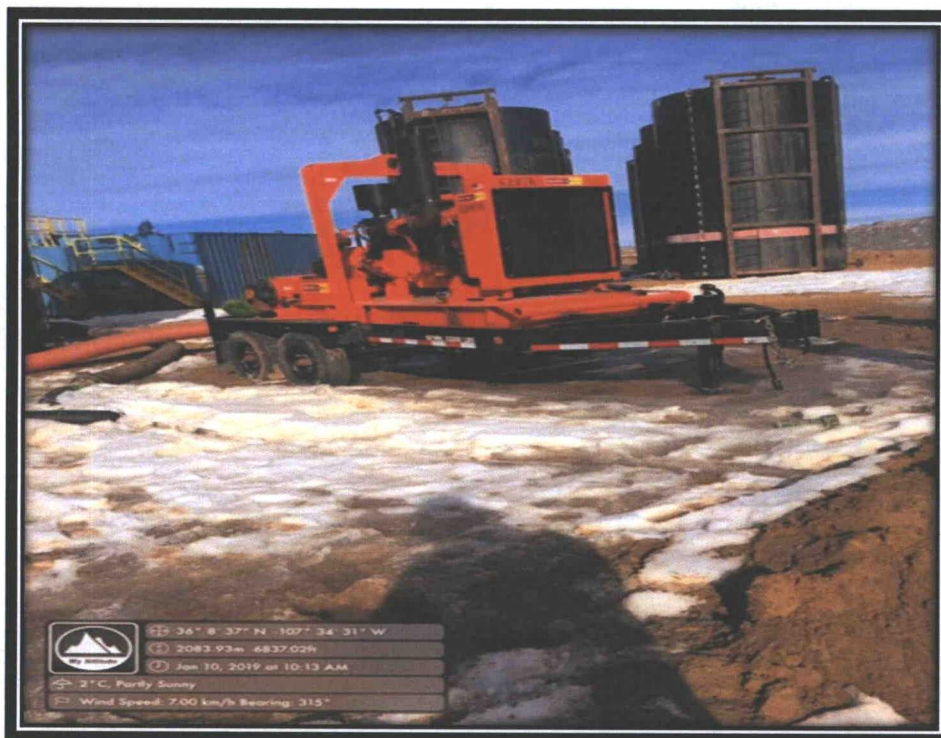


Enduring Resources, LLC
Spill Closure Report
NEU 2207 16B Pond
3RF-28



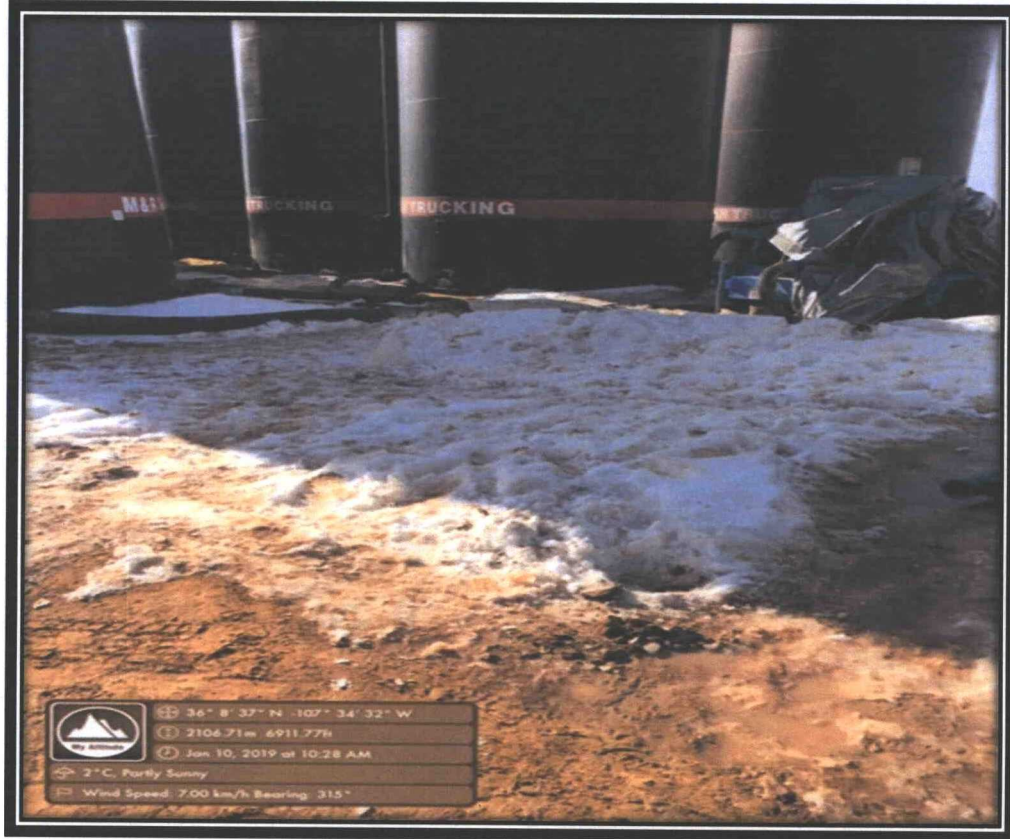


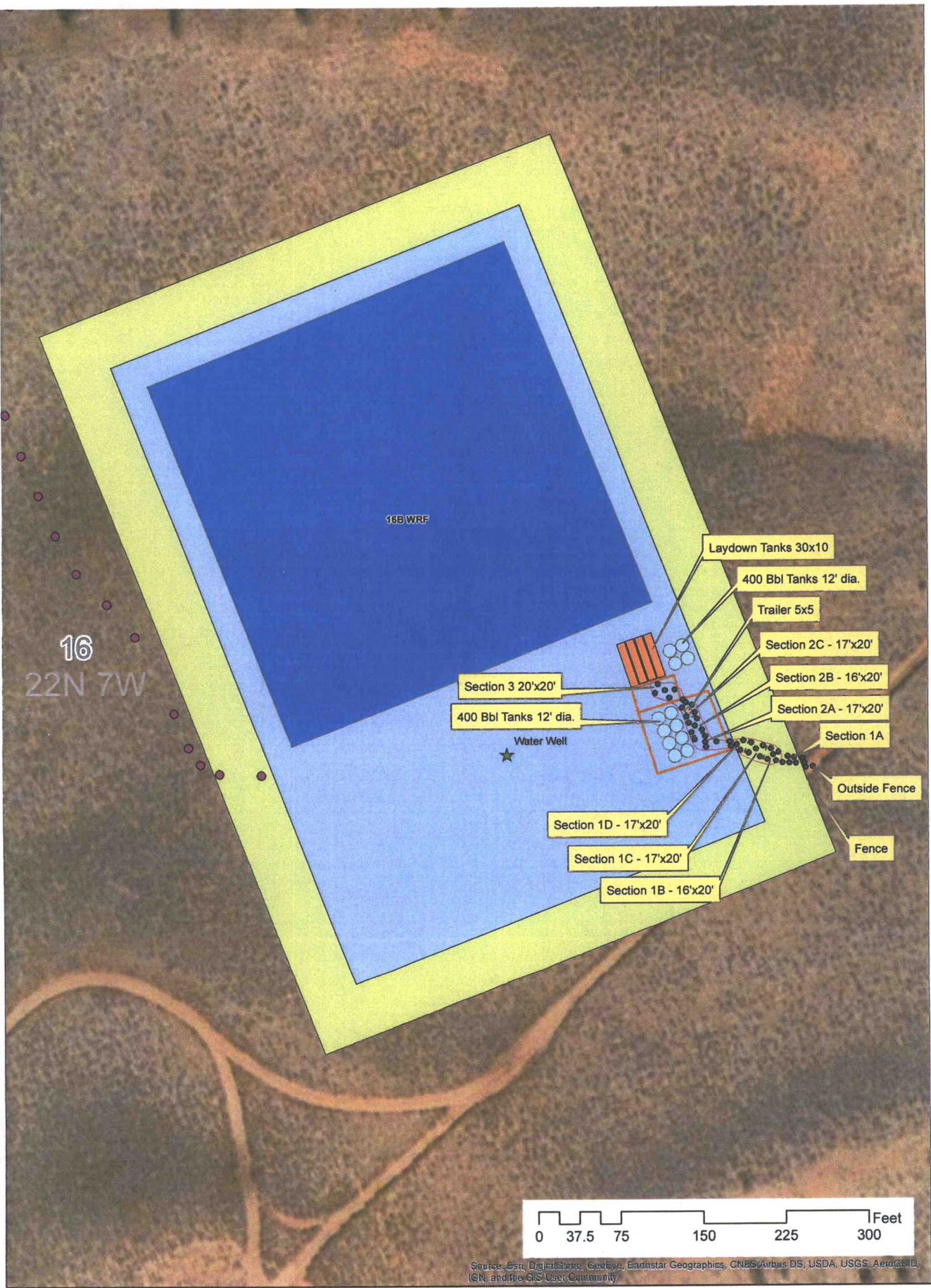
Enduring Resources, LLC
Spill Closure Report
NEU 2207 16B Pond
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Enduring Resources, LLC
Spill Closure Report
NEU 2207 16B Pond
3RF-28





- Pipeline Points
- Sample Points
- 12' diameter tank
- AOI
- Berm
- Laydown tank
- Trailer
- Pad
- Constr Disturb
- Pond

NEU 2207-16B

Water Facility

Updated: 3/25/2019



36.144262 -107.576376 X Q

Show search results for 36.144...

Measurement

Feet

Measurement Result

1,504.2 Feet

Clear

Press CTRL to enable snapping

Search result

Y:36.144262 X:-107.576376

Zoom to

200m
600ft

-107.58465 36.13867 Degrees

Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NA

NEU 2207 16B Sample Results Table

Sample Name	Description	Date	Time	DRO	GRO	DRO+ GRO	ORO	Total TPH	Benzene	Toluene	Ethylbenzen	Xylenes	Total BTEX	Chlorides
STANDARD	>100 feet to GW	NA	NA	NA	NA	1000	NA	2500	10	NA	NA	NA	50	20,000
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Outside Fence	Composite	1/10/2019	9:20 AM	37	< 0.128	37	7.13	44.1	< 0.000641	< 0.00641	< 0.000641	< 0.00192	< 0.009612	292
Section 1A	Composite	1/10/2019	9:25 AM	11.4	< 0.124	11.52	16.1	27.6	< 0.000620	< 0.00620	< 0.00620	< 0.00186	< 0.0093	395
Section 1B	Composite	1/10/2019	9:30 AM	27.1	< 0.124	27.22	23.5	50.7	< 0.000622	< 0.00622	< 0.000622	< 0.00187	< 0.009334	125
Section 1C	Composite	1/10/2019	9:35 AM	156	2.58	158.6	12.8	171.4	< 0.000636	< 0.00636	0.0044	0.0193	0.030696	563
Section 1D	Composite	1/10/2019	9:40 AM	20.2	< 0.128	20.33	22.4	42.7	< 0.000640	< 0.00640	< 0.000640	< 0.00192	< 0.0096	332
Section 2A	Composite	1/10/2019	10:25 AM	< 4.95	0.143	5.093	< 4.95	10.0	0.00516	< 0.00619	0.00391	0.015	0.03026	661
Section 2B	Composite	1/10/2019	10:30 AM	25	< 0.122	25.12	24.4	49.5	0.000826	< 0.00609	< 0.000609	0.00229	0.009815	1110
Section 2C	Composite	1/10/2019	10:21 AM	< 4.8	< 0.120	< 4.92	6.01	10.9	< 0.000600	< 0.00600	< 0.000600	< 0.00180	0.007875	1360
Section 3	Composite	1/14/2019	9:30 AM	28.4	< 0.129	28.52	11.7	40.2	< 0.000643	< 0.00643	< 0.000643	0.00298	0.010696	997

CLOSURE SAMPLES

Ground Bed Drilling Log

Company: WPX Energy Well: North Escalada UT# 329H Date: 10-12-2016
 Location: Sic 10 T 32 N P 2 W State: New Mexico Rig: Stang #1
 Ground Bed Depth: 340' Water Depth: 0 Diameter: 10"
 Fuel: 88 gal. Latitude: 36.146522 Longitude: -107.56754

DEPTH

FORMATION

OTHER

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

GROUNDWATER DEPTH LOG

Company: WPX Energy		Location: North Escalada UT# 329H	
		Lat/Long: 36.146522/-107.56754	
		Elevation:	
Probe type: Powerwell Sander			
Casing Installation Method:		Push	
Required Test Depths 30', 55', & 105' unless otherwise requested			
Date	Time	Depth	Comments
10-12-16	10 am	30'	drilled 30'
	11 am	30'	tested no water
	11:30	55'	drilled to 55'
	12:30	55'	tested No water
	1:45	105'	drilled to 105'
	2:45	105'	tested NO water set 60' casing
10-13-16	8:30 am	105'	No water
	11:45	340'	finished anode bed





Registered Mines in New Mexico

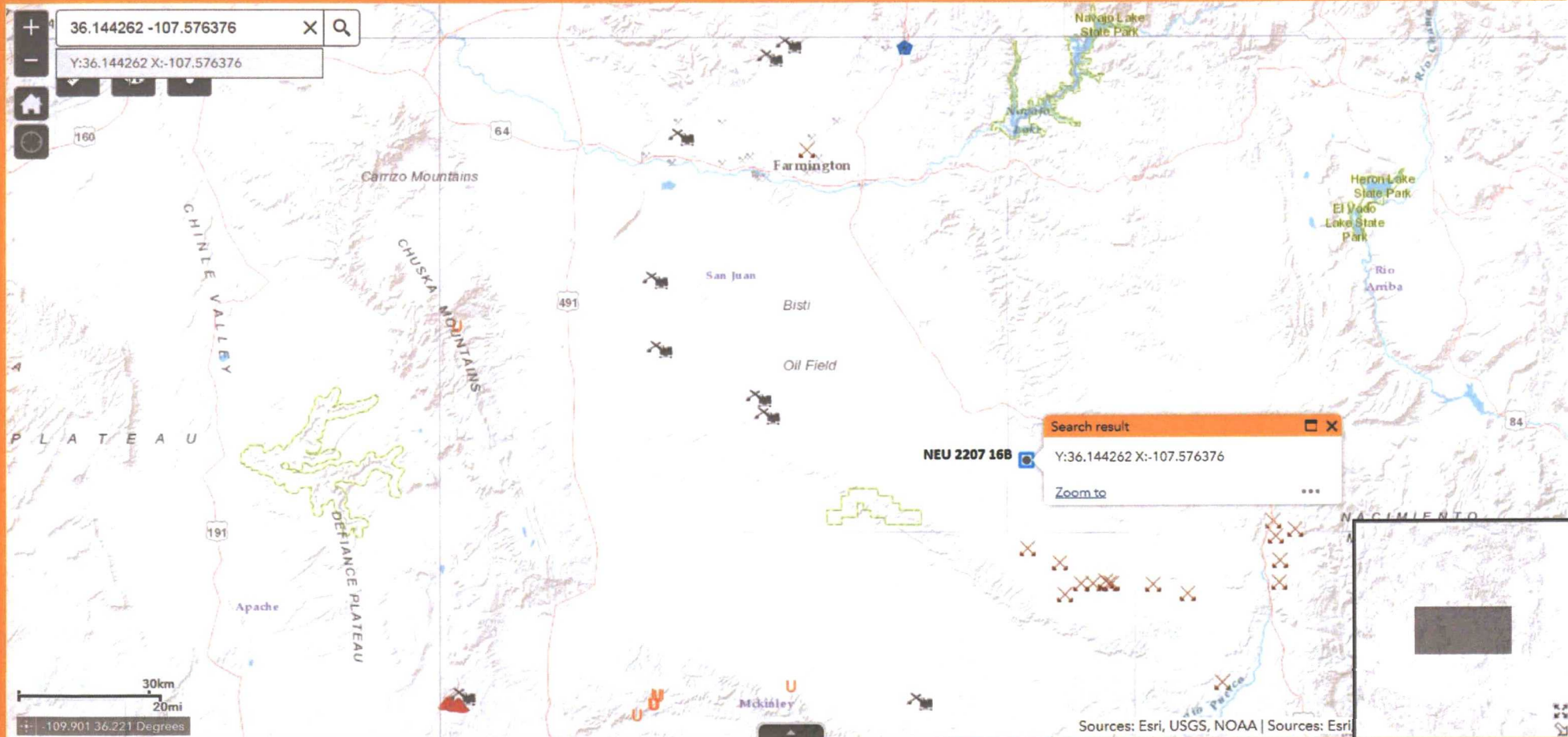
NM Mining and Minerals Division

EMNRD Home Help



36.144262 -107.576376 X Q

Y:36.144262 X:-107.576376



Sources: Esri, USGS, NOAA | Sources: Esri

All rights reserved

National Flood Hazard Layer FIRMette



36°8'52.75"N

107°34'53.06"W

Navajo Indian Reservation
350THR

TT22N RR07W S9

NEU 2207 16B Pond

AREA OF MINIMAL FLOOD HAZARD
Zone X

Sandoval County
350055

35043C0050D
Teff: 3/18/2008

USGS The National Map: Orthoimagery. Data refreshed October, 2017.

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

SPECIAL FLOOD HAZARD AREAS

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

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

- NO SCREEN Area of Minimal Flood Hazard Zone X
- Effective LOMRs
- Area of Undetermined Flood Hazard Zone D
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

- Cross Sections with 1% Annual Chance Water Surface Elevation 17.5
- Coastal Transect Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature



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

Water features or amendments subsequent to the date of time. The NFHL and effective information may change or become superseded by new data over time.

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

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

36°8'23.69"N

107°34'15.60"W



National Wetlands Inventory

surface waters and wetlands

ABOUT

GET DATA

PRINT

FIND LOCATION

BASEMAPS >

MAP LAYERS >

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



Measure

Feet

Measurement Result

1,322.5 Feet

LEGEND

1:9,028
36.146 | -107.594

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

POWERED BY
esri

Chad Snell

From: Chad Snell
Sent: Friday, November 16, 2018 7:35 AM
To: 'Smith, Cory, EMNRD'; Fields, Vanessa, EMNRD
Cc: John Dockter, James McDaniel
Subject: RE: NEU2207-16B incident#nCS1831938444

Cory,

Yes, lets schedule for Tuesday the 20th at 9:00am.

From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Sent: Thursday, November 15, 2018 3:23 PM
To: Chad Snell <CSnell@enduringresources.com>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>
Cc: John Dockter <JDockter@enduringresources.com>; James McDaniel <JMcDaniel@enduringresources.com>
Subject: RE: NEU2207-16B incident#nCS1831938444

Chad,

Any chance we can do Tuesday the 20th? Our office is going to be short staffed and I wont be able to make sampling Wednesday.

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

From: Chad Snell <CSnell@enduringresources.com>
Sent: Thursday, November 15, 2018 3:20 PM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>
Cc: John Dockter <JDockter@enduringresources.com>; James McDaniel <JMcDaniel@enduringresources.com>
Subject: [EXT] NEU2207-16B incident#nCS1831938444

Cory/Vanessa,

Please accept the following email as the required notification for confirmation soil sampling at the NEU2207-16B Recycling facility incident# nCS1831938444. Sample activities will be performed at 9:00am Wednesday November 21th.

Thanks.

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

Chad Snell

From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Sent: Monday, January 14, 2019 1:55 PM
To: Chad Snell
Cc: James McDaniel; John Dockter
Subject: RE: NEU 2207 16B NCS1900850599

Follow Up Flag: Follow up
Flag Status: Flagged

Chad,

OCD approves Enduring's sampling, please include this approval in your final C-141.

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

From: Chad Snell <CSnell@enduringresources.com>
Sent: Monday, January 14, 2019 1:44 PM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: James McDaniel <JMcDaniel@enduringresources.com>; John Dockter <JDockter@enduringresources.com>
Subject: [EXT] NEU 2207 16B NCS1900850599

Cory,

As discussed this morning you were not able to witness a resample of one of the sample locations at the NEU 2207 16B pond that was sampled on Thursday January 10th 2019. The reason for a resample was one of the sections, "Section3" (next to laydown tanks) had broken during transport to the lab. The new sample was taken today Monday 1/14/2019. If you have any question please let me know.

Thank you.

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

ANALYTICAL REPORT

January 18, 2019

Enduring Resources

Sample Delivery Group: L1060386

Samples Received: 01/11/2019

Project Number:

Description: NEU 2207 16B

Report To:

John Dockter

200 Energy Court

Farmington, NM 87401

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 National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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ONE LAB. NATIONWIDE.



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SAMPLE SUMMARY

ONE LAB. NATIONWIDE



OUTSIDE FENCE L1060386-01 Solid

Collected by
John Dockter

Collected date/time
01/10/19 09:50

Received date/time
01/11/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1223606	1	01/15/19 14:27	01/15/19 14:47	KBC
Wet Chemistry by Method 9056A	WG1222536	1	01/17/19 14:15	01/18/19 10:59	ELN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1223441	1	01/12/19 18:29	01/15/19 17:30	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1222953	1	01/16/19 06:02	01/16/19 12:37	KME

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

SECTION 1:A L1060386-02 Solid

Collected by
John Dockter

Collected date/time
01/10/19 09:42

Received date/time
01/11/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1223606	1	01/15/19 14:27	01/15/19 14:47	KBC
Wet Chemistry by Method 9056A	WG1222536	1	01/17/19 14:15	01/18/19 11:07	ELN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1223441	1	01/12/19 18:29	01/15/19 17:54	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1222953	1	01/16/19 06:02	01/16/19 13:53	KME

SECTION 1:B L1060386-03 Solid

Collected by
John Dockter

Collected date/time
01/10/19 09:28

Received date/time
01/11/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1223606	1	01/15/19 14:27	01/15/19 14:47	KBC
Wet Chemistry by Method 9056A	WG1222536	1	01/17/19 14:15	01/18/19 11:16	ELN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1223441	1	01/12/19 18:29	01/15/19 18:19	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1222953	1	01/16/19 06:02	01/16/19 13:37	KME

SECTION 1:C L1060386-04 Solid

Collected by
John Dockter

Collected date/time
01/10/19 09:55

Received date/time
01/11/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1223606	1	01/15/19 14:27	01/15/19 14:47	KBC
Wet Chemistry by Method 9056A	WG1222536	1	01/17/19 14:15	01/18/19 11:25	ELN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1224256	1	01/12/19 18:29	01/16/19 14:15	JAH
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1222953	1	01/16/19 06:02	01/16/19 13:22	KME

SECTION 1:D L1060386-05 Solid

Collected by
John Dockter

Collected date/time
01/10/19 09:59

Received date/time
01/11/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1223606	1	01/15/19 14:27	01/15/19 14:47	KBC
Wet Chemistry by Method 9056A	WG1222536	1	01/17/19 14:15	01/18/19 11:34	ELN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1223441	1	01/12/19 18:29	01/15/19 19:07	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1222953	1	01/16/19 06:02	01/16/19 13:06	KME

SECTION 2:A L1060386-06 Solid

Collected by
John Dockter

Collected date/time
01/10/19 10:07

Received date/time
01/11/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1223606	1	01/15/19 14:27	01/15/19 14:47	KBC
Wet Chemistry by Method 9056A	WG1222536	1	01/17/19 14:15	01/18/19 11:42	ELN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1223441	1	01/12/19 18:29	01/15/19 19:31	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1222953	1	01/16/19 06:02	01/16/19 11:23	KME

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



SECTION 2:B L1060386-07 Solid

Collected by
John Dockter

Collected date/time
01/10/19 10:13

Received date/time
01/11/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1223608	1	01/15/19 14:09	01/15/19 14:22	KBC
Wet Chemistry by Method 9056A	WG1222536	1	01/17/19 14:15	01/18/19 11:51	ELN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1223441	1	01/12/19 18:29	01/15/19 19:55	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1222953	1	01/16/19 06:02	01/16/19 12:52	KME

¹ Cp

² Tc

³ Ss

⁴ Cn

SECTION 2:C L1060386-08 Solid

Collected by
John Dockter

Collected date/time
01/10/19 10:21

Received date/time
01/11/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1223608	1	01/15/19 14:09	01/15/19 14:22	KBC
Wet Chemistry by Method 9056A	WG1224912	5	01/17/19 14:00	01/18/19 08:27	ELN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1223441	1	01/12/19 18:29	01/15/19 20:20	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1222953	1	01/16/19 06:02	01/16/19 11:37	KME

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



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

Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

OUTSIDE FENCE

Collected date/time: 01/10/19 09:50

SAMPLE RESULTS - 01

L1060386

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	78.0		1	01/15/2019 14:47	WG1223606

Cp

Tc

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	292		12.8	1	01/18/2019 10:59	WG1222536

Ss

Cn

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	ND		0.000641	1	01/15/2019 17:30	WG1223441
Toluene	ND		0.00641	1	01/15/2019 17:30	WG1223441
Ethylbenzene	ND		0.000641	1	01/15/2019 17:30	WG1223441
Total Xylene	ND		0.00192	1	01/15/2019 17:30	WG1223441
TPH (GC/FID) Low Fraction	ND		0.128	1	01/15/2019 17:30	WG1223441
(S) o,a,o-Trifluorotoluene(FID)	93.4		77.0-120		01/15/2019 17:30	WG1223441
(S) o,a,o-Trifluorotoluene(PID)	102		72.0-128		01/15/2019 17:30	WG1223441

Sr

Qc

GI

AI

Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	37.3		5.13	1	01/16/2019 12:37	WG1222953
C28-C40 Oil Range	7.13		5.13	1	01/16/2019 12:37	WG1222953
(S) o-Terphenyl	73.2		18.0-148		01/16/2019 12:37	WG1222953

SECTION 1:A

Collected date/time: 01/10/19 09:42

SAMPLE RESULTS - 02

L1060386

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.7		1	01/15/2019 14:47	WG1223606

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	395		12.4	1	01/18/2019 11:07	WG122536

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.000620	1	01/15/2019 17:54	WG1223441
Toluene	ND		0.00620	1	01/15/2019 17:54	WG1223441
Ethylbenzene	ND		0.000620	1	01/15/2019 17:54	WG1223441
Total Xylene	ND		0.00186	1	01/15/2019 17:54	WG1223441
TPH (GC/FID) Low Fraction	ND		0.124	1	01/15/2019 17:54	WG1223441
(S) <i>o,o,o</i> -Trifluorotoluene(FID)	91.4		77.0-120		01/15/2019 17:54	WG1223441
(S) <i>o,o,o</i> -Trifluorotoluene(PID)	99.9		72.0-128		01/15/2019 17:54	WG1223441

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	11.4		4.96	1	01/16/2019 13:53	WG1222953
C28-C40 Oil Range	16.1		4.96	1	01/16/2019 13:53	WG1222953
(S) <i>o</i> -Terphenyl	73.8		18.0-148		01/16/2019 13:53	WG1222953

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

SECTION 1:B

Collected date/time: 01/10/19 09:28

SAMPLE RESULTS - 03

L1060386

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.4		1	01/15/2019 14:47	WG1223606

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	125		12.4	1	01/18/2019 11:16	WG1222536

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000622	1	01/15/2019 18:19	WG1223441
Toluene	ND		0.00622	1	01/15/2019 18:19	WG1223441
Ethylbenzene	ND		0.000622	1	01/15/2019 18:19	WG1223441
Total Xylene	ND		0.00187	1	01/15/2019 18:19	WG1223441
TPH (GC/FID) Low Fraction	ND		0.124	1	01/15/2019 18:19	WG1223441
(S) o,p,p'-Trifluorotoluene(FID)	93.5		77.0-120		01/15/2019 18:19	WG1223441
(S) o,p,p'-Trifluorotoluene(PID)	101		72.0-128		01/15/2019 18:19	WG1223441

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	27.1		4.98	1	01/16/2019 13:37	WG1222953
C28-C40 Oil Range	23.5		4.98	1	01/16/2019 13:37	WG1222953
(S) o-Terphenyl	75.2		18.0-148		01/16/2019 13:37	WG1222953

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

SECTION 1:C

SAMPLE RESULTS - 04

ONE LAB. NATIONWIDE.



Collected date/time: 01/10/19 09:55

L1060386

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.7		1	01/15/2019 14:47	WG1223606

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	563		12.7	1	01/18/2019 11:25	WG1222536

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000636	1	01/16/2019 14:15	WG1224256
Toluene	ND		0.00636	1	01/16/2019 14:15	WG1224256
Ethylbenzene	0.00440	V3	0.000636	1	01/16/2019 14:15	WG1224256
Total Xylene	0.0193	V3	0.00191	1	01/16/2019 14:15	WG1224256
TPH (GC/FID) Low Fraction	2.58	V3	0.127	1	01/16/2019 14:15	WG1224256
(S) o,o,o-Trifluorotoluene(FID)	97.1		77.0-120		01/16/2019 14:15	WG1224256
(S) o,o,o-Trifluorotoluene(PID)	94.8		72.0-128		01/16/2019 14:15	WG1224256

Sample Narrative:

L1060386-04 WG1224256: Previous run also had low IS/SURR recovery. Matrix effect.

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	156		5.09	1	01/16/2019 13:22	WG1222953
C28-C40 Oil Range	12.8		5.09	1	01/16/2019 13:22	WG1222953
(S) o-Terphenyl	83.0		18.0-148		01/16/2019 13:22	WG1222953

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

SECTION 1:D

Collected date/time: 01/10/19 09:59

SAMPLE RESULTS - 05

L1060386

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.1		1	01/15/2019 14:47	WG1223606

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	332		12.8	1	01/18/2019 11:34	WG1222536

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000640	1	01/15/2019 19:07	WG1223441
Toluene	ND		0.00640	1	01/15/2019 19:07	WG1223441
Ethylbenzene	ND		0.000640	1	01/15/2019 19:07	WG1223441
Total Xylene	ND	<u>J6</u>	0.00192	1	01/15/2019 19:07	WG1223441
TPH (GC/FID) Low Fraction	ND	<u>J3</u>	0.128	1	01/15/2019 19:07	WG1223441
(S) o,a,a-Trifluorotoluene(FID)	91.5		77.0-120		01/15/2019 19:07	WG1223441
(S) o,a,a-Trifluorotoluene(PID)	99.7		72.0-128		01/15/2019 19:07	WG1223441

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	20.2		5.12	1	01/16/2019 13:06	WG1222953
C28-C40 Oil Range	22.4		5.12	1	01/16/2019 13:06	WG1222953
(S) o-Terphenyl	66.2		18.0-148		01/16/2019 13:06	WG1222953

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

SECTION 2:A

Collected date/time: 01/10/19 10:07

SAMPLE RESULTS - 06

L1060386

ONE LAB. NATIONWIDE



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.8		1	01/15/2019 14:47	WG1223606

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	661		12.4	1	01/18/2019 11:42	WG1222536

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.00516		0.000619	1	01/15/2019 19:31	WG1223441
Toluene	ND		0.00619	1	01/15/2019 19:31	WG1223441
Ethylbenzene	0.00391		0.000619	1	01/15/2019 19:31	WG1223441
Total Xylene	0.0150		0.00186	1	01/15/2019 19:31	WG1223441
TPH (GC/FID) Low Fraction	0.143		0.124	1	01/15/2019 19:31	WG1223441
(S) o,o,o-Trifluorotoluene(FID)	93.2		77.0-120		01/15/2019 19:31	WG1223441
(S) o,o,o-Trifluorotoluene(PID)	101		72.0-128		01/15/2019 19:31	WG1223441

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	01/16/2019 11:23	WG1222953
C28-C40 Oil Range	ND		4.95	1	01/16/2019 11:23	WG1222953
(S) o-Terphenyl	58.5		18.0-148		01/16/2019 11:23	WG1222953

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

SECTION 2:B

SAMPLE RESULTS - 07

ONE LAB. NATIONWIDE.



Collected date/time: 01/10/19 10:13

L1060386

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.1		1	01/15/2019 14:22	WG1223608

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	1110	<u>J3</u>	12.2	1	01/18/2019 11:51	WG1222536

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	0.000826		0.000609	1	01/15/2019 19:55	WG1223441
Toluene	ND		0.00609	1	01/15/2019 19:55	WG1223441
Ethylbenzene	ND		0.00609	1	01/15/2019 19:55	WG1223441
Total Xylene	0.00229	<u>B</u>	0.00183	1	01/15/2019 19:55	WG1223441
TPH (GC/FID) Low Fraction	ND		0.122	1	01/15/2019 19:55	WG1223441
(S) o,p,o-Trifluorotoluene(FID)	92.6		77.0-120		01/15/2019 19:55	WG1223441
(S) o,p,o-Trifluorotoluene(PID)	100		72.0-128		01/15/2019 19:55	WG1223441

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	25.0		4.87	1	01/16/2019 12:52	WG1222953
C28-C40 Oil Range	24.4		4.87	1	01/16/2019 12:52	WG1222953
(S) o-Terphenyl	79.8		18.0-148		01/16/2019 12:52	WG1222953

Cp

Tc

Ss

Cn

Sr

Qc

GI

Al

Sc

SECTION 2:C

Collected date/time: 01/10/19 10:21

SAMPLE RESULTS - 08

L1060386

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.3		1	01/15/2019 14:22	WG1223608

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	1360		60.0	5	01/18/2019 08:27	WG1224912

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000600	1	01/15/2019 20:20	WG1223441
Toluene	ND		0.00600	1	01/15/2019 20:20	WG1223441
Ethylbenzene	ND		0.000600	1	01/15/2019 20:20	WG1223441
Total Xylene	ND		0.00180	1	01/15/2019 20:20	WG1223441
TPH (GC/FID) Low Fraction	ND		0.120	1	01/15/2019 20:20	WG1223441
(S) a,a,a-Trifluorotoluene(FID)	92.8		77.0-120		01/15/2019 20:20	WG1223441
(S) a,a,a-Trifluorotoluene(PID)	100		72.0-128		01/15/2019 20:20	WG1223441

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	ND		4.80	1	01/16/2019 11:37	WG1222953
C28-C40 Oil Range	6.01		4.80	1	01/16/2019 11:37	WG1222953
(S) o-Terphenyl	70.8		18.0-148		01/16/2019 11:37	WG1222953

Cp

Tc

Ss

Cn

Sr

Qc

GI

AI

Sc

WG1223606

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY

[L1060386-01,02,03,04,05,06](#)

ONE LAB. NATIONWIDE



Method Blank (MB)

(MB) R3376227-1 01/15/19 14:47

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

L1060384-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1060384-03 01/15/19 14:47 • (DUP) R3376227-3 01/15/19 14:47

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	79.3	79.3	1	0.120		10

Laboratory Control Sample (LCS)

(LCS) R3376227-2 01/15/19 14:47

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

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc

WG1223608

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

[L1060386-07,08](#)

Method Blank (MB)

(MB) R3376221-1 01/15/19 14:22

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

L1060386-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1060386-08 01/15/19 14:22 • (DUP) R3376221-3 01/15/19 14:22

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	83.3	83.3	1	0.0510		10

Laboratory Control Sample (LCS)

(LCS) R3376221-2 01/15/19 14:22

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

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

WG1222536

Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

L1060386-01,02,03,04,05,06,07

ONE LAB. NATIONWIDE



Method Blank (MB)

(MB) R3376911-1 01/17/19 17:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	4.82	J	0.795	10.0

L1060249-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1060249-11 01/18/19 09:29 • (DUP) R3376911-7 01/18/19 09:37

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Chloride	3530	3290	5	6.88		15

L1060386-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1060386-07 01/18/19 11:51 • (DUP) R3376911-8 01/18/19 12:00

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Chloride	1110	924	1	17.9	J3	15

Laboratory Control Sample (LCS)

(LCS) R3376911-2 01/17/19 18:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	215	108	80.0-120	

L1060249-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1060249-03 01/17/19 18:24 • (MS) R3376911-3 01/17/19 18:33 • (MSD) R3376911-4 01/17/19 18:42

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	598	3230	3640	2330	68.6	0.000	1	80.0-120	E V	E J3 V	44.1	15

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

WG1224912

Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

L1060386-08

ONE LAB. NATIONWIDE.



Method Blank (MB)

(MB) R3376949-1 01/18/19 07:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	5.24	J	0.795	10.0

L1061644-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1061644-01 01/18/19 10:06 • (DUP) R3376949-5 01/18/19 10:16

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Chloride	1430	1380	5	3.88		15

L1061910-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1061910-05 01/18/19 10:45 • (DUP) R3376949-6 01/18/19 10:55

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Chloride	547	572	1	4.47		15

Laboratory Control Sample (LCS)

(LCS) R3376949-2 01/18/19 07:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	213	106	80.0-120	

L1061642-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1061642-01 01/18/19 09:06 • (MS) R3376949-3 01/18/19 09:16 • (MSD) R3376949-4 01/18/19 09:46

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	500	1970	2430	2290	93.0	65.8	1	80.0-120	E	E J6	5.75	15

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3375908-5 01/15/19 11:30

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000120	0.000500
Toluene	0.000313	J	0.000150	0.00500
Ethylbenzene	U		0.000110	0.000500
Total Xylene	U		0.000460	0.00150
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S)				
<i>o,o,o</i> -Trifluorotoluene(FID)	94.8			77.0-120
(S)				
<i>o,o,o</i> -Trifluorotoluene(PID)	104			72.0-128

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3375908-1 01/15/19 09:29 • (LCSD) R3375908-2 01/15/19 09:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0455	0.0457	91.1	91.5	76.0-121			0.436	20
Toluene	0.0500	0.0452	0.0452	90.5	90.3	80.0-120			0.136	20
Ethylbenzene	0.0500	0.0486	0.0486	97.2	97.2	80.0-124			0.0284	20
Total Xylene	0.150	0.142	0.142	94.8	94.7	37.0-160			0.0703	20
(S)										
<i>o,o,o</i> -Trifluorotoluene(FID)				94.0	94.4	77.0-120				
(S)										
<i>o,o,o</i> -Trifluorotoluene(PID)				102	102	72.0-128				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3375908-3 01/15/19 10:18 • (LCSD) R3375908-4 01/15/19 10:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.23	5.27	95.0	95.9	72.0-127			0.875	20
(S)										
<i>o,o,o</i> -Trifluorotoluene(FID)				107	107	77.0-120				
(S)										
<i>o,o,o</i> -Trifluorotoluene(PID)				113	114	72.0-128				

Cp

Tc

Ss

Cn

Sr

Qc

GI

Al

Sc

WG1223441

Volatile Organic Compounds (GC) by Method 8015/8021

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE



L1060386-01,02,03,05,06,07,08

L1060386-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1060386-05 01/15/19 19:07 • (MS) R3375908-6 01/15/19 21:08 • (MSD) R3375908-7 01/15/19 21:32

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0640	ND	0.0461	0.0459	71.3	71.0	1	10.0-155			0.465	32
Toluene	0.0640	ND	0.0429	0.0425	66.2	65.5	1	10.0-160			1.12	34
Ethylbenzene	0.0640	ND	0.0439	0.0434	68.6	67.9	1	10.0-160			1.11	32
Total Xylene	0.192	ND	0.127	0.128	65.4	65.9	1	10.0-160	J6	J6	0.804	32
(S)					91.6	93.8		77.0-120				
a,a,a-Trifluorotoluene(FID)												
(S)					99.4	101		72.0-128				
a,a,a-Trifluorotoluene(PID)												

L1060386-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1060386-05 01/15/19 19:07 • (MS) R3375908-8 01/15/19 21:56 • (MSD) R3375908-9 01/15/19 22:21

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	7.04	ND	3.88	1.85	54.3	25.5	1	10.0-151		J3	70.8	28
(S)					94.5	92.4		77.0-120				
a,a,a-Trifluorotoluene(FID)												
(S)					103	103		72.0-128				
a,a,a-Trifluorotoluene(PID)												

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

ACCOUNT:

Enduring Resources

PROJECT:

SDG:

L1060386

DATE/TIME:

01/18/19 15:08

PAGE:

19 of 25



Method Blank (MB)

(MB) R3376643-3 01/16/19 13:31

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	0.000220	J	0.000120	0.000500
Toluene	0.000226	J	0.000150	0.00500
Ethylbenzene	U		0.000110	0.000500
Total Xylene	U		0.000460	0.00150
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S)				
<i>α,α,α</i> -Trifluorotoluene(FID)	102			77.0-120
(S)				
<i>α,α,α</i> -Trifluorotoluene(PID)	101			72.0-128

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3376643-1 01/16/19 12:02 • (LCSD) R3376643-2 01/16/19 12:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	6.06	6.20	110	113	72.0-127			2.31	20
(S)				110	109	77.0-120				
<i>α,α,α</i> -Trifluorotoluene(FID)										
(S)				108	106	72.0-128				
<i>α,α,α</i> -Trifluorotoluene(PID)										

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3376643-4 01/17/19 00:02 • (LCSD) R3376643-5 01/17/19 00:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0491	0.0529	98.1	106	76.0-121			7.51	20
Toluene	0.0500	0.0442	0.0473	88.4	94.6	80.0-120			6.77	20
Ethylbenzene	0.0500	0.0483	0.0520	96.5	104	80.0-124			7.44	20
Total Xylene	0.150	0.144	0.156	96.1	104	37.0-160			7.61	20
(S)										
<i>α,α,α</i> -Trifluorotoluene(FID)				102	102	77.0-120				
(S)										
<i>α,α,α</i> -Trifluorotoluene(PID)				101	102	72.0-128				

Cp

Tc

Ss

Cn

Sr

Qc

GI

Al

Sc

WG1222953

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Semi-Volatile Organic Compounds (GC) by Method 8015

[L1060386-01,02,03,04,05,06,07,08](#)

Method Blank (MB)

(MB) R3376289-1 01/16/19 10:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	87.8			18.0-148

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3376289-2 01/16/19 10:58 • (LCSD) R3376289-3 01/16/19 11:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Extractable Petroleum Hydrocarbon	50.0	34.8	35.1	69.6	70.2	50.0-150			0.858	20
C10-C28 Diesel Range	50.0	37.8	38.0	75.6	76.0	50.0-150			0.528	20
(S) o-Terphenyl				74.5	74.5	18.0-148				

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc



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.

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.
V3	The internal standard exhibited poor recovery due to sample matrix interference. The analytical results will be biased high. BDL results will be unaffected.

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

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-OS-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	EB7487	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	T 104704245-17-14
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

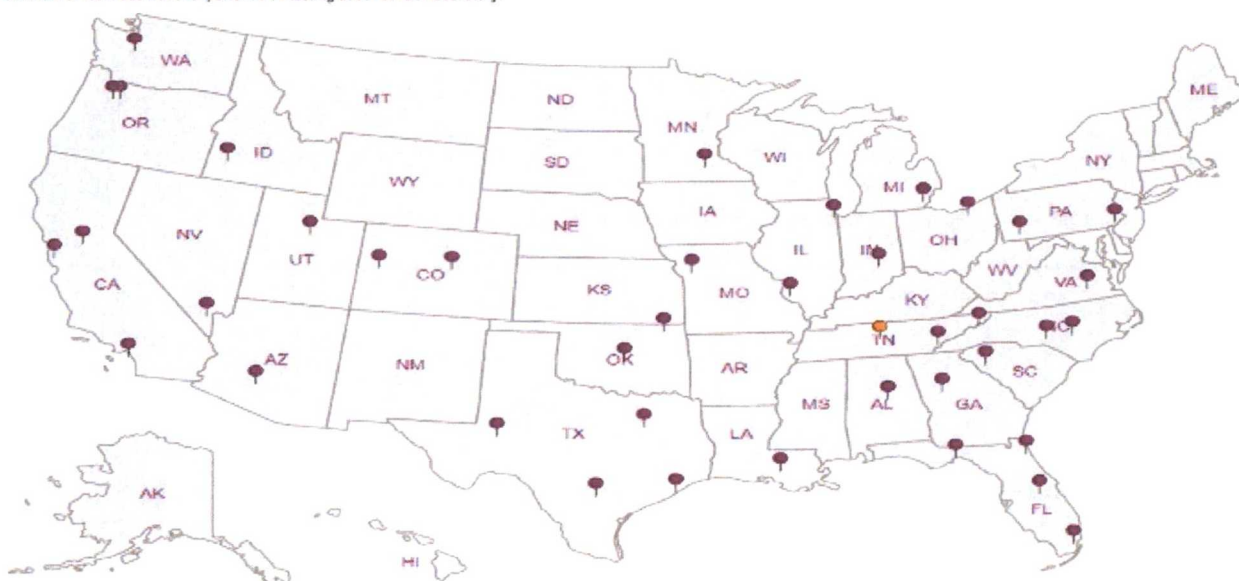
Third Party Federal Accreditations

A2LA - ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA - ISO 17025 ⁶	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:
L1060386

DATE/TIME:
01/18/19 15:08

PAGE:
23 of 25

Enduring Resources

332 County Road 3100 200 Energy Court
Aztec, NM 87410 Farmington, NM, 87401

Billing Information:

James McDaniel
332 County Road 3100 200 Energy Court
Aztec, NM 87410 Farmington, NM 87401

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1



LAB SCIENCES

a subsidiary of

12065 Lebanon Rd
Mount Juliet, TN 37122

Phone: 615-758-5558

Phone: 800-767-5859

Fax: 615-758-9859

Report to:
John Dockter

Email To:
jdockter@enduringresources.com

Project
Description: NEU 2207 10B

City/State
Collected:

Phone: 505-636-9731

Client Project #

Lab Project #

Fax:

Collected by (print):

Site/Facility ID #

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)

Quote #

Same Day Five Day
Next Day 5 Day (Rad Only)
Two Day 10 Day (Rad Only)
Three Day

Date Results Needed

No.
of

Immediately

Packed on Ice: N Y

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	1
outside fence	Comp	SS		1/10/19	9:50am	1
Section 1: A	Comp	SS		1/10/19	9:42am	1
Section 1: B	Comp	SS		1/10/19	9:28am	1
Section 1: C	Comp	SS		1/10/19	9:55am	1
Section 1: D	Comp	SS		1/10/19	9:59am	1
Section 2: A	Comp	SS		1/10/19	10:07am	1
Section 2: B	Comp	SS		1/10/19	10:13am	1
Section 2: C	Comp	SS		1/10/19	10:21am	1
Section 3	Comp	SS		1/10/19	10:28am	1

8021 (BTEX)

8015 (GRO/DRO/MRO)

Chlorides

RAD SCREEN: <0.5 mR/hr

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - Wastewater
DW - Drinking Water
OT - Other

Remarks:

Samples returned via:

UPS FedEx Courier

Tracking #

4196 3260 1677

pH Temp

Flow Other

Sample Receipt Checklist

COC Seal Present/Intact: ☒ Y ☐ N
COC Signed/Accurate: ☒ Y ☐ N
Bottles arrive intact: ☒ Y ☐ N
Correct bottles used: ☒ Y ☐ N
Sufficient volume sent: ☒ Y ☐ N
If Applicable
VGA Zero Headspace: ☒ Y ☐ N
Preservation Correct/Checked: ☒ Y ☐ N

Relinquished by: (Signature)

Date:

Time:

1/10/19

3:10pm

Received by: (Signature)

Trip Blank Received: Yes/No

HCL/MeOH

TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C

Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

Hold:

Condition:

WCF / OK

Troy Dunlap



Login #: L1060386	Client: ENDRESANM	Date: 1/11/19	Evaluated by: Troy Dunlap
-------------------	-------------------	---------------	---------------------------

Non-Conformance (check applicable items)

Sample Integrity	Chain of Custody Clarification		
Parameter(s) past holding time	Login Clarification Needed		If Broken Container:
Temperature not in range	Chain of custody is incomplete		Insufficient packing material around container
Improper container type	Please specify Metals requested.		Insufficient packing material inside cooler
pH not in range.	Please specify TCLP requested.	X	Improper handling by carrier (FedEx / UPS / Couri
Insufficient sample volume.	Received additional samples not listed on coc.		Sample was frozen
Sample is biphasic.	Sample ids on containers do not match ids on coc		Container lid not intact
Vials received with headspace.	Trip Blank not received.		If no Chain of Custody:
X Broken container	Client did not "X" analysis.		Received by:
Broken container:	Chain of Custody is missing		Date/Time:
Sufficient sample remains			Temp./Cont. Rec./pH:
			Carrier:
			Tracking#

Login Comments: Container for SECTION 3 received broken. Sample could not be salvaged. Sample is mixed with the cooler water.

Client informed by:	Call	Email	X	Voice Mail	X	Date: 1/11/19	Time: 1704
TSR Initials: DR	Client Contact: JD						

Login Instructions:

Notified client sample received broken and unable to analyze



ANALYTICAL REPORT

January 22, 2019

Enduring Resources

Sample Delivery Group: L1061171

Samples Received: 01/15/2019

Project Number:

Description: NEU 2207 16B

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

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 National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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ONE LAB. NATIONWIDE.



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SECTION 3 L1061171-01	5	
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Wet Chemistry by Method 9056A	7	
Volatile Organic Compounds (GC) by Method 8015/8021	8	Qc
Semi-Volatile Organic Compounds (GC) by Method 8015	9	Gl
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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



SECTION 3 L1061171-01 Solid

Collected by
Chad Snell

Collected date/time
01/14/19 09:30

Received date/time
01/15/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1224629	1	01/17/19 13:24	01/17/19 13:45	KDW
Wet Chemistry by Method 9056A	WG1224912	1	01/17/19 14:00	01/18/19 08:56	ELN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1224698	1	01/16/19 16:54	01/17/19 18:06	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1225329	1	01/17/19 21:30	01/18/19 13:31	AAT

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



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 Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

SECTION 3

Collected date/time: 01/14/19 09:30

SAMPLE RESULTS - 01

L1061171

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.7		1	01/17/2019 13:45	WG1224629

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	997		12.9	1	01/18/2019 08:56	WG1224912

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000643	1	01/17/2019 18:06	WG1224698
Toluene	ND		0.00643	1	01/17/2019 18:06	WG1224698
Ethylbenzene	ND		0.000643	1	01/17/2019 18:06	WG1224698
Total Xylene	0.00298		0.00193	1	01/17/2019 18:06	WG1224698
TPH (GC/FID) Low Fraction	ND		0.129	1	01/17/2019 18:06	WG1224698
(S) <i>o,o,o</i> -Trifluorotoluene(FID)	91.8		77.0-120		01/17/2019 18:06	WG1224698
(S) <i>o,o,o</i> -Trifluorotoluene(PID)	99.0		72.0-128		01/17/2019 18:06	WG1224698

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	28.4		5.15	1	01/18/2019 13:31	WG1225329
C28-C40 Oil Range	11.7		5.15	1	01/18/2019 13:31	WG1225329
(S) <i>o</i> -Terphenyl	83.7		18.0-148		01/18/2019 13:31	WG1225329

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

WG1224629

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

[L1061171-01](#)

Method Blank (MB)

(MB) R3376822-1 01/17/19 13:45

Analyte	MB Result %	<u>MB Qualifier</u>	MB MDL %	MB RDL %
Total Solids	0.00100			

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc

L1061142-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1061142-02 01/17/19 13:45 • (DUP) R3376822-3 01/17/19 13:45

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits
Total Solids	71.9	72.2	1	0.294		10

7
Gl8
Al9
Sc

Laboratory Control Sample (LCS)

(LCS) R3376822-2 01/17/19 13:45

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

WG1224912

Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Method Blank (MB)

(MB) R3376949-1 01/18/19 07:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	5.24	J	0.795	10.0

L1061644-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1061644-01 01/18/19 10:06 • (DUP) R3376949-5 01/18/19 10:16

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Chloride	1430	1380	5	3.88		15

L1061910-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1061910-05 01/18/19 10:45 • (DUP) R3376949-6 01/18/19 10:55

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Chloride	547	572	1	4.47		15

Laboratory Control Sample (LCS)

(LCS) R3376949-2 01/18/19 07:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	213	106	80.0-120	

L1061642-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1061642-01 01/18/19 09:06 • (MS) R3376949-3 01/18/19 09:16 • (MSD) R3376949-4 01/18/19 09:46

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	579	2280	2820	2660	93.0	65.8	1	80.0-120	E	E J6	5.75	15

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc

WG1224698

Volatile Organic Compounds (GC) by Method 8015/8021

QUALITY CONTROL SUMMARY

L1061171-01

ONE LAB. NATIONWIDE.



Method Blank (MB)

(MB) R3377469-5 01/17/19 11:28

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	0.000177	L	0.000120	0.000500
Toluene	0.000557	L	0.000150	0.00500
Ethylbenzene	0.000115	L	0.000110	0.000500
Total Xylene	U		0.000460	0.00150
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S)				
<i>o,o,o</i> -Trifluorotoluene(FID)	94.8			77.0-120
(S)				
<i>o,o,o</i> -Trifluorotoluene(PID)	104			72.0-128

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3377469-1 01/17/19 09:26 • (LCSD) R3377469-2 01/17/19 09:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0473	0.0467	94.6	93.4	76.0-121			1.21	20
Toluene	0.0500	0.0463	0.0456	92.7	91.1	80.0-120			1.72	20
Ethylbenzene	0.0500	0.0493	0.0486	98.5	97.2	80.0-124			1.41	20
Total Xylene	0.150	0.146	0.144	97.5	96.0	37.0-160			1.52	20
(S)										
<i>o,o,o</i> -Trifluorotoluene(FID)				94.7	94.4	77.0-120				
(S)										
<i>o,o,o</i> -Trifluorotoluene(PID)				103	102	72.0-128				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3377469-3 01/17/19 10:15 • (LCSD) R3377469-4 01/17/19 10:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.38	5.32	97.9	96.7	72.0-127			1.22	20
(S)										
<i>o,o,o</i> -Trifluorotoluene(FID)				105	105	77.0-120				
(S)										
<i>o,o,o</i> -Trifluorotoluene(PID)				112	112	72.0-128				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

WG1225329

Semi-Volatile Organic Compounds (GC) by Method 8015

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

L1061171-01

Method Blank (MB)

(MB) R3376998-1 01/18/19 12:45

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	88.4			18.0-148

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3376998-2 01/18/19 13:01 • (LCSD) R3376998-3 01/18/19 13:16

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	50.0	42.6	42.6	85.2	85.2	50.0-150			0.000	20
(S) o-Terphenyl				101	104	18.0-148				

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc



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.

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
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.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

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-OS-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 ³	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	T 104704245-17-14
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

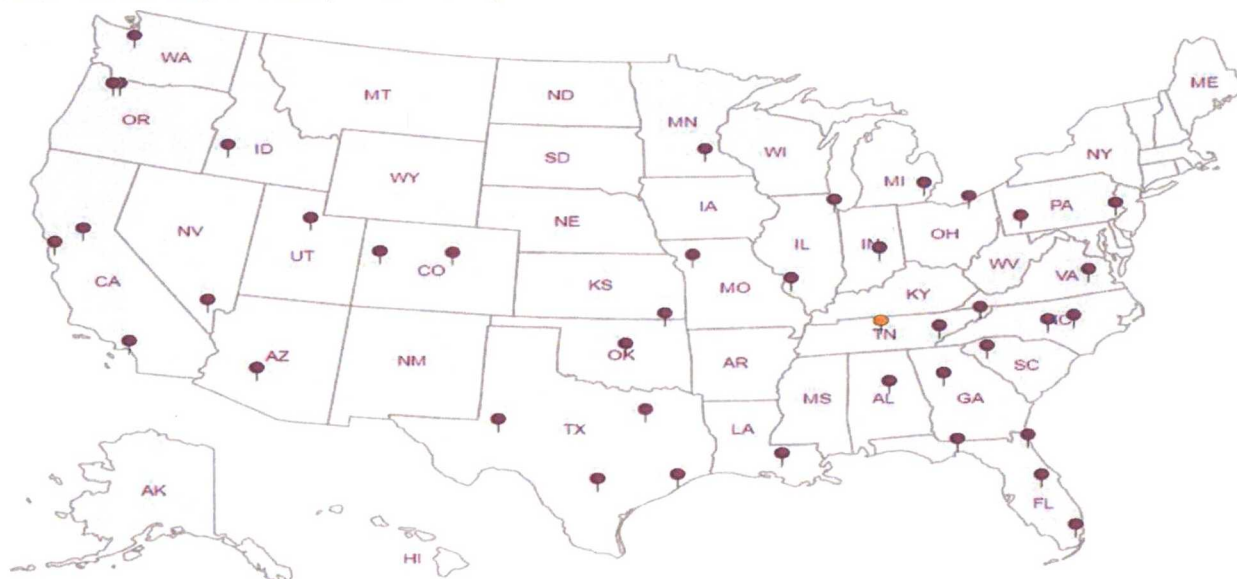
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A2LA - ISO 17025 ⁵	1461.02	DOD	1461.01
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Our Locations

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ACCOUNT:
Enduring Resources

PROJECT:

SDG:
L1061171

DATE/TIME:
01/22/19 12:47

PAGE:
11 of 12

Enduring Resources

332 County Road 3100-200 Energy Center
Aztec, NM 87410 Farmington, NM 87401

Billing Information:

James McDaniel
332 County Road 3100
Aztec, NM 87410

Pres
Chk

Analysis / Container / Preservative

Chain of Custody

Page 1 of 1



LAB SERVICES
a subsidiary of

12065 Lebanon Rd.
Mount Juliet, TN 37122
Phone: 615-758-3858
Phone: 800-767-5859
Fax: 615-758-5859



L#

11061171

1045

Acctnum: ENDRESANM

Template:

Prelogin:

TSR: 288 - Daphne Richards

PB:

Shipped Via:

Remarks

Sample # (lab only)

Report to:

James McDaniel

Email To:

JMcDaniel@EnduringResources.com

Project

Description: NEU 2207 16B

City/State
Collected:

Lab Project #

Phone: 505-636-9731

Fax:

Client Project #

P.O. #

Collected by (print):

Chad Small

Site/Facility ID #

Quote #

Collected by (signature):

[Signature]

Rush? (Lab MUST Be Notified)

Same Day Five Day
Next Day 5 Day (Rad Only)
Two Day 10 Day (Rad Only)
Three Day

Date Results Needed

No.
of
Cntrs

Immediately

Packed on Ice N Y X

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

Section 3

Comp. SS

01-14-19 9:30am

1

8021 (BTEX)

8015 (RAD/DRO/WRO)

Chlorides

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - Wastewater
DW - Drinking Water
OT - Other

Remarks:

RAD SCREEN: <0.5 mR/hr

pH Temp

Flow Other

Samples returned via:

UPS FedEx Courier

Tracking #

4196 3260 1606 1606

Received by: (Signature)

Trip Blank Received: Yes/No

HCL/MeOH

TBR

Received by: (Signature)

Temp: °C Bottles Received:

0.302 0.15 1.4oz

Received for lab by: (Signature)

Date: Time:

01/15/19 08:30

If preservation required by Login: Date/Time

Hold:

Condition:

NCF / OK

Relinquished by: (Signature)

Date:

Time:

1-14-19 12:00pm

Relinquished by: (Signature)

Date:

Time:

Relinquished by: (Signature)

Date:

Time: