

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	nAPP2135153330
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Catena Resources Operating, LLC	OGRID 328449
Contact Name Cato Clark	Contact Telephone 346-200-7894
Contact email clark@catenares.com	Incident # (assigned by OCD) nAPP2135153330
Contact mailing address 1001 Fannin St., Suite 2200, Houston, TX 77002	

Location of Release Source

Latitude 32.7064056 Longitude -103.4246445
(NAD 83 in decimal degrees to 5 decimal places)

Site Name South Vacuum Unit 354	Site Type Wellhead
Date Release Discovered 7/9/2019	API# (if applicable) 30-025-36789

Unit Letter	Section	Township	Range	County
G	35	18S	35E	Lea

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 checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 1	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 33	Volume Recovered (bbls) 0
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
Failure of equipment at the wellhead.

Form C-141

State of New Mexico
Oil Conservation Division


Page 2

Incident ID	nAPP2135153330
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Yes, the release was greater than 25 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" 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: <u>Cato Clark</u>	Title: <u>Vice President Land</u>
Signature: 	Date: <u>1/10/22</u>
email: <u>clark@catenares.com</u>	Telephone: <u>346-200-7894</u>
<u>OCD Only</u> Received by: _____ Date: _____	

Form C-141

State of New Mexico
Oil Conservation Division

Page 3

Incident ID	nAPP2135153330
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?	60 _____ (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	nAPP2135153330
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: Cato ClarkTitle: Vice President LandSignature: Date: 6-21-22email: clark@catenares.comTelephone: 346-200-7594**OCD Only**

Received by: _____

Date: _____

Form C-141

State of New Mexico
Oil Conservation Division

Page 5

Incident ID	nAPP2135153330
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: Cato ClarkTitle: Vice President LandSignature: Date: 6-21-22email: clark@catenares.comTelephone: 346-200-7894**OCD Only**

Received by: _____ Date: _____

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral ApprovedSignature: Date: 07/05/2022



701 Tradewinds Boulevard, Suite C
Midland, Texas 79706
Tel. 432.685.3898
www.ntglobal.com

March 15, 2022

Mike Bratcher
District Supervisor
Oil Conservation Division, District 2
811 S. First Street
Artesia, New Mexico 88210

Re: **Work Plan**
South Vacuum Unit #354
Catena Resources, LLC
Site Location: Unit G, S35, T18S, R35E
(Lat 32.706436°, Long -103.424600°)
Lea County, New Mexico
Incident # nAPP2135153330

Dear Mr. Bratcher:

On behalf of Catena Resources, LLC, New Tech Global Environmental, LLC (NTGE) has prepared this letter to document site assessment activities related to a release at the South Vacuum Unit 354 location (Site) on July 9, 2021. The Site is located in Lea County approximately 17.3 miles west of Hobbs, New Mexico (Figures 1 and 2).

Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the leak was discovered on July 9, 2021 and was a result of equipment failure at the wellhead. The equipment failure resulted in the release of approximately 1 barrel (bbl) of crude oil and 33 bbls of produced water of which 0 bbls were recovered. The release area is shown on Figure 3. A copy of the initial C-141 form is attached.

Site Characterization

The site is located within a low karst area. Based on a review of the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) databases, 5 known water sources are located within a ½ mile radius of the Site; however, none of the 5 wells were drilled in the past 25 years. The nearest identified well was drilled in 1957 and is located approximately 0.25 miles southwest of the Site. The well has a reported depth to groundwater of 60 feet below ground surface (ft bgs). A copy of the site characterization information and associated *Point of Diversion Summary* report for the nearest water well is attached.

Regulatory Criteria

In accordance with the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria are applicable at the Site.

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- TPH (GRO + DRO + MRO): 100 mg/kg
- Chloride: 600 mg/kg

**Creating a Better Environment
For Oil & Gas Operations**

Mr. Mike Bratcher
March 15, 2022
Page 2 of 3

Site Assessment

Site assessment activities were conducted over three events to fully characterize and delineate the extent of impacts resulting from the release. Soil samples were collected from the Site using various sample collection methodologies and submitted to an accredited laboratory for chemical analysis. Soil samples were field screened for volatile organic compounds (VOCs) and chloride.

All soil samples were analyzed for TPH (EPA method 8015 modified), BTEX (EPA Method 8021B), and chloride (EPA method 300.0). The combined analytical results from each sampling event are provided in Table 1, attached. Soil sample locations are shown on Figure 3. Laboratory reports containing analytical methods and chain-of-custody documents are attached. A photographic log documenting Site conditions at the time of the initial assessment is attached. Complete details of each sampling event are further described below.

Initial Assessment

On October 21, 2021, NTGE conducted site assessment activities to assess the horizontal and vertical extent of impacts at the Site. A total of 4 sample points (S-1 through S-4) were installed within the release area to characterize the impacts. Additionally, 4 horizontal delineation sample points (H-1 through H-4) were installed to define the extent of impacts. All soil samples were collected from the 0 – 0.5 ft bgs depth interval with a geotechnical handauger. The handauger was decontaminated with Alconox and deionized water between soil borings to prevent cross-contamination.

Analytical results from the initial assessment activities identified elevated TPH and/or chloride concentrations across the release area (S1 – S4). Additionally, TPH concentrations in soil sample H-1 - H-4 were also above the regulatory limits. The horizontal and vertical extent of impacts was not defined and further assessment was required.

Follow-On Sampling - Trenches

On December 8, 2021, NTGE conducted follow-on sampling activities to vertically delineate soil impacts in the areas of S-1 – S-4 and horizontally delineate soil impacts in the areas of H-1 - H-4. In the areas of S-1 – S4, trenches were installed to a depth of 2 ft bgs with a backhoe and soil samples were collected in 1 ft depth intervals. Samples were collected directly from the center of the backhoe bucket to prevent cross contamination. Backhoe refusal due to the presence of dense bedrock was encountered at the total depth of each trench.

The additional soil samples collected from the areas of H-1 - H-4 were collected with a geotechnical handauger. Soil samples were collected from the 0 – 0.5 ft bgs depth interval. The handauger was decontaminated with Alconox and deionized water between soil borings to prevent cross-contamination.

Analytical results from the trench sampling activities indicated that the vertical delineation of impacts was not achieved in and of the area except the area of S-4/T-4 where samples collected from the 1 ft depth interval were below the regulatory limits. The impacted extended to the total depths of the remaining trenches. Further assessment was required to assess the vertical extent of impacts in remaining areas.

Analytical results from the additional horizontal delineation sampling in the areas of H-1 - H-4 indicate the horizontal extent of impacts were defined. No further horizontal delineation sampling was required.

Mr. Mike Bratcher
March 15, 2022
Page 3 of 3

Follow-On Sampling – Soil Boring Installations

On February 8, 2022, NTGE conducted additional follow-on sampling activities to vertically delineate soil impacts in the release area. A total of 2 soil borings (BH-1 and BH-2) were installed using a geoprobe drilling unit with hollow-stem augers. The soil borings were advanced to depths ranging from 5 to 6 ft bgs and soil samples were collected in one foot depth intervals from each soil boring.

Analytical results from the soil boring installations indicated that vertical delineation was achieved in BH-1 and BH-2. Impacts at the Site are vertically delineated.

Proposed Work Plan

Based on the analytical results, Catena proposes the excavation and disposal of impacted soils above the regulatory limits. The proposed excavation depths may not be reached due to wall cave-ins and/or safety concerns for onsite personnel. Additionally, the excavation of impacted soil around oil and gas equipment, structures, and/or lines may not be feasible or practicable due to safety concerns for onsite personnel. As such, impacted soils will be excavated to the maximum extent practicable.

The proposed excavation areas and depths are detailed below and illustrated on Figure 4.

- The areas of S-1/T-1, S-2/T-2, S-3/T-3, BH-1, and BH-2 will be excavated to a depth of 2 ft bgs and backfilled with clean material to grade.
- The areas of S-4/T-4 will be excavated to a depth of 1 ft bgs and backfilled with clean material to grade.

Soil will be field screened during excavation and final excavation depths may vary depending on field screening activities. Composite confirmation excavation base and sidewalls samples will be collected every 200 square feet and analyzed for TPH by EPA method 8015 modified, BTEX by EPA Method 8021B, and Chloride by EPA method 300.0 to confirm excavation activities are successful in addressing identified impacts. Excavated soil will be hauled to a permitted disposal facility for final disposition.

Closing

The remediation will be implemented within 90 days of work plan approval. It is estimated that approximately 740 cubic yards (yd³) of soil will be excavated and hauled to disposal. Upon completion, a final report detailing the remedial actions will be submitted to the NMOCD. If you have any questions regarding this report or need any additional information, please contact us at 432.685.3868.

Sincerely,
NTG Environmental



Gordon Banks, REM, CSEM, CESCO
Project Manager

Attachments: Table
Figures
Photographic Log

Site Characterization Information
C-141
Laboratory Report and Chain-of-Custody Documents


Table

Table 1
Catena Resources, LLC
South Vacuum Unit 354
Lea County, New Mexico

Sample ID	Date	Sample Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
Vertical Delineation Samples												
S-1	10/20/2021	0-0.5'	<249	2,820	507	3,330	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,350
T-1	12/8/2021	0-1'	<20.0	1,580	968	2,548	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	1,320
		1'	<20.0	947	859	1,806	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	1,440
BH-1	2/8/2022	(0-1')	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	941
		(1'-2')	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	993
		(2'-3')	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	313
		(3'-4')	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	232
		(4'-5')	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	0.00396	<0.00396	50.7
		(5'-6')	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	0.00398	<0.00398	26.9
S-2	10/20/2021	0-0.5'	<249	1,650	347	2,000	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	2,700
T-2	12/8/2021	0-1'	<20.0	41.6	79.9	122	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	3,290
		1'	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	1,360
BH-2	2/8/2022	(0-1')	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	300
		(1'-2')	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	318
		(2'-3')	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	348
		(3'-4')	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	376
		(4'-5')	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	27.0
S-3	10/20/2021	0-0.5'	<50.0	112	<50.0	112	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	2,600
T-3	12/8/2021	0-1'	<20.0	92.0	130	222	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	470
		1'	<20.0	122	146	268	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	210
S-4	10/20/2021	0-0.5'	<49.8	64.1	<49.8	64.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	9,500
T-4	12/8/2021	0-1'	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	602
		1'	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	426
Horizontal Delineation Samples												
H-1	10/20/2021	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	734
H-1 (b)	12/8/2021	0-0.5'	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	483
H-2	10/20/2021	0-0.5'	<49.9	174	58.2	232	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	242
H-2 (b)	12/8/2021	0-0.5'	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	460

Table 1
Catena Resources, LLC
South Vacuum Unit 354
Lea County, New Mexico

Sample ID	Date	Sample Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
H-3	10/20/2021	0-0.5'	<49.9	174	61.5	236	<0.00201	<0.00201	0.00493	<0.00402	0.00493	188
H-3 (b)	12/8/2021	0-0.5'	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0
H-4	10/20/2021	0-0.5'	<49.8	148	<49.8	148	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	244
H-4 (b)	12/8/2021	0-0.5'	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	74.5
Regulatory Limits			-	-	-	100 mg/kg	10 mg/kg	-	-	-	50 mg/kg	600 mg/kg

 - exceeds regulatory limit

mg/kg - milligram per kilogram

GRO - gasoline range organics

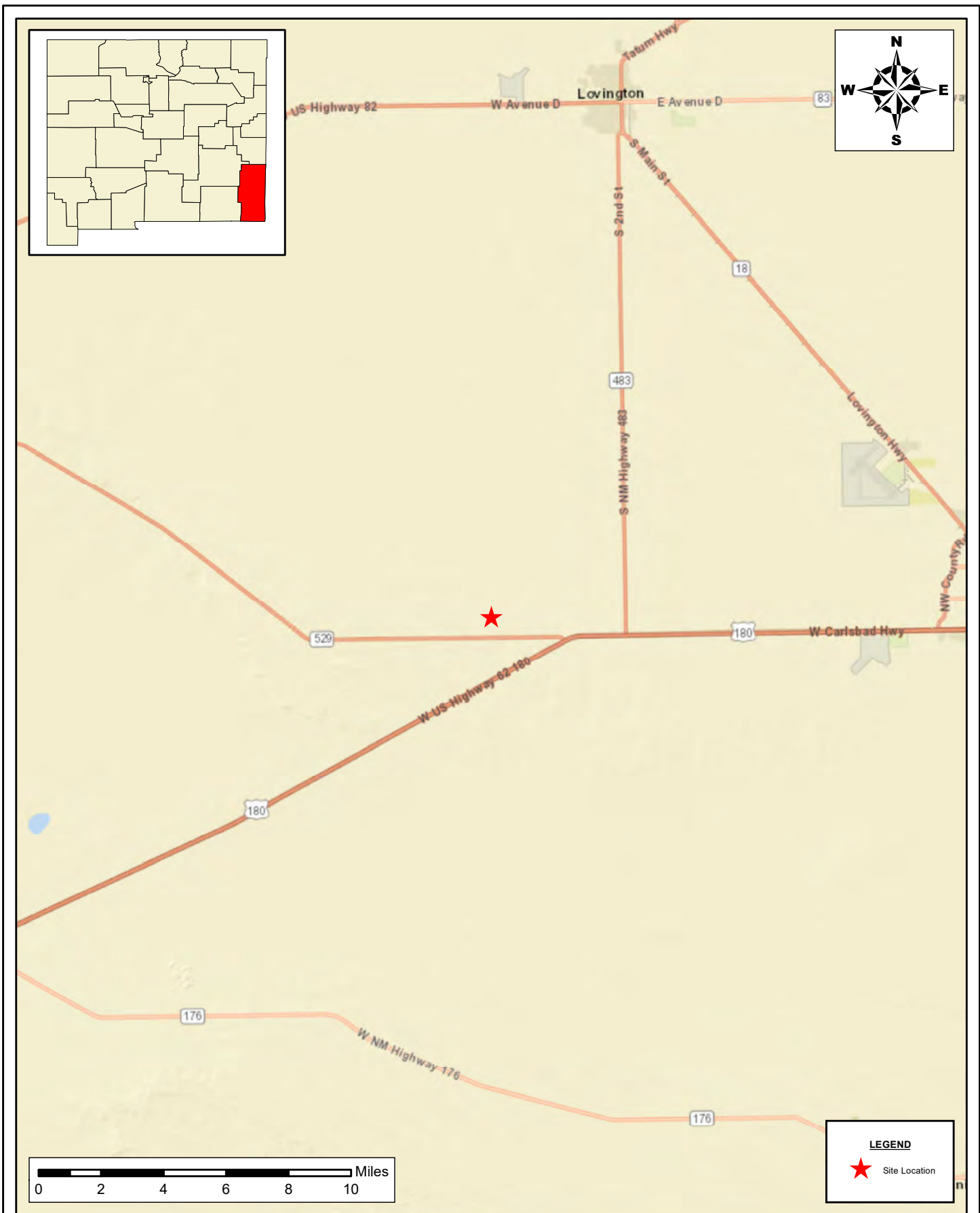
DRO - diesel range organics

ORO - oil range organics

A – Table 1 - 19.15.29 NMAC

Figures

Document Path: P:\2021 PROJECTS\CATENA\RSC\214802 South Vacuum 354\7 - Figures\WXDI\Figure_1_SLM\Map_03152022.mxd



SITE LOCATION MAP
CATENA RESOURCES, LLC
 SOUTH VACUUM UNIT #354
 LEA COUNTY, NEW MEXICO
 32.706436°, -104.424600°

SCALE: As Shown

Date: 3/15/2022

PROJECT #: 214802



New Tech Global Environmental, LLC
 911 Regional Park Drive
 Houston, Texas 77060
 T - 281.872.9300
 F - 281.872.4521
 Web: www.ntglobal.com

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

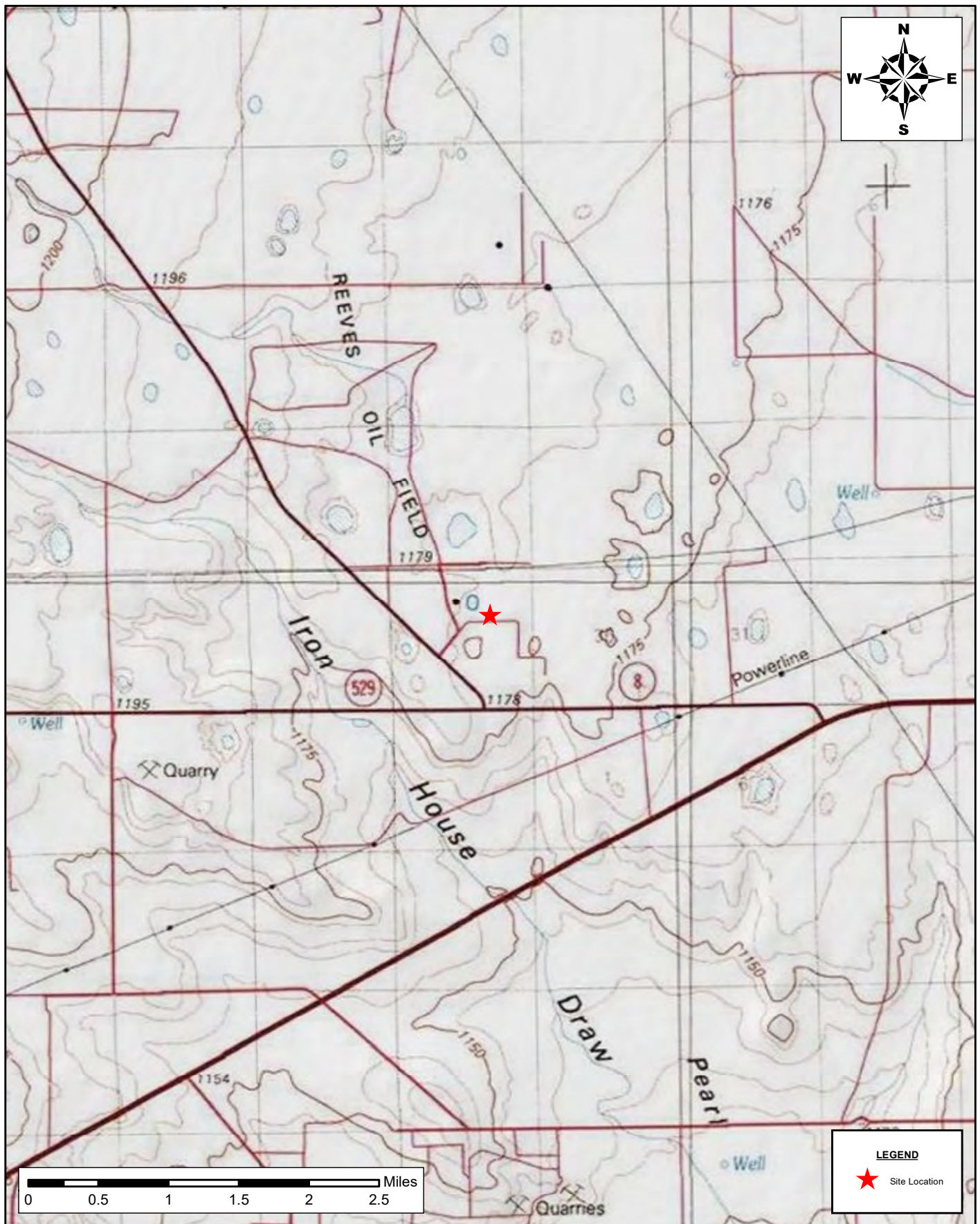
DRAWING NUMBER:

FIGURE 1

SHEET NUMBER:

1 of 1

Document Path: P:\2021 PROJECTS\CATENA\RSC\214802 South Vacuum 354\7 - Figures\WXD\Figure_2_AMap_03152022.mxd



AREA MAP
CATENA RESOURCES, LLC
 SOUTH VACUUM UNIT #354
 LEA COUNTY, NEW MEXICO
 32.706436°, -104.424600°

SCALE: As Shown Date: 3/15/2022 PROJECT #: 214802

New Tech Global Environmental, LLC
 911 Regional Park Drive
 Houston, Texas 77060
 T - 281.872.9300
 F - 281.872.4521
 Web: www.ntglobal.com



NOTES:

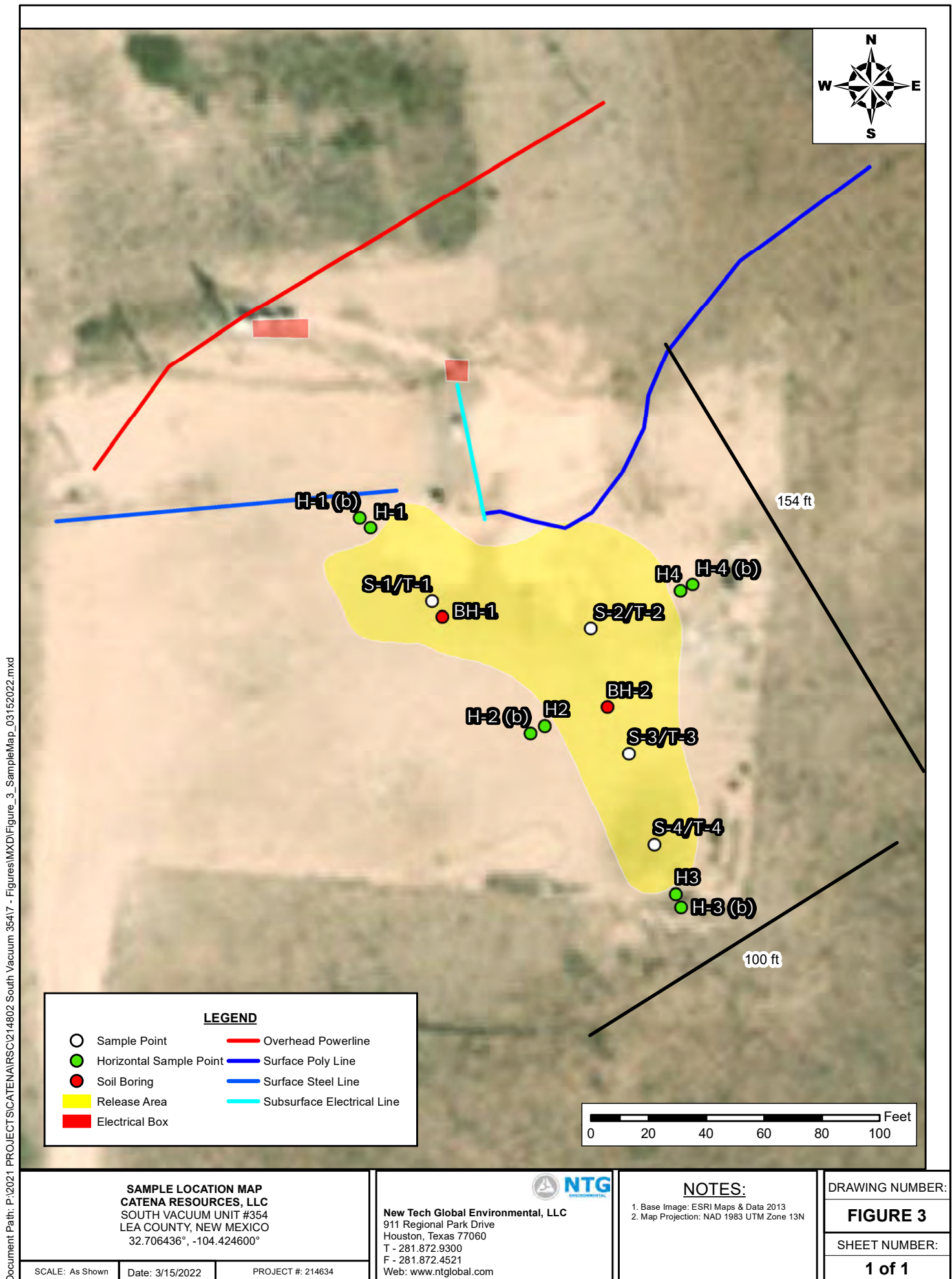
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:

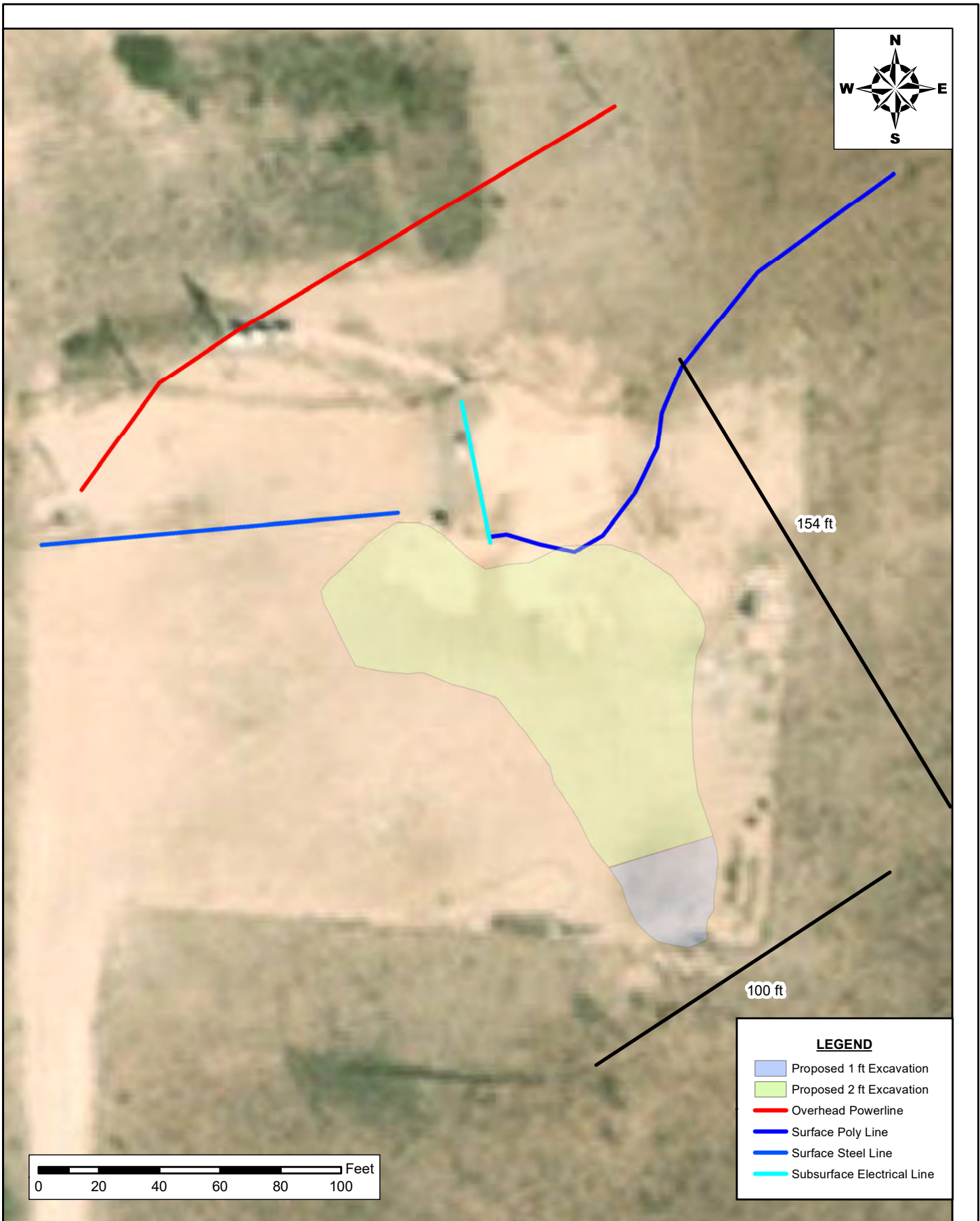
FIGURE 2

SHEET NUMBER:

1 of 1



Document Path: P:\2021 PROJECTS\CATENA\RSC\214802 South Vacuum 354\7 - Figures\WXD\Figure_4_ProposedExcavationMap_03152022.mxd



PROPOSED EXCAVATION MAP
CATENA RESOURCES, LLC
 SOUTH VACUUM UNIT #354
 LEA COUNTY, NEW MEXICO
 32.706436°, -104.424600°

SCALE: As Shown

Date: 3/25/2022

PROJECT #: 214634



New Tech Global Environmental, LLC
 911 Regional Park Drive
 Houston, Texas 77060
 T - 281.872.9300
 F - 281.872.4521
 Web: www.ntglobal.com

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:

FIGURE 4

SHEET NUMBER:

1 of 1

Photographic Log

PHOTOGRAPHIC LOG

Catena Resources

Photograph No. 1

Facility: South Vacuum 354

County: Lea County, New Mexico

Description:

View looking east of sample points H-1, H-4, S-1, and S-2.



Photograph No. 2

Facility: South Vacuum 354

County: Lea County, New Mexico

Description:

View looking east of sample points H-3, S-2, S-3, and S-4.



Photograph No. 3

Facility: South Vacuum 354

County: Lea County, New Mexico

Description:

View looking west of sample points H-4, S-1, S-2, and H-1.



PHOTOGRAPHIC LOG

Catena Resources

Photograph No. 4

Facility: South Vacuum 354

County: Lea County, New Mexico

Description:

View looking southwest of sample points H-3, H-4, S-2, S-3, and S-4.



Photograph No. 5

Facility: South Vacuum 354

County: Lea County, New Mexico

Description:

View looking northwest of sample points H-3, H-2, S-2, S-3, and S-4.



Photograph No. 6

Facility: South Vacuum 354

County: Lea County, New Mexico

Description:

View looking northeast of the point of release (POR) and wellhead.



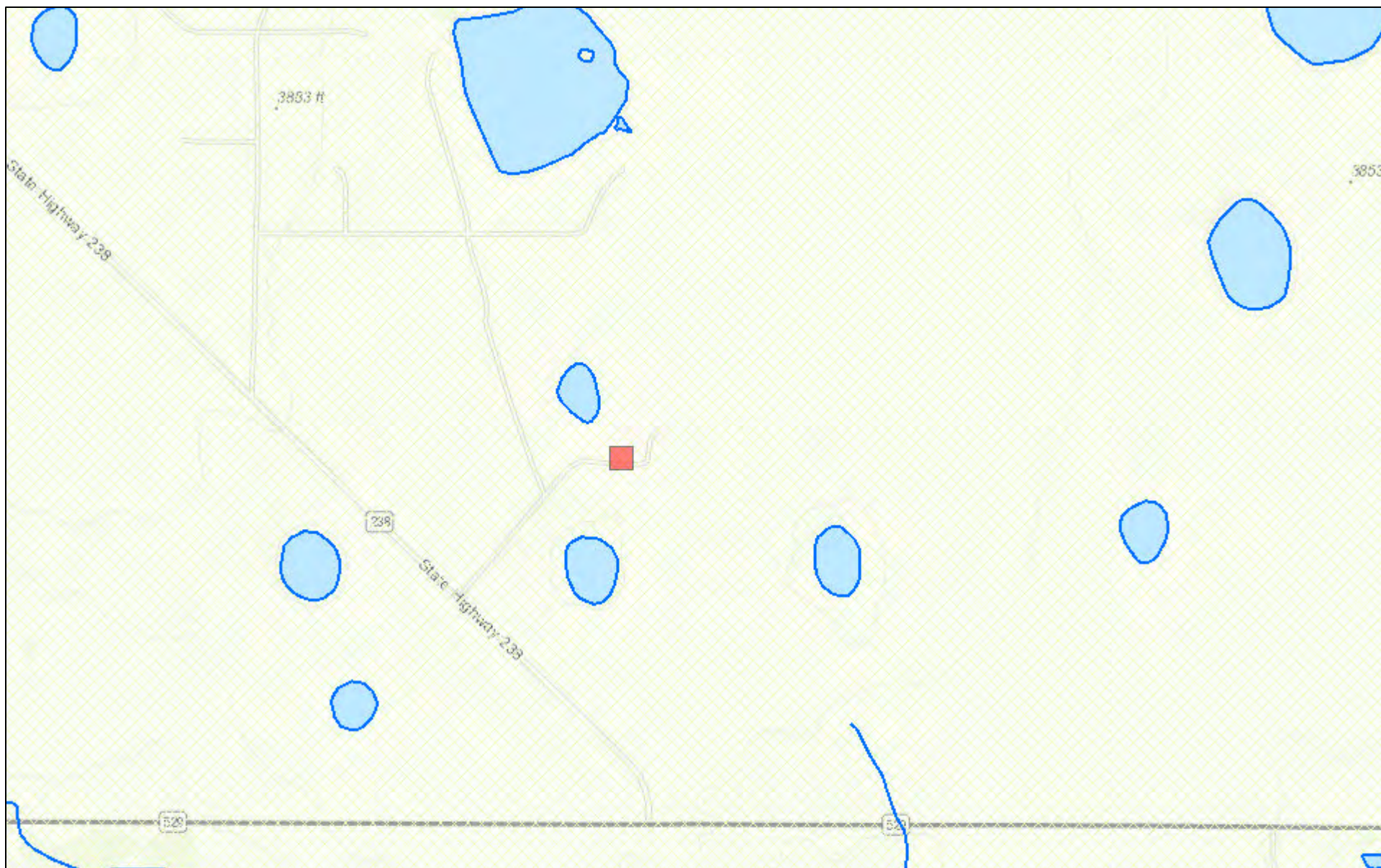
Site Characterization Information

Released to Imaging: 7

- LOW
South Vacuum #354

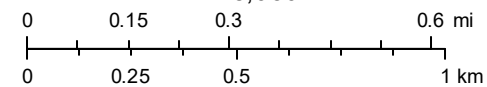
©South Vacuum #354

New Mexico NFHL Data



October 26, 2021

1:18,056



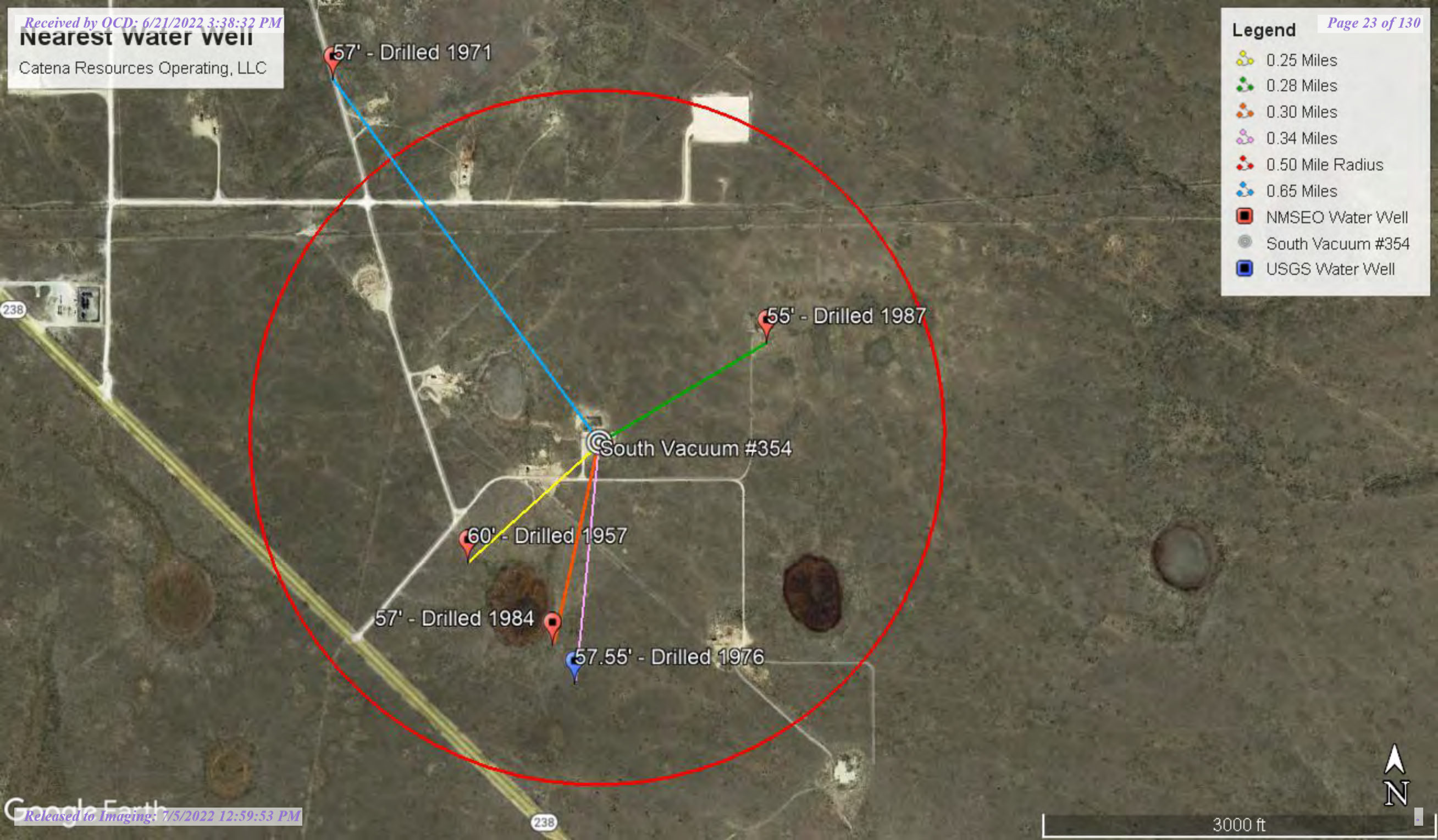
FEMA
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,

Nearest water well

Catena Resources Operating, LLC

Legend

- 0.25 Miles
- 0.28 Miles
- 0.30 Miles
- 0.34 Miles
- 0.50 Mile Radius
- 0.65 Miles
- NMSEO Water Well
- South Vacuum #354
- USGS Water Well





New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)		(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L	09958	4	2	2	35	18S	35E	648040	3620074*

Driller License: 421	Driller Company: GLENN'S WATER WELL SERVICE	
Driller Name: GLENN, CLARK A.		
Drill Start Date: 10/12/1987	Drill Finish Date: 10/12/1987	Plug Date:
Log File Date: 10/22/1987	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 100 GPM
Casing Size: 6.62	Depth Well: 150 feet	Depth Water: 55 feet

Water Bearing Stratifications:	Top	Bottom	Description
	56	160	Other/Unknown

Casing Perforations:	Top	Bottom
	122	153

Meter Number: 8553	Meter Make: MASTER
Meter Serial Number: 2057376	Meter Multiplier: 100.0000
Number of Dials: 6	Meter Type: Diversion
Unit of Measure: Gallons	Return Flow Percent:
Usage Multiplier:	Reading Frequency: Monthly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
03/17/2004	2004	47084	A	jw		0
04/26/2004	2004	49141	A	jw		0.631

**YTD Meter Amounts:	Year	Amount
	2004	0.631

*UTM location was derived from PLSS - see Help


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

10/26/21 2:57 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	L 06868	1	4	3	26	18S	35E	647026	3620666* 
Driller License: 46		Driller Company:		ABBOTT BROTHERS COMPANY					
Driller Name:									
Drill Start Date: 10/30/1971		Drill Finish Date:		11/01/1971		Plug Date:		08/21/1972	
Log File Date: 11/03/1971		PCW Rcv Date:				Source:		Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size: 6.63		Depth Well:		110 feet		Depth Water:		57 feet	
Water Bearing Stratifications:				Top	Bottom	Description			
				57	110	Sandstone/Gravel/Conglomerate			
Casing Perforations:				Top	Bottom				
				68	110				

*UTM location was derived from PLSS - see Help

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

10/26/21 1:17 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)	(NAD83 UTM in meters)		
Well Tag	POD Number	Q64 Q16 Q4 Sec Tws Rng	X	Y	
L 09524		1 4 35 18S 35E	647552	3619364*	

Driller License: 882	Driller Company: LARRY'S DRILLING & PUMP CO.
Driller Name: FELKINS, LARRY	

Drill Start Date: 07/13/1984	Drill Finish Date: 07/13/1984	Plug Date: 08/08/1985
Log File Date: 07/23/1984	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 100 GPM
Casing Size: 6.63	Depth Well: 140 feet	Depth Water: 57 feet

Water Bearing Stratifications:	Top	Bottom	Description
	60	140	Other/Unknown

Casing Perforations:	Top	Bottom
	120	140

*UTM location was derived from PLSS - see Help

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

10/26/21 2:55 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)	(NAD83 UTM in meters)		
		Q64 Q16 Q4 Sec Tws Rng	X Y		
	L 03678	35 18S 35E	647354 3619554*		

Driller License: 99	Driller Company: O.R. MUSSELWHITE WATER WELL SE
Driller Name: MUSSELWHITE, O.R.	

Drill Start Date: 09/17/1957	Drill Finish Date: 09/18/1957	Plug Date: 09/30/1962
Log File Date: 09/24/1957	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 6.00	Depth Well: 115 feet	Depth Water: 60 feet

Water Bearing Stratifications:	Top	Bottom	Description
	70	110	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom	
	75	115	

*UTM location was derived from PLSS - see Help

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

10/26/21 2:52 PM

POINT OF DIVERSION SUMMARY



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

New Mexico

GO

Click to hide News Bulletins

- Explore the [NEW USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#)

Groundwater levels for New Mexico

Click to hide state-specific text

Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 324205103253101

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 324205103253101 18S.35E.35.23143

Lea County, New Mexico

Latitude 32°42'05", Longitude 103°25'31" NAD27

Land-surface elevation 3,865 feet above NAVD88

The depth of the well is 115 feet below land surface.

This well is completed in the High Plains aquifer (N100HGHLN) national aquifer.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1961-03-23		D	62610		3805.98	NGVD29	1	Z			A
1961-03-23		D	62611		3807.55	NAVD88	1	Z			A
1961-03-23		D	72019	57.45			1	Z			A
1966-03-18		D	62610		3805.64	NGVD29	1	Z			A
1966-03-18		D	62611		3807.21	NAVD88	1	Z			A
1966-03-18		D	72019	57.79			1	Z			A
1971-01-20		D	62610		3807.11	NGVD29	1	Z			A
1971-01-20		D	62611		3808.68	NAVD88	1	Z			A
1971-01-20		D	72019	56.32			1	Z			A
1976-02-10		D	62610		3805.88	NGVD29	1	Z			A
1976-02-10		D	62611		3807.45	NAVD88	1	Z			A
1976-02-10		D	72019	57.55			1	Z			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.

Section	Code	Description
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

[Questions about sites/data?](#)
[Feedback on this web site](#)
[Automated retrievals](#)
[Help](#)
[Data Tips](#)
[Explanation of terms](#)
[Subscribe for system changes](#)
[News](#)

C-141

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	nAPP2135153330
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Catena Resources Operating, LLC	OGRID 328449
Contact Name Cato Clark	Contact Telephone 346-200-7894
Contact email clark@catenares.com	Incident # (assigned by OCD) nAPP2135153330
Contact mailing address 1001 Fannin St., Suite 2200, Houston, TX 77002	

Location of Release Source

Latitude 32.7064056 Longitude -103.4246445
(NAD 83 in decimal degrees to 5 decimal places)

Site Name South Vacuum Unit 354	Site Type Wellhead
Date Release Discovered 7/9/2019	API# (if applicable) 30-025-36789

Unit Letter	Section	Township	Range	County
G	35	18S	35E	Lea

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 checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 1	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 33	Volume Recovered (bbls) 0
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Failure of equipment at the wellhead.

Form C-141

State of New Mexico
Oil Conservation Division


Page 2

Incident ID	nAPP2135153330
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Yes, the release was greater than 25 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" 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: <u>Cato Clark</u>	Title: <u>Vice President Land</u>
Signature: <u></u>	Date: <u>1/10/22</u>
email: <u>clark@catenares.com</u>	Telephone: <u>346-200-7894</u>
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>1/31/2022</u>

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 74891

CONDITIONS

Operator: Catena Resources Operating, LLC 1001 Fannin Street Houston, TX 77002	OGRID: 328449
	Action Number: 74891
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141	1/31/2022

Laboratory Reports and Chain-of-Custody Documents



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-7522-1

Laboratory Sample Delivery Group: Lea Co, NM
Client Project/Site: South Vaccum Unit 354

For:

NT Global
701 Tradewinds Blvd
Midland, Texas 79706

Attn: Mike Carmona

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
11/1/2021 2:22:21 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: NT Global
Project/Site: South Vaccum Unit 354

Laboratory Job ID: 880-7522-1
SDG: Lea Co, NM

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	16
Lab Chronicle	19
Certification Summary	22
Method Summary	23
Sample Summary	24
Chain of Custody	25
Receipt Checklists	26

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Definitions/Glossary

Client: NT Global
Project/Site: South Vacuum Unit 354

Job ID: 880-7522-1
SDG: Lea Co, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: NT Global
Project/Site: South Vaccum Unit 354

Job ID: 880-7522-1
SDG: Lea Co, NM

Job ID: 880-7522-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-7522-1

Receipt

The samples were received on 10/25/2021 11:04 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-10743 and analytical batch 880-10944 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: NT Global
Project/Site: South Vaccum Unit 354

Job ID: 880-7522-1
SDG: Lea Co, NM

Client Sample ID: S-1 (0-6")

Lab Sample ID: 880-7522-1

Date Collected: 10/20/21 00:00

Matrix: Solid

Date Received: 10/25/21 11:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/27/21 09:00	10/27/21 18:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/27/21 09:00	10/27/21 18:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/27/21 09:00	10/27/21 18:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/27/21 09:00	10/27/21 18:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/27/21 09:00	10/27/21 18:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/27/21 09:00	10/27/21 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	10/27/21 09:00	10/27/21 18:34	1
1,4-Difluorobenzene (Surr)	99		70 - 130	10/27/21 09:00	10/27/21 18:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3330		249		mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<249	U	249		mg/Kg		10/28/21 16:32	10/30/21 02:01	5
Diesel Range Organics (Over C10-C28)	2820		249		mg/Kg		10/28/21 16:32	10/30/21 02:01	5
Oil Range Organics (Over C28-C36)	507		249		mg/Kg		10/28/21 16:32	10/30/21 02:01	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	10/28/21 16:32	10/30/21 02:01	5
o-Terphenyl	89		70 - 130	10/28/21 16:32	10/30/21 02:01	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1350		4.98		mg/Kg			10/29/21 13:28	1

Client Sample ID: S-2 (0-6")

Lab Sample ID: 880-7522-2

Date Collected: 10/20/21 00:00

Matrix: Solid

Date Received: 10/25/21 11:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/27/21 09:00	10/27/21 18:55	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/27/21 09:00	10/27/21 18:55	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/27/21 09:00	10/27/21 18:55	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/27/21 09:00	10/27/21 18:55	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/27/21 09:00	10/27/21 18:55	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/27/21 09:00	10/27/21 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	10/27/21 09:00	10/27/21 18:55	1
1,4-Difluorobenzene (Surr)	78		70 - 130	10/27/21 09:00	10/27/21 18:55	1

Eurofins Xenco, Midland

Client Sample Results

Client: NT Global
Project/Site: South Vacuum Unit 354

Job ID: 880-7522-1
SDG: Lea Co, NM

Client Sample ID: S-2 (0-6")

Lab Sample ID: 880-7522-2

Date Collected: 10/20/21 00:00

Matrix: Solid

Date Received: 10/25/21 11:04

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2000		249		mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<249	U	249		mg/Kg		10/28/21 16:32	10/30/21 02:21	5
Diesel Range Organics (Over C10-C28)	1650		249		mg/Kg		10/28/21 16:32	10/30/21 02:21	5
Oil Range Organics (Over C28-C36)	347		249		mg/Kg		10/28/21 16:32	10/30/21 02:21	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				10/28/21 16:32	10/30/21 02:21	5
o-Terphenyl	109		70 - 130				10/28/21 16:32	10/30/21 02:21	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2700		25.0		mg/Kg			10/29/21 13:35	5

Client Sample ID: S-3 (0-6")

Lab Sample ID: 880-7522-3

Date Collected: 10/20/21 00:00

Matrix: Solid

Date Received: 10/25/21 11:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/27/21 09:00	10/27/21 19:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/27/21 09:00	10/27/21 19:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/27/21 09:00	10/27/21 19:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/27/21 09:00	10/27/21 19:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/27/21 09:00	10/27/21 19:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/27/21 09:00	10/27/21 19:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				10/27/21 09:00	10/27/21 19:15	1
1,4-Difluorobenzene (Surr)	113		70 - 130				10/27/21 09:00	10/27/21 19:15	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	112		50.0		mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/28/21 16:32	10/30/21 02:41	1

Eurofins Xenco, Midland

Client Sample Results

Client: NT Global
Project/Site: South Vacuum Unit 354

Job ID: 880-7522-1
SDG: Lea Co, NM

Client Sample ID: S-3 (0-6")

Lab Sample ID: 880-7522-3

Date Collected: 10/20/21 00:00

Matrix: Solid

Date Received: 10/25/21 11:04

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	112		50.0		mg/Kg		10/28/21 16:32	10/30/21 02:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/28/21 16:32	10/30/21 02:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				10/28/21 16:32	10/30/21 02:41	1
o-Terphenyl	111		70 - 130				10/28/21 16:32	10/30/21 02:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2600		25.0		mg/Kg			10/29/21 13:43	5

Client Sample ID: S-4 (0-6")

Lab Sample ID: 880-7522-4

Date Collected: 10/20/21 00:00

Matrix: Solid

Date Received: 10/25/21 11:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/27/21 09:00	10/27/21 19:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/27/21 09:00	10/27/21 19:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/27/21 09:00	10/27/21 19:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/27/21 09:00	10/27/21 19:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/27/21 09:00	10/27/21 19:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/27/21 09:00	10/27/21 19:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				10/27/21 09:00	10/27/21 19:35	1
1,4-Difluorobenzene (Surr)	104		70 - 130				10/27/21 09:00	10/27/21 19:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	64.1		49.8		mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/28/21 16:32	10/30/21 03:02	1
Diesel Range Organics (Over C10-C28)	64.1		49.8		mg/Kg		10/28/21 16:32	10/30/21 03:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/28/21 16:32	10/30/21 03:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				10/28/21 16:32	10/30/21 03:02	1
o-Terphenyl	105		70 - 130				10/28/21 16:32	10/30/21 03:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9500		50.5		mg/Kg			10/29/21 13:50	10

Eurofins Xenco, Midland

Client Sample Results

Client: NT Global
Project/Site: South Vacuum Unit 354

Job ID: 880-7522-1
SDG: Lea Co, NM

Client Sample ID: H-1 (0-6")

Lab Sample ID: 880-7522-5

Date Collected: 10/20/21 00:00

Matrix: Solid

Date Received: 10/25/21 11:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/27/21 09:00	10/27/21 19:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/27/21 09:00	10/27/21 19:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/27/21 09:00	10/27/21 19:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/27/21 09:00	10/27/21 19:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/27/21 09:00	10/27/21 19:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/27/21 09:00	10/27/21 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	10/27/21 09:00	10/27/21 19:56	1
1,4-Difluorobenzene (Surr)	80		70 - 130	10/27/21 09:00	10/27/21 19:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/28/21 16:32	10/30/21 03:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/28/21 16:32	10/30/21 03:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/28/21 16:32	10/30/21 03:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	10/28/21 16:32	10/30/21 03:21	1
o-Terphenyl	103		70 - 130	10/28/21 16:32	10/30/21 03:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	734	F1	4.99		mg/Kg			10/29/21 13:57	1

Client Sample ID: H-2 (0-6")

Lab Sample ID: 880-7522-6

Date Collected: 10/20/21 00:00

Matrix: Solid

Date Received: 10/25/21 11:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/27/21 09:00	10/27/21 20:16	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/27/21 09:00	10/27/21 20:16	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/27/21 09:00	10/27/21 20:16	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/27/21 09:00	10/27/21 20:16	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/27/21 09:00	10/27/21 20:16	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/27/21 09:00	10/27/21 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	10/27/21 09:00	10/27/21 20:16	1
1,4-Difluorobenzene (Surr)	74		70 - 130	10/27/21 09:00	10/27/21 20:16	1

Eurofins Xenco, Midland

Client Sample Results

Client: NT Global
Project/Site: South Vacuum Unit 354

Job ID: 880-7522-1
SDG: Lea Co, NM

Client Sample ID: H-2 (0-6")

Lab Sample ID: 880-7522-6

Date Collected: 10/20/21 00:00

Matrix: Solid

Date Received: 10/25/21 11:04

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	232		49.9		mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/28/21 16:32	10/30/21 03:42	1
Diesel Range Organics (Over C10-C28)	174		49.9		mg/Kg		10/28/21 16:32	10/30/21 03:42	1
Oil Range Organics (Over C28-C36)	58.2		49.9		mg/Kg		10/28/21 16:32	10/30/21 03:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				10/28/21 16:32	10/30/21 03:42	1
o-Terphenyl	105		70 - 130				10/28/21 16:32	10/30/21 03:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	242		5.04		mg/Kg			10/29/21 14:18	1

Client Sample ID: H-3 (0-6")

Lab Sample ID: 880-7522-7

Date Collected: 10/20/21 00:00

Matrix: Solid

Date Received: 10/25/21 11:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/27/21 09:00	10/27/21 20:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/27/21 09:00	10/27/21 20:36	1
Ethylbenzene	0.00493		0.00201		mg/Kg		10/27/21 09:00	10/27/21 20:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/27/21 09:00	10/27/21 20:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/27/21 09:00	10/27/21 20:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/27/21 09:00	10/27/21 20:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				10/27/21 09:00	10/27/21 20:36	1
1,4-Difluorobenzene (Surr)	100		70 - 130				10/27/21 09:00	10/27/21 20:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00493		0.00402		mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	236		49.9		mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/28/21 16:32	10/30/21 04:02	1

Eurofins Xenco, Midland

Client Sample Results

Client: NT Global
Project/Site: South Vacuum Unit 354

Job ID: 880-7522-1
SDG: Lea Co, NM

Client Sample ID: H-3 (0-6")

Lab Sample ID: 880-7522-7

Date Collected: 10/20/21 00:00

Matrix: Solid

Date Received: 10/25/21 11:04

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	174		49.9		mg/Kg		10/28/21 16:32	10/30/21 04:02	1
Oil Range Organics (Over C28-C36)	61.5		49.9		mg/Kg		10/28/21 16:32	10/30/21 04:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				10/28/21 16:32	10/30/21 04:02	1
o-Terphenyl	103		70 - 130				10/28/21 16:32	10/30/21 04:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	188		4.97		mg/Kg			10/29/21 14:26	1

Client Sample ID: H-4 (0-6")

Lab Sample ID: 880-7522-8

Date Collected: 10/20/21 00:00

Matrix: Solid

Date Received: 10/25/21 11:04

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/27/21 09:00	10/27/21 20:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/27/21 09:00	10/27/21 20:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/27/21 09:00	10/27/21 20:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/27/21 09:00	10/27/21 20:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/27/21 09:00	10/27/21 20:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/27/21 09:00	10/27/21 20:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				10/27/21 09:00	10/27/21 20:57	1
1,4-Difluorobenzene (Surr)	95		70 - 130				10/27/21 09:00	10/27/21 20:57	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/01/21 13:41	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	148		49.8		mg/Kg			10/29/21 13:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/28/21 16:32	10/30/21 04:22	1
Diesel Range Organics (Over C10-C28)	148		49.8		mg/Kg		10/28/21 16:32	10/30/21 04:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/28/21 16:32	10/30/21 04:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				10/28/21 16:32	10/30/21 04:22	1
o-Terphenyl	104		70 - 130				10/28/21 16:32	10/30/21 04:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	244		4.95		mg/Kg			10/29/21 14:47	1

Eurofins Xenco, Midland

Surrogate Summary

Client: NT Global
Project/Site: South Vacuum Unit 354

Job ID: 880-7522-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-7519-A-1-B MS	Matrix Spike	102	104
880-7519-A-1-C MSD	Matrix Spike Duplicate	122	101
880-7522-1	S-1 (0-6")	103	99
880-7522-2	S-2 (0-6")	72	78
880-7522-3	S-3 (0-6")	108	113
880-7522-4	S-4 (0-6")	98	104
880-7522-5	H-1 (0-6")	96	80
880-7522-6	H-2 (0-6")	86	74
880-7522-7	H-3 (0-6")	101	100
880-7522-8	H-4 (0-6")	101	95
LCS 880-10436/1-A	Lab Control Sample	93	100
LCSD 880-10436/2-A	Lab Control Sample Dup	95	99
MB 880-10436/5-A	Method Blank	100	110
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-7440-A-2-E MS	Matrix Spike	101	95
880-7440-A-2-F MSD	Matrix Spike Duplicate	103	100
880-7522-1	S-1 (0-6")	91	89
880-7522-2	S-2 (0-6")	112	109
880-7522-3	S-3 (0-6")	118	111
880-7522-4	S-4 (0-6")	109	105
880-7522-5	H-1 (0-6")	101	103
880-7522-6	H-2 (0-6")	108	105
880-7522-7	H-3 (0-6")	104	103
880-7522-8	H-4 (0-6")	111	104
LCS 880-10871/2-A	Lab Control Sample	102	96
LCSD 880-10871/3-A	Lab Control Sample Dup	99	92
MB 880-10871/1-A	Method Blank	115	123
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Xenco, Midland

QC Sample Results

Client: NT Global
Project/Site: South Vacuum Unit 354

Job ID: 880-7522-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-10436/5-A

Matrix: Solid

Analysis Batch: 10677

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10436

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/27/21 09:00	10/27/21 12:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/27/21 09:00	10/27/21 12:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/27/21 09:00	10/27/21 12:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/27/21 09:00	10/27/21 12:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/27/21 09:00	10/27/21 12:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/27/21 09:00	10/27/21 12:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	10/27/21 09:00	10/27/21 12:32	1
1,4-Difluorobenzene (Surr)	110		70 - 130	10/27/21 09:00	10/27/21 12:32	1

Lab Sample ID: LCS 880-10436/1-A

Matrix: Solid

Analysis Batch: 10677

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10436

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1073		mg/Kg		107	70 - 130
Toluene	0.100	0.1166		mg/Kg		117	70 - 130
Ethylbenzene	0.100	0.1176		mg/Kg		118	70 - 130
m-Xylene & p-Xylene	0.200	0.2333		mg/Kg		117	70 - 130
o-Xylene	0.100	0.1270		mg/Kg		127	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-10436/2-A

Matrix: Solid

Analysis Batch: 10677

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10436

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1055		mg/Kg		105	70 - 130	2	35
Toluene	0.100	0.1152		mg/Kg		115	70 - 130	1	35
Ethylbenzene	0.100	0.1203		mg/Kg		120	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2353		mg/Kg		118	70 - 130	1	35
o-Xylene	0.100	0.1239		mg/Kg		124	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-7519-A-1-B MS

Matrix: Solid

Analysis Batch: 10677

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 10436

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U F2 F1	0.101	0.003788	F1	mg/Kg		4	70 - 130
Toluene	<0.00202	U F1	0.101	0.01188	F1	mg/Kg		11	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: NT Global
Project/Site: South Vacuum Unit 354

Job ID: 880-7522-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-7519-A-1-B MS

Matrix: Solid

Analysis Batch: 10677

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 10436

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00202	U F1	0.101	0.01362	F1	mg/Kg		14	70 - 130
m-Xylene & p-Xylene	<0.00404	U F2 F1	0.201	0.004926	F1	mg/Kg		2	70 - 130
o-Xylene	<0.00202	U F2 F1	0.101	<0.00201	U F1	mg/Kg		2	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-7519-A-1-C MSD

Matrix: Solid

Analysis Batch: 10677

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 10436

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U F2 F1	0.100	0.007038	F2 F1	mg/Kg		7	70 - 130	60	35
Toluene	<0.00202	U F1	0.100	0.01136	F1	mg/Kg		11	70 - 130	4	35
Ethylbenzene	<0.00202	U F1	0.100	0.01667	F1	mg/Kg		17	70 - 130	20	35
m-Xylene & p-Xylene	<0.00404	U F2 F1	0.200	0.02817	F2 F1	mg/Kg		14	70 - 130	140	35
o-Xylene	<0.00202	U F2 F1	0.100	0.02794	F2 F1	mg/Kg		28	70 - 130	178	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-10871/1-A

Matrix: Solid

Analysis Batch: 10887

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/28/21 16:32	10/29/21 19:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/28/21 16:32	10/29/21 19:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/28/21 16:32	10/29/21 19:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	10/28/21 16:32	10/29/21 19:59	1
o-Terphenyl	123		70 - 130	10/28/21 16:32	10/29/21 19:59	1

Lab Sample ID: LCS 880-10871/2-A

Matrix: Solid

Analysis Batch: 10887

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1166		mg/Kg		117	70 - 130
Diesel Range Organics (Over C10-C28)	1000	878.0		mg/Kg		88	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: NT Global
Project/Site: South Vacuum Unit 354

Job ID: 880-7522-1
SDG: Lea Co, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-10871/2-A

Matrix: Solid

Analysis Batch: 10887

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10871

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: LCSD 880-10871/3-A

Matrix: Solid

Analysis Batch: 10887

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10871

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1072		mg/Kg		107	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	835.4		mg/Kg		84	70 - 130	5	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 880-7440-A-2-E MS

Matrix: Solid

Analysis Batch: 10887

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 10871

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1240		mg/Kg		124	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	955.8		mg/Kg		94	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: 880-7440-A-2-F MSD

Matrix: Solid

Analysis Batch: 10887

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 10871

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1271		mg/Kg		127	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1022		mg/Kg		100	70 - 130	7	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	100		70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: NT Global
Project/Site: South Vacuum Unit 354

Job ID: 880-7522-1
SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-10743/1-A

Matrix: Solid

Analysis Batch: 10944

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/29/21 11:47	1

Lab Sample ID: LCS 880-10743/2-A

Matrix: Solid

Analysis Batch: 10944

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	251.0		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-10743/3-A

Matrix: Solid

Analysis Batch: 10944

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	251.5		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-7522-5 MS

Matrix: Solid

Analysis Batch: 10944

Client Sample ID: H-1 (0-6")

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	734	F1	250	918.0	F1	mg/Kg		74	90 - 110

Lab Sample ID: 880-7522-5 MSD

Matrix: Solid

Analysis Batch: 10944

Client Sample ID: H-1 (0-6")

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	734	F1	250	908.0	F1	mg/Kg		70	90 - 110	1	20

Eurofins Xenco, Midland

QC Association Summary

Client: NT Global
Project/Site: South Vaccum Unit 354

Job ID: 880-7522-1
SDG: Lea Co, NM

GC VOA

Prep Batch: 10436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7522-1	S-1 (0-6")	Total/NA	Solid	5035	
880-7522-2	S-2 (0-6")	Total/NA	Solid	5035	
880-7522-3	S-3 (0-6")	Total/NA	Solid	5035	
880-7522-4	S-4 (0-6")	Total/NA	Solid	5035	
880-7522-5	H-1 (0-6")	Total/NA	Solid	5035	
880-7522-6	H-2 (0-6")	Total/NA	Solid	5035	
880-7522-7	H-3 (0-6")	Total/NA	Solid	5035	
880-7522-8	H-4 (0-6")	Total/NA	Solid	5035	
MB 880-10436/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-10436/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-10436/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-7519-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-7519-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 10677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7522-1	S-1 (0-6")	Total/NA	Solid	8021B	10436
880-7522-2	S-2 (0-6")	Total/NA	Solid	8021B	10436
880-7522-3	S-3 (0-6")	Total/NA	Solid	8021B	10436
880-7522-4	S-4 (0-6")	Total/NA	Solid	8021B	10436
880-7522-5	H-1 (0-6")	Total/NA	Solid	8021B	10436
880-7522-6	H-2 (0-6")	Total/NA	Solid	8021B	10436
880-7522-7	H-3 (0-6")	Total/NA	Solid	8021B	10436
880-7522-8	H-4 (0-6")	Total/NA	Solid	8021B	10436
MB 880-10436/5-A	Method Blank	Total/NA	Solid	8021B	10436
LCS 880-10436/1-A	Lab Control Sample	Total/NA	Solid	8021B	10436
LCSD 880-10436/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	10436
880-7519-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	10436
880-7519-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	10436

Analysis Batch: 11149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7522-1	S-1 (0-6")	Total/NA	Solid	Total BTEX	
880-7522-2	S-2 (0-6")	Total/NA	Solid	Total BTEX	
880-7522-3	S-3 (0-6")	Total/NA	Solid	Total BTEX	
880-7522-4	S-4 (0-6")	Total/NA	Solid	Total BTEX	
880-7522-5	H-1 (0-6")	Total/NA	Solid	Total BTEX	
880-7522-6	H-2 (0-6")	Total/NA	Solid	Total BTEX	
880-7522-7	H-3 (0-6")	Total/NA	Solid	Total BTEX	
880-7522-8	H-4 (0-6")	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 10871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7522-1	S-1 (0-6")	Total/NA	Solid	8015NM Prep	
880-7522-2	S-2 (0-6")	Total/NA	Solid	8015NM Prep	
880-7522-3	S-3 (0-6")	Total/NA	Solid	8015NM Prep	
880-7522-4	S-4 (0-6")	Total/NA	Solid	8015NM Prep	
880-7522-5	H-1 (0-6")	Total/NA	Solid	8015NM Prep	
880-7522-6	H-2 (0-6")	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: NT Global
Project/Site: South Vacuum Unit 354

Job ID: 880-7522-1
SDG: Lea Co, NM

GC Semi VOA (Continued)

Prep Batch: 10871 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7522-7	H-3 (0-6")	Total/NA	Solid	8015NM Prep	
880-7522-8	H-4 (0-6")	Total/NA	Solid	8015NM Prep	
MB 880-10871/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10871/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10871/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-7440-A-2-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-7440-A-2-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 10887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7522-1	S-1 (0-6")	Total/NA	Solid	8015B NM	10871
880-7522-2	S-2 (0-6")	Total/NA	Solid	8015B NM	10871
880-7522-3	S-3 (0-6")	Total/NA	Solid	8015B NM	10871
880-7522-4	S-4 (0-6")	Total/NA	Solid	8015B NM	10871
880-7522-5	H-1 (0-6")	Total/NA	Solid	8015B NM	10871
880-7522-6	H-2 (0-6")	Total/NA	Solid	8015B NM	10871
880-7522-7	H-3 (0-6")	Total/NA	Solid	8015B NM	10871
880-7522-8	H-4 (0-6")	Total/NA	Solid	8015B NM	10871
MB 880-10871/1-A	Method Blank	Total/NA	Solid	8015B NM	10871
LCS 880-10871/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10871
LCSD 880-10871/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10871
880-7440-A-2-E MS	Matrix Spike	Total/NA	Solid	8015B NM	10871
880-7440-A-2-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	10871

Analysis Batch: 10946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7522-1	S-1 (0-6")	Total/NA	Solid	8015 NM	
880-7522-2	S-2 (0-6")	Total/NA	Solid	8015 NM	
880-7522-3	S-3 (0-6")	Total/NA	Solid	8015 NM	
880-7522-4	S-4 (0-6")	Total/NA	Solid	8015 NM	
880-7522-5	H-1 (0-6")	Total/NA	Solid	8015 NM	
880-7522-6	H-2 (0-6")	Total/NA	Solid	8015 NM	
880-7522-7	H-3 (0-6")	Total/NA	Solid	8015 NM	
880-7522-8	H-4 (0-6")	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 10743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7522-1	S-1 (0-6")	Soluble	Solid	DI Leach	
880-7522-2	S-2 (0-6")	Soluble	Solid	DI Leach	
880-7522-3	S-3 (0-6")	Soluble	Solid	DI Leach	
880-7522-4	S-4 (0-6")	Soluble	Solid	DI Leach	
880-7522-5	H-1 (0-6")	Soluble	Solid	DI Leach	
880-7522-6	H-2 (0-6")	Soluble	Solid	DI Leach	
880-7522-7	H-3 (0-6")	Soluble	Solid	DI Leach	
880-7522-8	H-4 (0-6")	Soluble	Solid	DI Leach	
MB 880-10743/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-10743/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-10743/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-7522-5 MS	H-1 (0-6")	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: NT Global
Project/Site: South Vaccum Unit 354

Job ID: 880-7522-1
SDG: Lea Co, NM

HPLC/IC (Continued)

Leach Batch: 10743 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7522-5 MSD	H-1 (0-6")	Soluble	Solid	DI Leach	

Analysis Batch: 10944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7522-1	S-1 (0-6")	Soluble	Solid	300.0	10743
880-7522-2	S-2 (0-6")	Soluble	Solid	300.0	10743
880-7522-3	S-3 (0-6")	Soluble	Solid	300.0	10743
880-7522-4	S-4 (0-6")	Soluble	Solid	300.0	10743
880-7522-5	H-1 (0-6")	Soluble	Solid	300.0	10743
880-7522-6	H-2 (0-6")	Soluble	Solid	300.0	10743
880-7522-7	H-3 (0-6")	Soluble	Solid	300.0	10743
880-7522-8	H-4 (0-6")	Soluble	Solid	300.0	10743
MB 880-10743/1-A	Method Blank	Soluble	Solid	300.0	10743
LCS 880-10743/2-A	Lab Control Sample	Soluble	Solid	300.0	10743
LCSD 880-10743/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	10743
880-7522-5 MS	H-1 (0-6")	Soluble	Solid	300.0	10743
880-7522-5 MSD	H-1 (0-6")	Soluble	Solid	300.0	10743

Lab Chronicle

Client: NT Global
Project/Site: South Vaccum Unit 354

Job ID: 880-7522-1
SDG: Lea Co, NM

Client Sample ID: S-1 (0-6")

Lab Sample ID: 880-7522-1

Date Collected: 10/20/21 00:00

Matrix: Solid

Date Received: 10/25/21 11:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	10436	10/27/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10677	10/27/21 18:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10871	10/28/21 16:32	DM	XEN MID
Total/NA	Analysis	8015B NM		5			10887	10/30/21 02:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	10743	10/27/21 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			10944	10/29/21 13:28	CH	XEN MID

Client Sample ID: S-2 (0-6")

Lab Sample ID: 880-7522-2

Date Collected: 10/20/21 00:00

Matrix: Solid

Date Received: 10/25/21 11:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	10436	10/27/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10677	10/27/21 18:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10871	10/28/21 16:32	DM	XEN MID
Total/NA	Analysis	8015B NM		5			10887	10/30/21 02:21	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	10743	10/27/21 12:42	SC	XEN MID
Soluble	Analysis	300.0		5			10944	10/29/21 13:35	CH	XEN MID

Client Sample ID: S-3 (0-6")

Lab Sample ID: 880-7522-3

Date Collected: 10/20/21 00:00

Matrix: Solid

Date Received: 10/25/21 11:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	10436	10/27/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10677	10/27/21 19:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	10871	10/28/21 16:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10887	10/30/21 02:41	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	10743	10/27/21 12:42	SC	XEN MID
Soluble	Analysis	300.0		5			10944	10/29/21 13:43	CH	XEN MID

Client Sample ID: S-4 (0-6")

Lab Sample ID: 880-7522-4

Date Collected: 10/20/21 00:00

Matrix: Solid

Date Received: 10/25/21 11:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	10436	10/27/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10677	10/27/21 19:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: NT Global
Project/Site: South Vaccum Unit 354

Job ID: 880-7522-1
SDG: Lea Co, NM

Client Sample ID: S-4 (0-6")

Lab Sample ID: 880-7522-4

Date Collected: 10/20/21 00:00

Matrix: Solid

Date Received: 10/25/21 11:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10871	10/28/21 16:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10887	10/30/21 03:02	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	10743	10/27/21 12:42	SC	XEN MID
Soluble	Analysis	300.0		10			10944	10/29/21 13:50	CH	XEN MID

Client Sample ID: H-1 (0-6")

Lab Sample ID: 880-7522-5

Date Collected: 10/20/21 00:00

Matrix: Solid

Date Received: 10/25/21 11:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	10436	10/27/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10677	10/27/21 19:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10871	10/28/21 16:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10887	10/30/21 03:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	10743	10/27/21 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			10944	10/29/21 13:57	CH	XEN MID

Client Sample ID: H-2 (0-6")

Lab Sample ID: 880-7522-6

Date Collected: 10/20/21 00:00

Matrix: Solid

Date Received: 10/25/21 11:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	10436	10/27/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10677	10/27/21 20:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10871	10/28/21 16:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10887	10/30/21 03:42	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	10743	10/27/21 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			10944	10/29/21 14:18	CH	XEN MID

Client Sample ID: H-3 (0-6")

Lab Sample ID: 880-7522-7

Date Collected: 10/20/21 00:00

Matrix: Solid

Date Received: 10/25/21 11:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	10436	10/27/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10677	10/27/21 20:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10871	10/28/21 16:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10887	10/30/21 04:02	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: NT Global
Project/Site: South Vaccum Unit 354

Job ID: 880-7522-1
SDG: Lea Co, NM

Client Sample ID: H-3 (0-6")

Date Collected: 10/20/21 00:00

Date Received: 10/25/21 11:04

Lab Sample ID: 880-7522-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	10743	10/27/21 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			10944	10/29/21 14:26	CH	XEN MID

Client Sample ID: H-4 (0-6")

Date Collected: 10/20/21 00:00

Date Received: 10/25/21 11:04

Lab Sample ID: 880-7522-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	10436	10/27/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10677	10/27/21 20:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10871	10/28/21 16:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10887	10/30/21 04:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10743	10/27/21 12:42	SC	XEN MID
Soluble	Analysis	300.0		1			10944	10/29/21 14:47	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: NT Global
Project/Site: South Vaccum Unit 354

Job ID: 880-7522-1
SDG: Lea Co, NM

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: NT Global
Project/Site: South Vaccum Unit 354

Job ID: 880-7522-1
SDG: Lea Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Sample Summary

Client: NT Global
Project/Site: South Vaccum Unit 354

Job ID: 880-7522-1
SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-7522-1	S-1 (0-6")	Solid	10/20/21 00:00	10/25/21 11:04
880-7522-2	S-2 (0-6")	Solid	10/20/21 00:00	10/25/21 11:04
880-7522-3	S-3 (0-6")	Solid	10/20/21 00:00	10/25/21 11:04
880-7522-4	S-4 (0-6")	Solid	10/20/21 00:00	10/25/21 11:04
880-7522-5	H-1 (0-6")	Solid	10/20/21 00:00	10/25/21 11:04
880-7522-6	H-2 (0-6")	Solid	10/20/21 00:00	10/25/21 11:04
880-7522-7	H-3 (0-6")	Solid	10/20/21 00:00	10/25/21 11:04
880-7522-8	H-4 (0-6")	Solid	10/20/21 00:00	10/25/21 11:04



Chain of Custody

Wor



880-7522 Chain of Custody

Page 1 of 1



Project Manager	Mike Carmona	Bill to (if different)	
Company Name	NTG Environmental	Company Name	
Address	701 Tradewinds BLVD	Address	
City, State ZIP	Midland, TX 79706	City, State ZIP	
Phone	432-813-0263	Email	incarmona@ntglobal.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RCC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other	

[illegible]

Additoinal Comments:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		10-25-21			
		1050			

Login Sample Receipt Checklist

Client: NT Global

Job Number: 880-7522-1

SDG Number: Lea Co, NM

Login Number: 7522

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Xenco, Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Report to:

Mike Carmona



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

NTG-New Tech Global Environmental

Project Name: South Vacuum Unit 354

Work Order: E112047

Job Number: 21106-0001

Received: 12/9/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/15/21

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted 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 NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 12/15/21

Mike Carmona
911 Regional Park Dr.
Houston, TX 77060



Project Name: South Vacuum Unit 354
Workorder: E112047
Date Received: 12/9/2021 12:05:00PM

Mike Carmona,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/9/2021 12:05:00PM, under the Project Name: South Vacuum Unit 354.

The analytical test results summarized in this report with the Project Name: South Vacuum Unit 354 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
T-1 (0-1')	5
T-1 (1')	6
T-2 (0-1')	7
T-2 (1')	8
T-3 (0-1')	9
T-3 (1')	10
T-4 (0-1')	11
T-4 (1')	12
QC Summary Data	13
QC - Volatile Organics by EPA 8021B	13
QC - Nonhalogenated Organics by EPA 8015D - GRO	14
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	15
QC - Anions by EPA 300.0/9056A	16
Definitions and Notes	17
Chain of Custody etc.	18

Sample Summary

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: South Vacuum Unit 354 Project Number: 21106-0001 Project Manager: Mike Carmona	Reported: 12/15/21 15:59
---	--	------------------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
T-1 (0-1')	E112047-01A	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
	E112047-01B	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
T-1 (1')	E112047-02A	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
	E112047-02B	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
T-2 (0-1')	E112047-03A	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
	E112047-03B	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
T-2 (1')	E112047-04A	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
	E112047-04B	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
T-3 (0-1')	E112047-05A	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
	E112047-05B	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
T-3 (1')	E112047-06A	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
	E112047-06B	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
T-4 (0-1')	E112047-07A	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
	E112047-07B	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
T-4 (1')	E112047-08A	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
	E112047-08B	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.



Sample Data

NTG-New Tech Global Environmental
911 Regional Park Dr.
Houston TX, 77060

Project Name: South Vacuum Unit 354
Project Number: 21106-0001
Project Manager: Mike Carmona

Reported:
12/15/2021 3:59:02PM

T-1 (0-1')

E112047-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150036
Benzene	ND	0.0250	1	12/10/21	12/14/21	
Ethylbenzene	ND	0.0250	1	12/10/21	12/14/21	
Toluene	ND	0.0250	1	12/10/21	12/14/21	
o-Xylene	ND	0.0250	1	12/10/21	12/14/21	
p,m-Xylene	ND	0.0500	1	12/10/21	12/14/21	
Total Xylenes	ND	0.0250	1	12/10/21	12/14/21	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150036
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/21	12/14/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.7 %	70-130	12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2151004
Diesel Range Organics (C10-C28)	1580	25.0	1	12/13/21	12/14/21	
Oil Range Organics (C28-C36)	968	50.0	1	12/13/21	12/14/21	
Surrogate: n-Nonane		123 %	50-200	12/13/21	12/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2150064
Chloride	1320	100	5	12/13/21	12/13/21	



Sample Data

NTG-New Tech Global Environmental
911 Regional Park Dr.
Houston TX, 77060

Project Name: South Vacuum Unit 354
Project Number: 21106-0001
Project Manager: Mike Carmona

Reported:
12/15/2021 3:59:02PM

T-1 (1')

E112047-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150036
Benzene	ND	0.0250	1	12/10/21	12/14/21	
Ethylbenzene	ND	0.0250	1	12/10/21	12/14/21	
Toluene	ND	0.0250	1	12/10/21	12/14/21	
o-Xylene	ND	0.0250	1	12/10/21	12/14/21	
p,m-Xylene	ND	0.0500	1	12/10/21	12/14/21	
Total Xylenes	ND	0.0250	1	12/10/21	12/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150036
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/21	12/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.5 %	70-130	12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2151004
Diesel Range Organics (C10-C28)	947	50.0	2	12/13/21	12/15/21	
Oil Range Organics (C28-C36)	859	100	2	12/13/21	12/15/21	
<i>Surrogate: n-Nonane</i>						
		122 %	50-200	12/13/21	12/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2150064
Chloride	1440	20.0	1	12/13/21	12/13/21	



Sample Data

NTG-New Tech Global Environmental
911 Regional Park Dr.
Houston TX, 77060

Project Name: South Vacuum Unit 354
Project Number: 21106-0001
Project Manager: Mike Carmona

Reported:
12/15/2021 3:59:02PM

T-2 (0-1')

E112047-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150036
Benzene	ND	0.0250	1	12/10/21	12/14/21	
Ethylbenzene	ND	0.0250	1	12/10/21	12/14/21	
Toluene	ND	0.0250	1	12/10/21	12/14/21	
o-Xylene	ND	0.0250	1	12/10/21	12/14/21	
p,m-Xylene	ND	0.0500	1	12/10/21	12/14/21	
Total Xylenes	ND	0.0250	1	12/10/21	12/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150036
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/21	12/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.4 %	70-130	12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2151004
Diesel Range Organics (C10-C28)	41.6	25.0	1	12/13/21	12/15/21	
Oil Range Organics (C28-C36)	79.9	50.0	1	12/13/21	12/15/21	
<i>Surrogate: n-Nonane</i>						
		108 %	50-200	12/13/21	12/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2150064
Chloride	3290	40.0	2	12/13/21	12/14/21	



Sample Data

NTG-New Tech Global Environmental
911 Regional Park Dr.
Houston TX, 77060

Project Name: South Vacuum Unit 354
Project Number: 21106-0001
Project Manager: Mike Carmona

Reported:
12/15/2021 3:59:02PM

T-2 (1')

E112047-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150036
Benzene	ND	0.0250	1	12/10/21	12/14/21	
Ethylbenzene	ND	0.0250	1	12/10/21	12/14/21	
Toluene	ND	0.0250	1	12/10/21	12/14/21	
o-Xylene	ND	0.0250	1	12/10/21	12/14/21	
p,m-Xylene	ND	0.0500	1	12/10/21	12/14/21	
Total Xylenes	ND	0.0250	1	12/10/21	12/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150036
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/21	12/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.4 %	70-130	12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2151004
Diesel Range Organics (C10-C28)	ND	25.0	1	12/13/21	12/14/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/13/21	12/14/21	
<i>Surrogate: n-Nonane</i>						
		111 %	50-200	12/13/21	12/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2150064
Chloride	1360	20.0	1	12/13/21	12/14/21	



Sample Data

NTG-New Tech Global Environmental
911 Regional Park Dr.
Houston TX, 77060

Project Name: South Vacuum Unit 354
Project Number: 21106-0001
Project Manager: Mike Carmona

Reported:
12/15/2021 3:59:02PM

T-3 (0-1')

E112047-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150036
Benzene	ND	0.0250	1	12/10/21	12/14/21	
Ethylbenzene	ND	0.0250	1	12/10/21	12/14/21	
Toluene	ND	0.0250	1	12/10/21	12/14/21	
o-Xylene	ND	0.0250	1	12/10/21	12/14/21	
p,m-Xylene	ND	0.0500	1	12/10/21	12/14/21	
Total Xylenes	ND	0.0250	1	12/10/21	12/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150036
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/21	12/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.1 %	70-130	12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2151004
Diesel Range Organics (C10-C28)	92.0	25.0	1	12/13/21	12/14/21	
Oil Range Organics (C28-C36)	130	50.0	1	12/13/21	12/14/21	
<i>Surrogate: n-Nonane</i>						
		112 %	50-200	12/13/21	12/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2150064
Chloride	470	20.0	1	12/13/21	12/14/21	



Sample Data

NTG-New Tech Global Environmental
911 Regional Park Dr.
Houston TX, 77060

Project Name: South Vacuum Unit 354
Project Number: 21106-0001
Project Manager: Mike Carmona

Reported:
12/15/2021 3:59:02PM

T-3 (1')

E112047-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150036
Benzene	ND	0.0250	1	12/10/21	12/14/21	
Ethylbenzene	ND	0.0250	1	12/10/21	12/14/21	
Toluene	ND	0.0250	1	12/10/21	12/14/21	
o-Xylene	ND	0.0250	1	12/10/21	12/14/21	
p,m-Xylene	ND	0.0500	1	12/10/21	12/14/21	
Total Xylenes	ND	0.0250	1	12/10/21	12/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.7 %	70-130		12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150036
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/21	12/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	100 %	70-130		12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2151004
Diesel Range Organics (C10-C28)	122	25.0	1	12/13/21	12/14/21	
Oil Range Organics (C28-C36)	146	50.0	1	12/13/21	12/14/21	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		12/13/21	12/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2150064
Chloride	210	20.0	1	12/13/21	12/14/21	



Sample Data

NTG-New Tech Global Environmental
911 Regional Park Dr.
Houston TX, 77060

Project Name: South Vacuum Unit 354
Project Number: 21106-0001
Project Manager: Mike Carmona

Reported:
12/15/2021 3:59:02PM

T-4 (0-1')

E112047-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150036
Benzene	ND	0.0250	1	12/10/21	12/14/21	
Ethylbenzene	ND	0.0250	1	12/10/21	12/14/21	
Toluene	ND	0.0250	1	12/10/21	12/14/21	
o-Xylene	ND	0.0250	1	12/10/21	12/14/21	
p,m-Xylene	ND	0.0500	1	12/10/21	12/14/21	
Total Xylenes	ND	0.0250	1	12/10/21	12/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.2 %	70-130		12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150036
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/21	12/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.5 %	70-130		12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2151004
Diesel Range Organics (C10-C28)	ND	25.0	1	12/13/21	12/14/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/13/21	12/14/21	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		12/13/21	12/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2150064
Chloride	602	40.0	2	12/13/21	12/14/21	



Sample Data

NTG-New Tech Global Environmental
911 Regional Park Dr.
Houston TX, 77060

Project Name: South Vacuum Unit 354
Project Number: 21106-0001
Project Manager: Mike Carmona

Reported:
12/15/2021 3:59:02PM

T-4 (1')

E112047-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150036
Benzene	ND	0.0250	1	12/10/21	12/14/21	
Ethylbenzene	ND	0.0250	1	12/10/21	12/14/21	
Toluene	ND	0.0250	1	12/10/21	12/14/21	
o-Xylene	ND	0.0250	1	12/10/21	12/14/21	
p,m-Xylene	ND	0.0500	1	12/10/21	12/14/21	
Total Xylenes	ND	0.0250	1	12/10/21	12/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.3 %	70-130		12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150036
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/21	12/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	100 %	70-130		12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2151004
Diesel Range Organics (C10-C28)	ND	25.0	1	12/13/21	12/14/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/13/21	12/14/21	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		12/13/21	12/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2150064
Chloride	426	20.0	1	12/13/21	12/14/21	



QC Summary Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: South Vacuum Unit 354 Project Number: 21106-0001 Project Manager: Mike Carmona	Reported: 12/15/2021 3:59:02PM
---	--	-----------------------------------

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2150036-BLK1)

Prepared: 12/10/21 Analyzed: 12/10/21

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.64		8.00		95.5	70-130			

LCS (2150036-BS1)

Prepared: 12/10/21 Analyzed: 12/10/21

Benzene	4.92	0.0250	5.00		98.3	70-130			
Ethylbenzene	4.87	0.0250	5.00		97.3	70-130			
Toluene	5.01	0.0250	5.00		100	70-130			
o-Xylene	4.97	0.0250	5.00		99.3	70-130			
p,m-Xylene	9.89	0.0500	10.0		98.9	70-130			
Total Xylenes	14.9	0.0250	15.0		99.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.02		8.00		100	70-130			

LCS Dup (2150036-BSD1)

Prepared: 12/10/21 Analyzed: 12/10/21

Benzene	4.82	0.0250	5.00		96.5	70-130	1.93	20	
Ethylbenzene	4.79	0.0250	5.00		95.9	70-130	1.51	20	
Toluene	4.93	0.0250	5.00		98.6	70-130	1.59	20	
o-Xylene	4.90	0.0250	5.00		98.0	70-130	1.35	20	
p,m-Xylene	9.75	0.0500	10.0		97.5	70-130	1.41	20	
Total Xylenes	14.7	0.0250	15.0		97.7	70-130	1.39	20	
Surrogate: 4-Bromochlorobenzene-PID	8.28		8.00		104	70-130			



QC Summary Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: South Vacuum Unit 354 Project Number: 21106-0001 Project Manager: Mike Carmona	Reported: 12/15/2021 3:59:02PM
---	--	--

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2150036-BLK1)

Prepared: 12/10/21 Analyzed: 12/10/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.4	70-130			

LCS (2150036-BS2)

Prepared: 12/10/21 Analyzed: 12/10/21

Gasoline Range Organics (C6-C10)	54.5	20.0	50.0		109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.95		8.00		99.3	70-130			

LCS Dup (2150036-BSD2)

Prepared: 12/10/21 Analyzed: 12/10/21

Gasoline Range Organics (C6-C10)	56.8	20.0	50.0		114	70-130	4.00	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.82		8.00		97.8	70-130			



QC Summary Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: South Vacuum Unit 354 Project Number: 21106-0001 Project Manager: Mike Carmona	Reported: 12/15/2021 3:59:02PM
---	--	-----------------------------------

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2151004-BLK1)

Prepared: 12/13/21 Analyzed: 12/13/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.7		50.0		111	50-200			

LCS (2151004-BS1)

Prepared: 12/13/21 Analyzed: 12/13/21

Diesel Range Organics (C10-C28)	525	25.0	500		105	38-132			
Surrogate: n-Nonane	54.2		50.0		108	50-200			

Matrix Spike (2151004-MS1)

Source: E112060-02

Prepared: 12/13/21 Analyzed: 12/13/21

Diesel Range Organics (C10-C28)	543	25.0	500	ND	109	38-132			
Surrogate: n-Nonane	54.5		50.0		109	50-200			

Matrix Spike Dup (2151004-MSD1)

Source: E112060-02

Prepared: 12/13/21 Analyzed: 12/13/21

Diesel Range Organics (C10-C28)	558	25.0	500	ND	112	38-132	2.70	20	
Surrogate: n-Nonane	53.6		50.0		107	50-200			



QC Summary Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: South Vacuum Unit 354 Project Number: 21106-0001 Project Manager: Mike Carmona	Reported: 12/15/2021 3:59:02PM
---	--	---------------------------------------

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2150064-BLK1)					Prepared: 12/13/21 Analyzed: 12/13/21				
Chloride	ND	20.0							
LCS (2150064-BS1)					Prepared: 12/13/21 Analyzed: 12/13/21				
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2150064-MS1)					Source: E112047-01		Prepared: 12/13/21 Analyzed: 12/13/21		
Chloride	1460	100	250	1320	59.4	80-120			M5
Matrix Spike Dup (2150064-MSD1)					Source: E112047-01		Prepared: 12/13/21 Analyzed: 12/13/21		
Chloride	1420	100	250	1320	42.8	80-120	2.88	20	M5

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.



Definitions and Notes

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: South Vacuum Unit 354 Project Number: 21106-0001 Project Manager: Mike Carmona	Reported: 12/15/21 15:59
---	--	------------------------------------

M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Chain of Custody

Work Order No: E112047Job # 21106-0001Page 1 of 1

Project Manager:	Mike Carmona	Bill to: (if different)	
Company Name:	NTG Environmental	Company Name:	
Address:	701 Tradewinds BLVD	Address:	
City, State ZIP:	Midland, TX 79706	City, State ZIP:	
Phone:	432-813-0263	Email:	mcarmona@ntglobal.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: <input type="checkbox"/>

Project Name:		Turn Around		ANALYSIS REQUEST										Preservative Codes				
Project Number:	214802	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code													None: NO	DI Water: H ₂ O	
Project Location	Lea Co, NM	Due Date:	Standard													Cool: Cool	MeOH: Me	
Sampler's Name:	NH	TAT starts the day received by the lab, if received by 4:30pm														HCL: HC	HNO ₃ : HN	
PO #:																H ₂ SO ₄ : H ₂	NaOH: Na	
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No	Parameters	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	HOLD								
Received Intact:	Yes No	Thermometer ID:																
Cooler Custody Seals:	Yes No N/A	Correction Factor:																
Sample Custody Seals:	Yes No N/A	Temperature Reading:																
Total Containers:		Corrected Temperature:																
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont												Sample Comments
T-1 (0-1')	12/8/2021	-	X	-	G	12	X	X	X									
T-1 (1')	12/8/2021	-	X	-	G	12	X	X	X									
T-2 (0-1')	12/8/2021	-	X	-	G	12	X	X	X									
T-2 (1')	12/8/2021	-	X	-	G	12	X	X	X									
T-3 (0-1')	12/8/2021	-	X	-	G	12	X	X	X									
T-3 (1')	12/8/2021	-	X	-	G	12	X	X	X									
T-4 (0-1')	12/8/2021	-	X	-	G	12	X	X	X									
T-4 (1')	12/8/2021	-	X	-	G	12	X	X	X									
						OC												
						12/9/21												

Additional Comments:

Samples received with visible ice 4°

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>Nica Huf</i>	2 <i>Carmona</i>	12/8/21/1:31	3 <i>Carmona</i>		
3		12/9/21/12:05	4		
5			6		

Envirotech Analytical Laboratory

Printed: 12/11/2021 3:31:26PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	NTG-New Tech Global Environmental	Date Received:	12/09/21 12:05	Work Order ID:	E112047
Phone:	(432) 685-3898	Date Logged In:	12/09/21 12:47	Logged In By:	Jessica Liesse
Email:	mcarmona@ntglobal.com	Due Date:	12/15/21 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? No
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: FedEx**Comments/Resolution****Sample Turn Around Time (TAT)**

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? No

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:

Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: n/a

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:

Mike Carmona



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

NTG-New Tech Global Environmental

Project Name: South Vacuum Unit 354

Work Order: E112048

Job Number: 21106-0001

Received: 12/9/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/14/21

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted 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 NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 12/14/21

Mike Carmona
911 Regional Park Dr.
Houston, TX 77060



Project Name: South Vacuum Unit 354
Workorder: E112048
Date Received: 12/9/2021 12:05:00PM

Mike Carmona,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/9/2021 12:05:00PM, under the Project Name: South Vacuum Unit 354.

The analytical test results summarized in this report with the Project Name: South Vacuum Unit 354 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
H-1 (0-0.5')	5
H-2 (0-0.5')	6
H-3 (0-0.5')	7
H-4 (0-0.5')	8
QC Summary Data	9
QC - Volatile Organics by EPA 8021B	9
QC - Nonhalogenated Organics by EPA 8015D - GRO	10
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

Sample Summary

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: South Vacuum Unit 354 Project Number: 21106-0001 Project Manager: Mike Carmona	Reported: 12/14/21 13:03
---	--	------------------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
H-1 (0-0.5')	E112048-01A	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
	E112048-01B	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
H-2 (0-0.5')	E112048-02A	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
	E112048-02B	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
H-3 (0-0.5')	E112048-03A	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
	E112048-03B	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
H-4 (0-0.5')	E112048-04A	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
	E112048-04B	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.



Sample Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: South Vacuum Unit 354 Project Number: 21106-0001 Project Manager: Mike Carmona	Reported: 12/14/2021 1:03:05PM
---	--	--

H-1 (0-0.5')

E112048-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150060
Benzene	ND	0.0250	1	12/10/21	12/11/21	
Ethylbenzene	ND	0.0250	1	12/10/21	12/11/21	
Toluene	ND	0.0250	1	12/10/21	12/11/21	
o-Xylene	ND	0.0250	1	12/10/21	12/11/21	
p,m-Xylene	ND	0.0500	1	12/10/21	12/11/21	
Total Xylenes	ND	0.0250	1	12/10/21	12/11/21	
Surrogate: 4-Bromochlorobenzene-PID	94.5 %	70-130		12/10/21	12/11/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150060
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/21	12/11/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.2 %	70-130		12/10/21	12/11/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150052
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/21	12/10/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/21	12/10/21	
Surrogate: n-Nonane	109 %	50-200		12/10/21	12/10/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2150062
Chloride	483	20.0	1	12/13/21	12/13/21	



Sample Data

NTG-New Tech Global Environmental
911 Regional Park Dr.
Houston TX, 77060

Project Name: South Vacuum Unit 354
Project Number: 21106-0001
Project Manager: Mike Carmona

Reported:
12/14/2021 1:03:05PM

H-2 (0-0.5')

E112048-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2150060	
Benzene	ND	0.0250	1	12/10/21	12/11/21	
Ethylbenzene	ND	0.0250	1	12/10/21	12/11/21	
Toluene	ND	0.0250	1	12/10/21	12/11/21	
o-Xylene	ND	0.0250	1	12/10/21	12/11/21	
p,m-Xylene	ND	0.0500	1	12/10/21	12/11/21	
Total Xylenes	ND	0.0250	1	12/10/21	12/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.7 %	70-130		12/10/21	12/11/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2150060	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/21	12/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.9 %	70-130		12/10/21	12/11/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RKS		Batch: 2150052	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/21	12/10/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/21	12/10/21	
<i>Surrogate: n-Nonane</i>	111 %	50-200		12/10/21	12/10/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2150062	
Chloride	460	20.0	1	12/13/21	12/13/21	



Sample Data

NTG-New Tech Global Environmental
911 Regional Park Dr.
Houston TX, 77060

Project Name: South Vacuum Unit 354
Project Number: 21106-0001
Project Manager: Mike Carmona

Reported:
12/14/2021 1:03:05PM

H-3 (0-0.5')

E112048-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150060
Benzene	ND	0.0250	1	12/10/21	12/11/21	
Ethylbenzene	ND	0.0250	1	12/10/21	12/11/21	
Toluene	ND	0.0250	1	12/10/21	12/11/21	
o-Xylene	ND	0.0250	1	12/10/21	12/11/21	
p,m-Xylene	ND	0.0500	1	12/10/21	12/11/21	
Total Xylenes	ND	0.0250	1	12/10/21	12/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.6 %	70-130		12/10/21	12/11/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150060
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/21	12/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.0 %	70-130		12/10/21	12/11/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150052
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/21	12/10/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/21	12/10/21	
<i>Surrogate: n-Nonane</i>						
	82.1 %	50-200		12/10/21	12/10/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2150062
Chloride	ND	20.0	1	12/13/21	12/13/21	



Sample Data

NTG-New Tech Global Environmental
911 Regional Park Dr.
Houston TX, 77060

Project Name: South Vacuum Unit 354
Project Number: 21106-0001
Project Manager: Mike Carmona

Reported:
12/14/2021 1:03:05PM

H-4 (0-0.5')

E112048-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150060
Benzene	ND	0.0250	1	12/10/21	12/11/21	
Ethylbenzene	ND	0.0250	1	12/10/21	12/11/21	
Toluene	ND	0.0250	1	12/10/21	12/11/21	
o-Xylene	ND	0.0250	1	12/10/21	12/11/21	
p,m-Xylene	ND	0.0500	1	12/10/21	12/11/21	
Total Xylenes	ND	0.0250	1	12/10/21	12/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.3 %	70-130		12/10/21	12/11/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150060
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/21	12/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.2 %	70-130		12/10/21	12/11/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150052
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/21	12/11/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/21	12/11/21	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		12/10/21	12/11/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2150062
Chloride	74.5	20.0	1	12/13/21	12/13/21	



QC Summary Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: South Vacuum Unit 354 Project Number: 21106-0001 Project Manager: Mike Carmona	Reported: 12/14/2021 1:03:05PM
---	--	-----------------------------------

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2150060-BLK1)

Prepared: 12/10/21 Analyzed: 12/11/21

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.40		8.00		92.6	70-130			

LCS (2150060-BS1)

Prepared: 12/10/21 Analyzed: 12/11/21

Benzene	4.67	0.0250	5.00		93.4	70-130			
Ethylbenzene	4.56	0.0250	5.00		91.2	70-130			
Toluene	4.74	0.0250	5.00		94.8	70-130			
o-Xylene	4.66	0.0250	5.00		93.2	70-130			
p,m-Xylene	9.25	0.0500	10.0		92.5	70-130			
Total Xylenes	13.9	0.0250	15.0		92.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.2	70-130			

Matrix Spike (2150060-MS1)

Source: E112058-06

Prepared: 12/10/21 Analyzed: 12/11/21

Benzene	4.72	0.0250	5.00	ND	94.3	54-133			
Ethylbenzene	4.69	0.0250	5.00	ND	93.8	61-133			
Toluene	4.84	0.0250	5.00	ND	96.8	61-130			
o-Xylene	4.77	0.0250	5.00	ND	95.5	63-131			
p,m-Xylene	9.53	0.0500	10.0	ND	95.3	63-131			
Total Xylenes	14.3	0.0250	15.0	ND	95.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.96		8.00		99.5	70-130			

Matrix Spike Dup (2150060-MSD1)

Source: E112058-06

Prepared: 12/10/21 Analyzed: 12/11/21

Benzene	4.58	0.0250	5.00	ND	91.5	54-133	2.99	20	
Ethylbenzene	4.54	0.0250	5.00	ND	90.8	61-133	3.15	20	
Toluene	4.68	0.0250	5.00	ND	93.6	61-130	3.33	20	
o-Xylene	4.65	0.0250	5.00	ND	92.9	63-131	2.73	20	
p,m-Xylene	9.24	0.0500	10.0	ND	92.4	63-131	3.08	20	
Total Xylenes	13.9	0.0250	15.0	ND	92.6	63-131	2.96	20	
Surrogate: 4-Bromochlorobenzene-PID	8.06		8.00		101	70-130			



QC Summary Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: South Vacuum Unit 354 Project Number: 21106-0001 Project Manager: Mike Carmona	Reported: 12/14/2021 1:03:05PM
---	--	--

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2150060-BLK1)

Prepared: 12/10/21 Analyzed: 12/11/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		8.00		98.1	70-130			

LCS (2150060-BS2)

Prepared: 12/10/21 Analyzed: 12/11/21

Gasoline Range Organics (C6-C10)	53.4	20.0	50.0		107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.00		8.00		100	70-130			

Matrix Spike (2150060-MS2)

Source: E112058-06

Prepared: 12/10/21 Analyzed: 12/11/21

Gasoline Range Organics (C6-C10)	53.5	20.0	50.0	ND	107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.08		8.00		101	70-130			

Matrix Spike Dup (2150060-MSD2)

Source: E112058-06

Prepared: 12/10/21 Analyzed: 12/11/21

Gasoline Range Organics (C6-C10)	53.0	20.0	50.0	ND	106	70-130	0.869	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.96		8.00		99.4	70-130			



QC Summary Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: South Vacuum Unit 354 Project Number: 21106-0001 Project Manager: Mike Carmona	Reported: 12/14/2021 1:03:05PM
---	--	--

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2150052-BLK1)

Prepared: 12/10/21 Analyzed: 12/10/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	58.3		50.0		117	50-200			

LCS (2150052-BS1)

Prepared: 12/10/21 Analyzed: 12/10/21

Diesel Range Organics (C10-C28)	557	25.0	500		111	38-132			
Surrogate: n-Nonane	53.4		50.0		107	50-200			

Matrix Spike (2150052-MS1)

Source: E112056-05

Prepared: 12/10/21 Analyzed: 12/10/21

Diesel Range Organics (C10-C28)	643	25.0	500	59.1	117	38-132			
Surrogate: n-Nonane	55.8		50.0		112	50-200			

Matrix Spike Dup (2150052-MSD1)

Source: E112056-05

Prepared: 12/10/21 Analyzed: 12/10/21

Diesel Range Organics (C10-C28)	66.5	25.0	500	59.1	1.47	38-132	163	20	M2
Surrogate: n-Nonane	55.5		50.0		111	50-200			



QC Summary Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: South Vacuum Unit 354 Project Number: 21106-0001 Project Manager: Mike Carmona	Reported: 12/14/2021 1:03:05PM
---	--	--

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2150062-BLK1)

Prepared: 12/13/21 Analyzed: 12/13/21

Chloride ND 20.0

LCS (2150062-BS1)

Prepared: 12/13/21 Analyzed: 12/13/21

Chloride 250 20.0 250 100 90-110

Matrix Spike (2150062-MS1)

Source: E112043-01

Prepared: 12/13/21 Analyzed: 12/13/21

Chloride 62900 2000 250 41100 NR 80-120 M5

Matrix Spike Dup (2150062-MSD1)

Source: E112043-01

Prepared: 12/13/21 Analyzed: 12/13/21

Chloride 53300 2000 250 41100 NR 80-120 16.5 20 M5

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.



Definitions and Notes

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: South Vacuum Unit 354 Project Number: 21106-0001 Project Manager: Mike Carmona	Reported: 12/14/21 13:03
---	--	------------------------------------

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

M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Sub# 21106-0001

Page 1 of 1

Project Manager:	Mike Carmona	Bill to: (if different)	
Company Name:	NTG Environmental	Company Name:	
Address:	701 Tradewinds BLVD	Address:	
City, State ZIP:	Midland, TX 79706	City, State ZIP:	
Phone:	432-813-0263	Email:	mcarmona@ntglobal.com

Work Order Comments			
Program: UST/PST	<input type="checkbox"/> PRP	<input type="checkbox"/> Brownfields	<input type="checkbox"/> RRC
State of Project:	<input type="checkbox"/> Superfund	<input type="checkbox"/>	<input type="checkbox"/>
Reporting: Level II	<input type="checkbox"/> Level III	<input type="checkbox"/> PST/UST	<input type="checkbox"/> TRRP
Deliverables: EDD	<input type="checkbox"/>	ADaPT	<input type="checkbox"/> Other:

[illegible]

Additional Comments: Samples received with visible ice 4°

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)		Received by: (Signature)		Date/Time		Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
1	Nigel Harv			12.3.21 / 11:31		2					
3		Caitlynn Christop		12/9/21 12:05		4					
5						6					

Envirotech Analytical Laboratory

Printed: 12/11/2021 3:11:32PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	NTG-New Tech Global Environmental	Date Received:	12/09/21 12:05	Work Order ID:	E112048
Phone:	(432) 685-3898	Date Logged In:	12/09/21 12:56	Logged In By:	Jessica Liesse
Email:	mcarmona@ntglobal.com	Due Date:	12/15/21 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? No
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: FedEx**Comments/Resolution**

Physical sample ID does not match COC.
Noted on COC

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: n/a

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



Environment Testing
America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-11144-1

Laboratory Sample Delivery Group: Lea Co, NM
Client Project/Site: South Vaccum Unit 354

For:

NT Global
701 Tradewinds Blvd
Midland, Texas 79706

Attn: Gordon Banks

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
2/16/2022 3:52:54 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: NT Global
Project/Site: South Vaccum Unit 354

Laboratory Job ID: 880-11144-1
SDG: Lea Co, NM

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	14
QC Sample Results	16
QC Association Summary	22
Lab Chronicle	26
Certification Summary	30
Method Summary	31
Sample Summary	32
Chain of Custody	33
Receipt Checklists	35

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Definitions/Glossary

Client: NT Global
Project/Site: South Vacuum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: NT Global
Project/Site: South Vaccum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

Job ID: 880-11144-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-11144-1

Receipt

The samples were received on 2/9/2022 4:23 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.3°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with preparation batch 880-19118 and analytical batch 880-19027 were outside control limits: (880-11166-A-1-B MS) and (880-11166-A-1-C MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: NT Global
Project/Site: South Vacuum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

Client Sample ID: BH-1 (0-1')

Lab Sample ID: 880-11144-1

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/11/22 08:30	02/12/22 01:44	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/11/22 08:30	02/12/22 01:44	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/11/22 08:30	02/12/22 01:44	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		02/11/22 08:30	02/12/22 01:44	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/11/22 08:30	02/12/22 01:44	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		02/11/22 08:30	02/12/22 01:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	02/11/22 08:30	02/12/22 01:44	1
1,4-Difluorobenzene (Surr)	103		70 - 130	02/11/22 08:30	02/12/22 01:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			02/14/22 09:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/15/22 20:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/10/22 11:25	02/11/22 21:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/10/22 11:25	02/11/22 21:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/10/22 11:25	02/11/22 21:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	02/10/22 11:25	02/11/22 21:52	1
o-Terphenyl	83		70 - 130	02/10/22 11:25	02/11/22 21:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	941		4.97		mg/Kg			02/16/22 06:03	1

Client Sample ID: BH-1 (1'-2')

Lab Sample ID: 880-11144-2

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/11/22 08:30	02/12/22 02:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/11/22 08:30	02/12/22 02:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/11/22 08:30	02/12/22 02:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/11/22 08:30	02/12/22 02:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/11/22 08:30	02/12/22 02:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/11/22 08:30	02/12/22 02:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	02/11/22 08:30	02/12/22 02:05	1
1,4-Difluorobenzene (Surr)	96		70 - 130	02/11/22 08:30	02/12/22 02:05	1

Eurofins Midland

Client Sample Results

Client: NT Global
Project/Site: South Vacuum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

Client Sample ID: BH-1 (1'-2')

Lab Sample ID: 880-11144-2

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/14/22 09:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/15/22 20:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/10/22 11:25	02/11/22 22:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/10/22 11:25	02/11/22 22:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/10/22 11:25	02/11/22 22:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				02/10/22 11:25	02/11/22 22:55	1
o-Terphenyl	102		70 - 130				02/10/22 11:25	02/11/22 22:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	993		4.98		mg/Kg			02/16/22 06:15	1

Client Sample ID: BH-1 (2'-3')

Lab Sample ID: 880-11144-3

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/11/22 08:30	02/12/22 02:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/22 08:30	02/12/22 02:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/22 08:30	02/12/22 02:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/11/22 08:30	02/12/22 02:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/22 08:30	02/12/22 02:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/11/22 08:30	02/12/22 02:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130				02/11/22 08:30	02/12/22 02:25	1
1,4-Difluorobenzene (Surr)	95		70 - 130				02/11/22 08:30	02/12/22 02:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/14/22 09:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/15/22 20:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/10/22 11:25	02/11/22 23:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/10/22 11:25	02/11/22 23:17	1

Eurofins Midland

Client Sample Results

Client: NT Global
Project/Site: South Vacuum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

Client Sample ID: BH-1 (2'-3')

Lab Sample ID: 880-11144-3

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/10/22 11:25	02/11/22 23:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				02/10/22 11:25	02/11/22 23:17	1
o-Terphenyl	93		70 - 130				02/10/22 11:25	02/11/22 23:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	313		4.95		mg/Kg			02/16/22 06:51	1

Client Sample ID: BH-1 (3'-4')

Lab Sample ID: 880-11144-4

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/11/22 08:30	02/12/22 02:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/22 08:30	02/12/22 02:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/22 08:30	02/12/22 02:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/11/22 08:30	02/12/22 02:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/22 08:30	02/12/22 02:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/11/22 08:30	02/12/22 02:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130				02/11/22 08:30	02/12/22 02:45	1
1,4-Difluorobenzene (Surr)	102		70 - 130				02/11/22 08:30	02/12/22 02:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/14/22 09:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/15/22 20:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/10/22 11:25	02/11/22 23:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/10/22 11:25	02/11/22 23:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/10/22 11:25	02/11/22 23:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				02/10/22 11:25	02/11/22 23:38	1
o-Terphenyl	85		70 - 130				02/10/22 11:25	02/11/22 23:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	232		5.05		mg/Kg			02/16/22 07:02	1

Eurofins Midland

Client Sample Results

Client: NT Global
Project/Site: South Vaccum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

Client Sample ID: BH-1 (4'-5')

Lab Sample ID: 880-11144-5

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/11/22 08:30	02/12/22 03:06	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/11/22 08:30	02/12/22 03:06	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/11/22 08:30	02/12/22 03:06	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/11/22 08:30	02/12/22 03:06	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/11/22 08:30	02/12/22 03:06	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/11/22 08:30	02/12/22 03:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	02/11/22 08:30	02/12/22 03:06	1
1,4-Difluorobenzene (Surr)	102		70 - 130	02/11/22 08:30	02/12/22 03:06	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/14/22 09:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/15/22 20:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/10/22 11:25	02/11/22 23:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/10/22 11:25	02/11/22 23:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/10/22 11:25	02/11/22 23:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	02/10/22 11:25	02/11/22 23:59	1
o-Terphenyl	95		70 - 130	02/10/22 11:25	02/11/22 23:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.7		4.96		mg/Kg			02/16/22 07:14	1

Client Sample ID: BH-1 (5'-6')

Lab Sample ID: 880-11144-6

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/11/22 08:30	02/12/22 03:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/11/22 08:30	02/12/22 03:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/11/22 08:30	02/12/22 03:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/11/22 08:30	02/12/22 03:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/11/22 08:30	02/12/22 03:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/11/22 08:30	02/12/22 03:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130	02/11/22 08:30	02/12/22 03:26	1
1,4-Difluorobenzene (Surr)	80		70 - 130	02/11/22 08:30	02/12/22 03:26	1

Eurofins Midland

Client Sample Results

Client: NT Global
Project/Site: South Vacuum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

Client Sample ID: BH-1 (5'-6')

Lab Sample ID: 880-11144-6

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/14/22 09:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/15/22 20:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/10/22 11:25	02/12/22 00:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/10/22 11:25	02/12/22 00:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/10/22 11:25	02/12/22 00:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				02/10/22 11:25	02/12/22 00:20	1
o-Terphenyl	78		70 - 130				02/10/22 11:25	02/12/22 00:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.9		4.97		mg/Kg			02/16/22 07:26	1

Client Sample ID: BH-2 (0-1')

Lab Sample ID: 880-11144-7

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/11/22 08:30	02/12/22 03:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/22 08:30	02/12/22 03:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/22 08:30	02/12/22 03:47	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/11/22 08:30	02/12/22 03:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/22 08:30	02/12/22 03:47	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/11/22 08:30	02/12/22 03:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				02/11/22 08:30	02/12/22 03:47	1
1,4-Difluorobenzene (Surr)	95		70 - 130				02/11/22 08:30	02/12/22 03:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/14/22 09:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/15/22 20:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/10/22 11:25	02/12/22 00:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/10/22 11:25	02/12/22 00:41	1

Eurofins Midland

Client Sample Results

Client: NT Global
Project/Site: South Vacuum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

Client Sample ID: BH-2 (0-1')

Lab Sample ID: 880-11144-7

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/10/22 11:25	02/12/22 00:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				02/10/22 11:25	02/12/22 00:41	1
o-Terphenyl	86		70 - 130				02/10/22 11:25	02/12/22 00:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	300		4.99		mg/Kg			02/16/22 07:38	1

Client Sample ID: BH-2 (1'-2')

Lab Sample ID: 880-11144-8

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/11/22 08:30	02/12/22 04:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/11/22 08:30	02/12/22 04:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/11/22 08:30	02/12/22 04:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/11/22 08:30	02/12/22 04:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/11/22 08:30	02/12/22 04:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/11/22 08:30	02/12/22 04:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130				02/11/22 08:30	02/12/22 04:07	1
1,4-Difluorobenzene (Surr)	103		70 - 130				02/11/22 08:30	02/12/22 04:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/14/22 09:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/15/22 20:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/10/22 11:25	02/12/22 01:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/10/22 11:25	02/12/22 01:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/10/22 11:25	02/12/22 01:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				02/10/22 11:25	02/12/22 01:02	1
o-Terphenyl	105		70 - 130				02/10/22 11:25	02/12/22 01:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	318		4.95		mg/Kg			02/16/22 07:50	1

Eurofins Midland

Client Sample Results

Client: NT Global
Project/Site: South Vaccum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

Client Sample ID: BH-2 (2'-3')

Lab Sample ID: 880-11144-9

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/11/22 08:30	02/12/22 04:27	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/11/22 08:30	02/12/22 04:27	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/11/22 08:30	02/12/22 04:27	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		02/11/22 08:30	02/12/22 04:27	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/11/22 08:30	02/12/22 04:27	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		02/11/22 08:30	02/12/22 04:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	02/11/22 08:30	02/12/22 04:27	1
1,4-Difluorobenzene (Surr)	95		70 - 130	02/11/22 08:30	02/12/22 04:27	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			02/14/22 09:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/15/22 20:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/10/22 11:25	02/12/22 01:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/10/22 11:25	02/12/22 01:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/10/22 11:25	02/12/22 01:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	02/10/22 11:25	02/12/22 01:23	1
o-Terphenyl	91		70 - 130	02/10/22 11:25	02/12/22 01:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	348		5.04		mg/Kg			02/16/22 08:25	1

Client Sample ID: BH-2 (3'-4')

Lab Sample ID: 880-11144-10

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/11/22 08:30	02/12/22 04:48	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/11/22 08:30	02/12/22 04:48	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/11/22 08:30	02/12/22 04:48	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		02/11/22 08:30	02/12/22 04:48	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/11/22 08:30	02/12/22 04:48	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		02/11/22 08:30	02/12/22 04:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	02/11/22 08:30	02/12/22 04:48	1
1,4-Difluorobenzene (Surr)	101		70 - 130	02/11/22 08:30	02/12/22 04:48	1

Eurofins Midland

Client Sample Results

Client: NT Global
Project/Site: South Vacuum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

Client Sample ID: BH-2 (3'-4')

Lab Sample ID: 880-11144-10

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			02/14/22 09:32	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/15/22 20:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/10/22 11:25	02/12/22 01:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/10/22 11:25	02/12/22 01:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/10/22 11:25	02/12/22 01:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				02/10/22 11:25	02/12/22 01:44	1
o-Terphenyl	84		70 - 130				02/10/22 11:25	02/12/22 01:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	376		4.98		mg/Kg			02/16/22 08:37	1

Client Sample ID: BH-2 (4'-5')

Lab Sample ID: 880-11144-11

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/11/22 10:00	02/12/22 17:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/22 10:00	02/12/22 17:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/22 10:00	02/12/22 17:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/11/22 10:00	02/12/22 17:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/22 10:00	02/12/22 17:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/11/22 10:00	02/12/22 17:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				02/11/22 10:00	02/12/22 17:13	1
1,4-Difluorobenzene (Surr)	88		70 - 130				02/11/22 10:00	02/12/22 17:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/14/22 08:59	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/15/22 20:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/10/22 11:25	02/12/22 02:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/10/22 11:25	02/12/22 02:26	1

Eurofins Midland

Client Sample Results

Client: NT Global
Project/Site: South Vacuum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

Client Sample ID: BH-2 (4'-5')

Lab Sample ID: 880-11144-11

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/10/22 11:25	02/12/22 02:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	02/10/22 11:25	02/12/22 02:26	1
o-Terphenyl	78		70 - 130	02/10/22 11:25	02/12/22 02:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.0		4.97		mg/Kg			02/16/22 09:13	1

Surrogate Summary

Client: NT Global
Project/Site: South Vaccum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-11144-1	BH-1 (0-1')	129	103
880-11144-1 MS	BH-1 (0-1')	132 S1+	101
880-11144-1 MSD	BH-1 (0-1')	134 S1+	97
880-11144-2	BH-1 (1'-2')	135 S1+	96
880-11144-3	BH-1 (2'-3')	136 S1+	95
880-11144-4	BH-1 (3'-4')	136 S1+	102
880-11144-5	BH-1 (4'-5')	124	102
880-11144-6	BH-1 (5'-6')	146 S1+	80
880-11144-7	BH-2 (0-1')	128	95
880-11144-8	BH-2 (1'-2')	137 S1+	103
880-11144-9	BH-2 (2'-3')	125	95
880-11144-10	BH-2 (3'-4')	132 S1+	101
880-11144-11	BH-2 (4'-5')	132 S1+	88
880-11166-A-1-B MS	Matrix Spike	93	94
880-11166-A-1-C MSD	Matrix Spike Duplicate	109	98
LCS 880-19021/1-A	Lab Control Sample	113	90
LCS 880-19118/1-A	Lab Control Sample	101	100
LCSD 880-19021/2-A	Lab Control Sample Dup	111	101
LCSD 880-19118/2-A	Lab Control Sample Dup	98	104
MB 880-19021/5-A	Method Blank	130	103
MB 880-19022/5-A	Method Blank	120	93
MB 880-19034/5-A	Method Blank	80	83
MB 880-19118/5-A	Method Blank	80	83
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-11144-1	BH-1 (0-1')	83	83
880-11144-1 MS	BH-1 (0-1')	87	84
880-11144-1 MSD	BH-1 (0-1')	78	75
880-11144-2	BH-1 (1'-2')	108	102
880-11144-3	BH-1 (2'-3')	96	93
880-11144-4	BH-1 (3'-4')	85	85
880-11144-5	BH-1 (4'-5')	95	95
880-11144-6	BH-1 (5'-6')	81	78
880-11144-7	BH-2 (0-1')	88	86
880-11144-8	BH-2 (1'-2')	107	105
880-11144-9	BH-2 (2'-3')	90	91
880-11144-10	BH-2 (3'-4')	87	84
880-11144-11	BH-2 (4'-5')	81	78
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Midland

Surrogate Summary

Client: NT Global
Project/Site: South Vaccum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO2	OTPH2				
		(70-130)	(70-130)				
LCS 880-19037/2-A	Lab Control Sample	99	92				
LCSD 880-19037/3-A	Lab Control Sample Dup	90	88				
MB 880-19037/1-A	Method Blank	81	80				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

QC Sample Results

Client: NT Global
Project/Site: South Vacuum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-19021/5-A

Matrix: Solid

Analysis Batch: 19117

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19021

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/11/22 08:30	02/12/22 01:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/22 08:30	02/12/22 01:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/22 08:30	02/12/22 01:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/11/22 08:30	02/12/22 01:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/22 08:30	02/12/22 01:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/11/22 08:30	02/12/22 01:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	02/11/22 08:30	02/12/22 01:15	1
1,4-Difluorobenzene (Surr)	103		70 - 130	02/11/22 08:30	02/12/22 01:15	1

Lab Sample ID: LCS 880-19021/1-A

Matrix: Solid

Analysis Batch: 19117

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19021

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08278		mg/Kg		83	70 - 130
Toluene	0.100	0.09158		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.09870		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.1877		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09873		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: LCSD 880-19021/2-A

Matrix: Solid

Analysis Batch: 19117

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19021

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08439		mg/Kg		84	70 - 130	2	35
Toluene	0.100	0.08566		mg/Kg		86	70 - 130	7	35
Ethylbenzene	0.100	0.08964		mg/Kg		90	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1671		mg/Kg		84	70 - 130	12	35
o-Xylene	0.100	0.08581		mg/Kg		86	70 - 130	14	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-11144-1 MS

Matrix: Solid

Analysis Batch: 19117

Client Sample ID: BH-1 (0-1')

Prep Type: Total/NA

Prep Batch: 19021

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U	0.100	0.08152		mg/Kg		81	70 - 130
Toluene	<0.00198	U	0.100	0.08753		mg/Kg		87	70 - 130

Eurofins Midland

QC Sample Results

Client: NT Global
Project/Site: South Vacuum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-11144-1 MS

Matrix: Solid

Analysis Batch: 19117

Client Sample ID: BH-1 (0-1')

Prep Type: Total/NA

Prep Batch: 19021

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00198	U	0.100	0.08461		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	<0.00397	U	0.201	0.1647		mg/Kg		82	70 - 130
o-Xylene	<0.00198	U	0.100	0.07927		mg/Kg		79	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-11144-1 MSD

Matrix: Solid

Analysis Batch: 19117

Client Sample ID: BH-1 (0-1')

Prep Type: Total/NA

Prep Batch: 19021

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0994	0.07213		mg/Kg		73	70 - 130	12	35
Toluene	<0.00198	U	0.0994	0.07419		mg/Kg		75	70 - 130	17	35
Ethylbenzene	<0.00198	U	0.0994	0.07569		mg/Kg		76	70 - 130	11	35
m-Xylene & p-Xylene	<0.00397	U	0.199	0.1491		mg/Kg		75	70 - 130	10	35
o-Xylene	<0.00198	U	0.0994	0.07351		mg/Kg		74	70 - 130	8	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: MB 880-19022/5-A

Matrix: Solid

Analysis Batch: 19117

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19022

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/11/22 08:30	02/11/22 13:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/22 08:30	02/11/22 13:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/22 08:30	02/11/22 13:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/11/22 08:30	02/11/22 13:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/22 08:30	02/11/22 13:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/11/22 08:30	02/11/22 13:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	02/11/22 08:30	02/11/22 13:40	1
1,4-Difluorobenzene (Surr)	93		70 - 130	02/11/22 08:30	02/11/22 13:40	1

Lab Sample ID: MB 880-19034/5-A

Matrix: Solid

Analysis Batch: 19027

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19034

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/22 11:07	02/11/22 20:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/22 11:07	02/11/22 20:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/22 11:07	02/11/22 20:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/10/22 11:07	02/11/22 20:49	1

Eurofins Midland

QC Sample Results

Client: NT Global
Project/Site: South Vacuum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-19034/5-A

Matrix: Solid

Analysis Batch: 19027

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19034

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/22 11:07	02/11/22 20:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/10/22 11:07	02/11/22 20:49	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130				02/10/22 11:07	02/11/22 20:49	1
1,4-Difluorobenzene (Surr)	83		70 - 130				02/10/22 11:07	02/11/22 20:49	1

Lab Sample ID: MB 880-19118/5-A

Matrix: Solid

Analysis Batch: 19027

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19118

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/11/22 10:00	02/12/22 10:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/22 10:00	02/12/22 10:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/22 10:00	02/12/22 10:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/11/22 10:00	02/12/22 10:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/22 10:00	02/12/22 10:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/11/22 10:00	02/12/22 10:55	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130				02/11/22 10:00	02/12/22 10:55	1
1,4-Difluorobenzene (Surr)	83		70 - 130				02/11/22 10:00	02/12/22 10:55	1

Lab Sample ID: LCS 880-19118/1-A

Matrix: Solid

Analysis Batch: 19027

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19118

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09016		mg/Kg		90	70 - 130
Toluene	0.100	0.08203		mg/Kg		82	70 - 130
Ethylbenzene	0.100	0.08050		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	0.200	0.1671		mg/Kg		84	70 - 130
o-Xylene	0.100	0.08849		mg/Kg		88	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	101		70 - 130				
1,4-Difluorobenzene (Surr)	100		70 - 130				

Lab Sample ID: LCSD 880-19118/2-A

Matrix: Solid

Analysis Batch: 19027

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19118

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09011		mg/Kg		90	70 - 130	0	35
Toluene	0.100	0.08250		mg/Kg		83	70 - 130	1	35
Ethylbenzene	0.100	0.07968		mg/Kg		80	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1648		mg/Kg		82	70 - 130	1	35
o-Xylene	0.100	0.08690		mg/Kg		87	70 - 130	2	35

Eurofins Midland

QC Sample Results

Client: NT Global
Project/Site: South Vaccum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-11166-A-1-B MS

Matrix: Solid

Analysis Batch: 19027

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 19118

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F2 F1	0.101	0.02091	F1	mg/Kg		21	70 - 130
Toluene	<0.00200	U F2 F1	0.101	0.02055	F1	mg/Kg		19	70 - 130
Ethylbenzene	<0.00200	U F2 F1	0.101	0.01902	F1	mg/Kg		19	70 - 130
m-Xylene & p-Xylene	<0.00400	U F2 F1	0.202	0.03680	F1	mg/Kg		18	70 - 130
o-Xylene	<0.00200	U F2 F1	0.101	0.02055	F1	mg/Kg		20	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-11166-A-1-C MSD

Matrix: Solid

Analysis Batch: 19027

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 19118

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F2 F1	0.101	0.05306	F2 F1	mg/Kg		53	70 - 130	87	35
Toluene	<0.00200	U F2 F1	0.101	0.04983	F2 F1	mg/Kg		48	70 - 130	83	35
Ethylbenzene	<0.00200	U F2 F1	0.101	0.04762	F2 F1	mg/Kg		47	70 - 130	86	35
m-Xylene & p-Xylene	<0.00400	U F2 F1	0.202	0.09613	F2 F1	mg/Kg		48	70 - 130	89	35
o-Xylene	<0.00200	U F2 F1	0.101	0.05012	F2 F1	mg/Kg		50	70 - 130	84	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-19037/1-A

Matrix: Solid

Analysis Batch: 19108

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19037

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/10/22 11:25	02/11/22 20:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/10/22 11:25	02/11/22 20:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/10/22 11:25	02/11/22 20:48	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	81		70 - 130	02/10/22 11:25	02/11/22 20:48	1			
o-Terphenyl	80		70 - 130	02/10/22 11:25	02/11/22 20:48	1			

Eurofins Midland

QC Sample Results

Client: NT Global
Project/Site: South Vaccum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-19037/2-A

Matrix: Solid

Analysis Batch: 19108

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19037

Analyte			Spike	LCS	LCS	Unit	D	%Rec.	%Rec.	Limits		
			Added	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10			1000	1007		mg/Kg		101		70 - 130		
Diesel Range Organics (Over C10-C28)			1000	932.9		mg/Kg		93		70 - 130		

Lab Sample ID: LCSD 880-19037/3-A

Matrix: Solid

Analysis Batch: 19108

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19037

			Spike	LCSD	LCSD				%Rec.	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	974.0		mg/Kg		97	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	875.8		mg/Kg		88	70 - 130	6	20
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	90		70 - 130								
o-Terphenyl	88		70 - 130								

Lab Sample ID: 880-11144-1 MS

Matrix: Solid

Analysis Batch: 19108

Client Sample ID: BH-1 (0-1')

Prep Type: Total/NA

Prep Batch: 19037

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1173		mg/Kg		115	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1015		mg/Kg		102	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	87		70 - 130								
o-Terphenyl	84		70 - 130								

Lab Sample ID: 880-11144-1 MSD

Matrix: Solid

Analysis Batch: 19108

Client Sample ID: BH-1 (0-1')

Prep Type: Total/NA

Prep Batch: 19037

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1109		mg/Kg		109	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	887.6		mg/Kg		89	70 - 130	13	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	78		70 - 130								

Eurofins Midland

QC Sample Results

Client: NT Global
Project/Site: South Vaccum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-11144-1 MSD

Matrix: Solid

Analysis Batch: 19108

Client Sample ID: BH-1 (0-1')

Prep Type: Total/NA

Prep Batch: 19037

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	75		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-19065/1-A

Matrix: Solid

Analysis Batch: 19436

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB								
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<5.00	U	5.00		mg/Kg			02/16/22 04:28	1	

Lab Sample ID: LCS 880-19065/2-A

Matrix: Solid

Analysis Batch: 19436

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte		Spike	LCS	LCS				%Rec.		
		Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride		250	259.4		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-19065/3-A

Matrix: Solid

Analysis Batch: 19436

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte		Spike	LCSD	LCSD				%Rec.		RPD
		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride		250	256.9		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 880-11144-8 MS

Matrix: Solid

Analysis Batch: 19436

Client Sample ID: BH-2 (1'-2')

Prep Type: Soluble

Analyte	Sample	Sample	Spike	MS	MS				%Rec.	
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	318		248	583.6		mg/Kg		107	90 - 110	

Lab Sample ID: 880-11144-8 MSD

Matrix: Solid

Analysis Batch: 19436

Client Sample ID: BH-2 (1'-2')

Prep Type: Soluble

Analyte	Sample	Sample	Spike	MSD	MSD				%Rec.	RPD
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	Limit
Chloride	318		248	585.7		mg/Kg		108	90 - 110	0 20

QC Association Summary

Client: NT Global
Project/Site: South Vaccum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

GC VOA

Prep Batch: 19021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11144-1	BH-1 (0'-1')	Total/NA	Solid	5035	
880-11144-2	BH-1 (1'-2')	Total/NA	Solid	5035	
880-11144-3	BH-1 (2'-3')	Total/NA	Solid	5035	
880-11144-4	BH-1 (3'-4')	Total/NA	Solid	5035	
880-11144-5	BH-1 (4'-5')	Total/NA	Solid	5035	
880-11144-6	BH-1 (5'-6')	Total/NA	Solid	5035	
880-11144-7	BH-2 (0'-1')	Total/NA	Solid	5035	
880-11144-8	BH-2 (1'-2')	Total/NA	Solid	5035	
880-11144-9	BH-2 (2'-3')	Total/NA	Solid	5035	
880-11144-10	BH-2 (3'-4')	Total/NA	Solid	5035	
MB 880-19021/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-19021/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-19021/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-11144-1 MS	BH-1 (0'-1')	Total/NA	Solid	5035	
880-11144-1 MSD	BH-1 (0'-1')	Total/NA	Solid	5035	

Prep Batch: 19022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-19022/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 19027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11144-11	BH-2 (4'-5')	Total/NA	Solid	8021B	19118
MB 880-19034/5-A	Method Blank	Total/NA	Solid	8021B	19034
MB 880-19118/5-A	Method Blank	Total/NA	Solid	8021B	19118
LCS 880-19118/1-A	Lab Control Sample	Total/NA	Solid	8021B	19118
LCSD 880-19118/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	19118
880-11166-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	19118
880-11166-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	19118

Prep Batch: 19034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-19034/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 19117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11144-1	BH-1 (0'-1')	Total/NA	Solid	8021B	19021
880-11144-2	BH-1 (1'-2')	Total/NA	Solid	8021B	19021
880-11144-3	BH-1 (2'-3')	Total/NA	Solid	8021B	19021
880-11144-4	BH-1 (3'-4')	Total/NA	Solid	8021B	19021
880-11144-5	BH-1 (4'-5')	Total/NA	Solid	8021B	19021
880-11144-6	BH-1 (5'-6')	Total/NA	Solid	8021B	19021
880-11144-7	BH-2 (0'-1')	Total/NA	Solid	8021B	19021
880-11144-8	BH-2 (1'-2')	Total/NA	Solid	8021B	19021
880-11144-9	BH-2 (2'-3')	Total/NA	Solid	8021B	19021
880-11144-10	BH-2 (3'-4')	Total/NA	Solid	8021B	19021
MB 880-19021/5-A	Method Blank	Total/NA	Solid	8021B	19021
MB 880-19022/5-A	Method Blank	Total/NA	Solid	8021B	19022
LCS 880-19021/1-A	Lab Control Sample	Total/NA	Solid	8021B	19021
LCSD 880-19021/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	19021
880-11144-1 MS	BH-1 (0'-1')	Total/NA	Solid	8021B	19021

Eurofins Midland

QC Association Summary

Client: NT Global
Project/Site: South Vacuum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

GC VOA (Continued)

Analysis Batch: 19117 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11144-1 MSD	BH-1 (0'-1')	Total/NA	Solid	8021B	19021

Prep Batch: 19118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11144-11	BH-2 (4'-5')	Total/NA	Solid	5035	
MB 880-19118/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-19118/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-19118/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-11166-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-11166-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 19290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11144-11	BH-2 (4'-5')	Total/NA	Solid	Total BTEX	

Analysis Batch: 19331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11144-1	BH-1 (0'-1')	Total/NA	Solid	Total BTEX	
880-11144-2	BH-1 (1'-2')	Total/NA	Solid	Total BTEX	
880-11144-3	BH-1 (2'-3')	Total/NA	Solid	Total BTEX	
880-11144-4	BH-1 (3'-4')	Total/NA	Solid	Total BTEX	
880-11144-5	BH-1 (4'-5')	Total/NA	Solid	Total BTEX	
880-11144-6	BH-1 (5'-6')	Total/NA	Solid	Total BTEX	
880-11144-7	BH-2 (0'-1')	Total/NA	Solid	Total BTEX	
880-11144-8	BH-2 (1'-2')	Total/NA	Solid	Total BTEX	
880-11144-9	BH-2 (2'-3')	Total/NA	Solid	Total BTEX	
880-11144-10	BH-2 (3'-4')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 19037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11144-1	BH-1 (0'-1')	Total/NA	Solid	8015NM Prep	
880-11144-2	BH-1 (1'-2')	Total/NA	Solid	8015NM Prep	
880-11144-3	BH-1 (2'-3')	Total/NA	Solid	8015NM Prep	
880-11144-4	BH-1 (3'-4')	Total/NA	Solid	8015NM Prep	
880-11144-5	BH-1 (4'-5')	Total/NA	Solid	8015NM Prep	
880-11144-6	BH-1 (5'-6')	Total/NA	Solid	8015NM Prep	
880-11144-7	BH-2 (0'-1')	Total/NA	Solid	8015NM Prep	
880-11144-8	BH-2 (1'-2')	Total/NA	Solid	8015NM Prep	
880-11144-9	BH-2 (2'-3')	Total/NA	Solid	8015NM Prep	
880-11144-10	BH-2 (3'-4')	Total/NA	Solid	8015NM Prep	
880-11144-11	BH-2 (4'-5')	Total/NA	Solid	8015NM Prep	
MB 880-19037/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-19037/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-19037/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-11144-1 MS	BH-1 (0'-1')	Total/NA	Solid	8015NM Prep	
880-11144-1 MSD	BH-1 (0'-1')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: NT Global
Project/Site: South Vaccum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

GC Semi VOA

Analysis Batch: 19108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11144-1	BH-1 (0'-1')	Total/NA	Solid	8015B NM	19037
880-11144-2	BH-1 (1'-2')	Total/NA	Solid	8015B NM	19037
880-11144-3	BH-1 (2'-3')	Total/NA	Solid	8015B NM	19037
880-11144-4	BH-1 (3'-4')	Total/NA	Solid	8015B NM	19037
880-11144-5	BH-1 (4'-5')	Total/NA	Solid	8015B NM	19037
880-11144-6	BH-1 (5'-6')	Total/NA	Solid	8015B NM	19037
880-11144-7	BH-2 (0'-1')	Total/NA	Solid	8015B NM	19037
880-11144-8	BH-2 (1'-2')	Total/NA	Solid	8015B NM	19037
880-11144-9	BH-2 (2'-3')	Total/NA	Solid	8015B NM	19037
880-11144-10	BH-2 (3'-4')	Total/NA	Solid	8015B NM	19037
880-11144-11	BH-2 (4'-5')	Total/NA	Solid	8015B NM	19037
MB 880-19037/1-A	Method Blank	Total/NA	Solid	8015B NM	19037
LCS 880-19037/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	19037
LCSD 880-19037/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	19037
880-11144-1 MS	BH-1 (0'-1')	Total/NA	Solid	8015B NM	19037
880-11144-1 MSD	BH-1 (0'-1')	Total/NA	Solid	8015B NM	19037

Analysis Batch: 19517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11144-1	BH-1 (0'-1')	Total/NA	Solid	8015 NM	
880-11144-2	BH-1 (1'-2')	Total/NA	Solid	8015 NM	
880-11144-3	BH-1 (2'-3')	Total/NA	Solid	8015 NM	
880-11144-4	BH-1 (3'-4')	Total/NA	Solid	8015 NM	
880-11144-5	BH-1 (4'-5')	Total/NA	Solid	8015 NM	
880-11144-6	BH-1 (5'-6')	Total/NA	Solid	8015 NM	
880-11144-7	BH-2 (0'-1')	Total/NA	Solid	8015 NM	
880-11144-8	BH-2 (1'-2')	Total/NA	Solid	8015 NM	
880-11144-9	BH-2 (2'-3')	Total/NA	Solid	8015 NM	
880-11144-10	BH-2 (3'-4')	Total/NA	Solid	8015 NM	
880-11144-11	BH-2 (4'-5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 19065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11144-1	BH-1 (0'-1')	Soluble	Solid	DI Leach	
880-11144-2	BH-1 (1'-2')	Soluble	Solid	DI Leach	
880-11144-3	BH-1 (2'-3')	Soluble	Solid	DI Leach	
880-11144-4	BH-1 (3'-4')	Soluble	Solid	DI Leach	
880-11144-5	BH-1 (4'-5')	Soluble	Solid	DI Leach	
880-11144-6	BH-1 (5'-6')	Soluble	Solid	DI Leach	
880-11144-7	BH-2 (0'-1')	Soluble	Solid	DI Leach	
880-11144-8	BH-2 (1'-2')	Soluble	Solid	DI Leach	
880-11144-9	BH-2 (2'-3')	Soluble	Solid	DI Leach	
880-11144-10	BH-2 (3'-4')	Soluble	Solid	DI Leach	
880-11144-11	BH-2 (4'-5')	Soluble	Solid	DI Leach	
MB 880-19065/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-19065/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-19065/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-11144-8 MS	BH-2 (1'-2')	Soluble	Solid	DI Leach	
880-11144-8 MSD	BH-2 (1'-2')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: NT Global
Project/Site: South Vacuum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

HPLC/IC

Analysis Batch: 19436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11144-1	BH-1 (0'-1')	Soluble	Solid	300.0	19065
880-11144-2	BH-1 (1'-2')	Soluble	Solid	300.0	19065
880-11144-3	BH-1 (2'-3')	Soluble	Solid	300.0	19065
880-11144-4	BH-1 (3'-4')	Soluble	Solid	300.0	19065
880-11144-5	BH-1 (4'-5')	Soluble	Solid	300.0	19065
880-11144-6	BH-1 (5'-6')	Soluble	Solid	300.0	19065
880-11144-7	BH-2 (0'-1')	Soluble	Solid	300.0	19065
880-11144-8	BH-2 (1'-2')	Soluble	Solid	300.0	19065
880-11144-9	BH-2 (2'-3')	Soluble	Solid	300.0	19065
880-11144-10	BH-2 (3'-4')	Soluble	Solid	300.0	19065
880-11144-11	BH-2 (4'-5')	Soluble	Solid	300.0	19065
MB 880-19065/1-A	Method Blank	Soluble	Solid	300.0	19065
LCS 880-19065/2-A	Lab Control Sample	Soluble	Solid	300.0	19065
LCSD 880-19065/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	19065
880-11144-8 MS	BH-2 (1'-2')	Soluble	Solid	300.0	19065
880-11144-8 MSD	BH-2 (1'-2')	Soluble	Solid	300.0	19065

Lab Chronicle

Client: NT Global
Project/Site: South Vacuum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

Client Sample ID: BH-1 (0-1')

Lab Sample ID: 880-11144-1

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	19021	02/11/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19117	02/12/22 01:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19331	02/14/22 09:32	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19517	02/15/22 20:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19037	02/10/22 11:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19108	02/11/22 21:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	19065	02/10/22 15:38	CH	XEN MID
Soluble	Analysis	300.0		1			19436	02/16/22 06:03	CH	XEN MID

Client Sample ID: BH-1 (1'-2')

Lab Sample ID: 880-11144-2

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	19021	02/11/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19117	02/12/22 02:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19331	02/14/22 09:32	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19517	02/15/22 20:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	19037	02/10/22 11:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19108	02/11/22 22:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	19065	02/10/22 15:38	CH	XEN MID
Soluble	Analysis	300.0		1			19436	02/16/22 06:15	CH	XEN MID

Client Sample ID: BH-1 (2'-3')

Lab Sample ID: 880-11144-3

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	19021	02/11/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19117	02/12/22 02:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19331	02/14/22 09:32	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19517	02/15/22 20:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19037	02/10/22 11:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19108	02/11/22 23:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	19065	02/10/22 15:38	CH	XEN MID
Soluble	Analysis	300.0		1			19436	02/16/22 06:51	CH	XEN MID

Client Sample ID: BH-1 (3'-4')

Lab Sample ID: 880-11144-4

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	19021	02/11/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19117	02/12/22 02:45	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19331	02/14/22 09:32	KL	XEN MID

Eurofins Midland

Lab Chronicle

Client: NT Global
Project/Site: South Vacuum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

Client Sample ID: BH-1 (3'-4')

Lab Sample ID: 880-11144-4

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			19517	02/15/22 20:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	19037	02/10/22 11:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19108	02/11/22 23:38	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	19065	02/10/22 15:38	CH	XEN MID
Soluble	Analysis	300.0		1			19436	02/16/22 07:02	CH	XEN MID

Client Sample ID: BH-1 (4'-5')

Lab Sample ID: 880-11144-5

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	19021	02/11/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19117	02/12/22 03:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19331	02/14/22 09:32	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19517	02/15/22 20:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	19037	02/10/22 11:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19108	02/11/22 23:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	19065	02/10/22 15:38	CH	XEN MID
Soluble	Analysis	300.0		1			19436	02/16/22 07:14	CH	XEN MID

Client Sample ID: BH-1 (5'-6')

Lab Sample ID: 880-11144-6

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	19021	02/11/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19117	02/12/22 03:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19331	02/14/22 09:32	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19517	02/15/22 20:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19037	02/10/22 11:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19108	02/12/22 00:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	19065	02/10/22 15:38	CH	XEN MID
Soluble	Analysis	300.0		1			19436	02/16/22 07:26	CH	XEN MID

Client Sample ID: BH-2 (0-1')

Lab Sample ID: 880-11144-7

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	19021	02/11/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19117	02/12/22 03:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19331	02/14/22 09:32	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19517	02/15/22 20:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	19037	02/10/22 11:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19108	02/12/22 00:41	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: NT Global
Project/Site: South Vaccum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

Client Sample ID: BH-2 (0-1')

Lab Sample ID: 880-11144-7

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	19065	02/10/22 15:38	CH	XEN MID
Soluble	Analysis	300.0		1			19436	02/16/22 07:38	CH	XEN MID

Client Sample ID: BH-2 (1'-2')

Lab Sample ID: 880-11144-8

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	19021	02/11/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19117	02/12/22 04:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19331	02/14/22 09:32	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19517	02/15/22 20:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	19037	02/10/22 11:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19108	02/12/22 01:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	19065	02/10/22 15:38	CH	XEN MID
Soluble	Analysis	300.0		1			19436	02/16/22 07:50	CH	XEN MID

Client Sample ID: BH-2 (2'-3')

Lab Sample ID: 880-11144-9

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	19021	02/11/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19117	02/12/22 04:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19331	02/14/22 09:32	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19517	02/15/22 20:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	19037	02/10/22 11:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19108	02/12/22 01:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	19065	02/10/22 15:38	CH	XEN MID
Soluble	Analysis	300.0		1			19436	02/16/22 08:25	CH	XEN MID

Client Sample ID: BH-2 (3'-4')

Lab Sample ID: 880-11144-10

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	19021	02/11/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19117	02/12/22 04:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19331	02/14/22 09:32	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19517	02/15/22 20:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19037	02/10/22 11:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19108	02/12/22 01:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	19065	02/10/22 15:38	CH	XEN MID
Soluble	Analysis	300.0		1			19436	02/16/22 08:37	CH	XEN MID

Eurofins Midland

Lab Chronicle

Client: NT Global
Project/Site: South Vaccum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

Client Sample ID: BH-2 (4'-5')
Date Collected: 02/08/22 00:00
Date Received: 02/09/22 16:23

Lab Sample ID: 880-11144-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	19118	02/11/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/12/22 17:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:59	MR	XEN MID
Total/NA	Analysis	8015 NM		1			19517	02/15/22 20:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	19037	02/10/22 11:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19108	02/12/22 02:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	19065	02/10/22 15:38	CH	XEN MID
Soluble	Analysis	300.0		1			19436	02/16/22 09:13	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: NT Global
Project/Site: South Vaccum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: NT Global
Project/Site: South Vaccum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Sample Summary

Client: NT Global
Project/Site: South Vaccum Unit 354

Job ID: 880-11144-1
SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-11144-1	BH-1 (0'-1')	Solid	02/08/22 00:00	02/09/22 16:23
880-11144-2	BH-1 (1'-2')	Solid	02/08/22 00:00	02/09/22 16:23
880-11144-3	BH-1 (2'-3')	Solid	02/08/22 00:00	02/09/22 16:23
880-11144-4	BH-1 (3'-4')	Solid	02/08/22 00:00	02/09/22 16:23
880-11144-5	BH-1 (4'-5')	Solid	02/08/22 00:00	02/09/22 16:23
880-11144-6	BH-1 (5'-6')	Solid	02/08/22 00:00	02/09/22 16:23
880-11144-7	BH-2 (0'-1')	Solid	02/08/22 00:00	02/09/22 16:23
880-11144-8	BH-2 (1'-2')	Solid	02/08/22 00:00	02/09/22 16:23
880-11144-9	BH-2 (2'-3')	Solid	02/08/22 00:00	02/09/22 16:23
880-11144-10	BH-2 (3'-4')	Solid	02/08/22 00:00	02/09/22 16:23
880-11144-11	BH-2 (4'-5')	Solid	02/08/22 00:00	02/09/22 16:23



Chain of Custody



880-11144 Chain of Custody

Page 1 of 4

Project Manager:	Gordon Banks	Bill to: (if different)	
Company Name:	NTG Environmental	Company Name:	
Address:	701 Tradewinds BLVD	Address:	
City, State ZIP:	Midland, TX 79706	City, State ZIP:	
Phone:	432-813-0263	Email:	NTG Midland

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Unperfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> PRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	South Vacuum Unit 354	Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes	
Project Number:	214802	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush													None: NO	DI Water: H ₂ O	
Project Location:	Lea Co, NM	Due Date:	Standard													Cool: Cool	MeOH: Me	
Sampler's Name:	NH/DW	TAT starts the day received by the lab, if received by 4:30pm														HCL: HC	HNO ₃ : HN	
PO #:																H ₂ SO ₄ : H ₂	NaOH: Na	
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Parameters										HOLD		
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	BTEX 8021B															
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	TPH 8015M (GRO + DRO + MRO)															
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	Chloride 300.0															
Total Containers:		Corrected Temperature:	10.2															
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont											Sample Comments
BH-1 (0-1')		2/8/2022	-	X	-	G	1	X	X	X								
BH-1 (1'-2')		2/8/2022	-	X	-	G	1	X	X	X								
BH-1 (2'-3')		2/8/2022	-	X	-	G	1	X	X	X								
BH-1 (3'-4')		2/8/2022	-	X	-	G	1	X	X	X								
BH-1 (4'-5')		2/8/2022	-	X	-	G	1	X	X	X								
BH-1 (5'-6')		2/8/2022	-	X	-	G	1	X	X	X								
BH-2 (0-1')		2/8/2022	-	X	-	G	1	X	X	X								
BH-2 (1'-2')		2/8/2022	-	X	-	G	1	X	X	X								
BH-2 (2'-3')		2/8/2022	-	X	-	G	1	X	X	X								
BH-2 (3'-4')		2/8/2022	-	X	-	G	1	X	X	X								

Additional Comments:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>Nick Eber</i>	<i>[Signature]</i>	2/8/22 10:23	2		
3			4		
5			6		



Chain of Custody

Work Order No: 11144

Page 2 of 2

Project Manager:	Gordon Banks	Bill to: (if different)	
Company Name:	NTG Environmental	Company Name:	
Address:	701 Tradewinds BLVD	Address:	
City, State ZIP:	Midland, TX 79706	City, State ZIP:	
Phone:	432-813-0283	Email:	NTG.Midland

Work Order Comments									
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> upfund <input type="checkbox"/> State of Project: Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/> Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:									

ANALYSIS REQUEST				Preservative Codes			
Project Name:	South Vacuum Unit 354	Turn Around					
Project Number:	214802	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush				
Project Location	Lea Co. NM	Due Date:	Standard				
Sampler's Name:	NH/DW	TAT starts the day received by the lab, if received by 4:30pm					
PO #:							
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	TPE				
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	1				
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	6.2				
Total Containers:		Corrected Temperature:	6.3				
Parameters							
BTEX 8021B							
H 8015M (GRO + DRO + MRO)							
Chloride 300.0							
HOLD							
None: NO				DI Water:	H ₂ O		
Cool: Cool					MeOH: Me		
HCL: HC					HNO ₃ : HN		
H ₂ SO ₄ : H ₂					NaOH: Na		
H ₃ PO ₄ : HP							
NaHSO ₄ : NABIS							
Na ₂ S ₂ O ₃ : NaSO ₃							
Zn Acetate+NaOH: Zn							
NaOH+Ascorbic Acid: SASC							

[illegible]

Additional Comments:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$86.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>Nura</i>	<i>[Signature]</i>	2/9/22 16:23	2		
3			4		
5			6		

Printed Date: 02/07/2024 04:00:00 PM

Login Sample Receipt Checklist

Client: NT Global

Job Number: 880-11144-1

SDG Number: Lea Co, NM

Login Number: 11144

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	received a day after it was sampled
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	N/A	No time on COC, logged in per container labels.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 119276

CONDITIONS

Operator: Catena Resources Operating, LLC 1001 Fannin Street Houston, TX 77002	OGRID: 328449
	Action Number: 119276
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. Adequate delineation has not been achieved with borings BH-1 and BH-2. Please ensure release area is sufficiently delineated and remediated per 19.15.29 NMAC criteria during implementation of Remediation Work Plan.	7/5/2022