

Incident ID	nAPP2221331654
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?	≥55' (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 <b>not</b> 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.

## Oil Conservation Division

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

Printed Name: Dale Woodall Title: Env. Professional  
Signature: *Dale Woodall* Date: 1/25/2023  
email: dale.woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

Received by: Jocelyn Harimon Date: 01/25/2023

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## Remediation Plan

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

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

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

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

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Printed Name: Dale Woodall Title: Env. Professional  
Signature: Dale Woodall Date: 1/25/2023  
email: dale.woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

Received by: Jocelyn Harimon Date: 01/25/2023

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

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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## Closure

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

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

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

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

Printed Name: Dale Woodall Title: Env. Professional  
Signature: Dale Woodall Date: 1/25/2023  
email: dale.woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

Received by: Jocelyn Harimon Date: 01/25/2023

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

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_



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



**NTG**  
ENVIRONMENTAL

January 23, 2023

**New Mexico Oil Conservation Division  
District 1  
1625 N. French Dr  
Hobbs, New Mexico 88240**

**Re: Site Characterization and Closure Report  
Ichabod 7 Fed 1H Battery  
Devon Energy Production Company  
Incident ID: nAPP2221331654,  
P-07-26S-34E, Lea County, New Mexico**

To Whom it May Concern:

## **1. Introduction**

New Tech Global Environmental, LLC (NTGE), on behalf of Devon Energy Production Company (DEVON), submits this Site Closure Report to the New Mexico Oil Conservation Division (NMOCD) District 2 Office. This report provides documentation of delineation, sampling, remedial activities, and analyses conducted in the affected area at the Ichabod 7 Fed 1H Battery release (Site). The Site is in Unit Letter P, Section 07, of Township 26 South and Range 34 East in Lea County, New Mexico. The GPS coordinates for the release site are 32.051237° N latitude and -103.501509° W longitude. Figures 1 and 2 depict the Site Location. The release area and sample locations are depicted on Figures 3 and 4.

## **2. Background**

DEVON submitted a C-141, Release Notification and Corrective Action, form dated August 15, 2022, to the NMOCD. The C-141 states the release was due to "equipment failure," and occurred on July 29, 2022. According to the initial C-141 approximately 17 barrels (bbls) of produced water was released, of which 15 bbls were recovered. See initial C-141 attached above.

The release falls under the jurisdiction of the NMOCD District 1 Office in Hobbs, New Mexico. The NMOCD assigned the release with Incident Number nAPP2221331654. The Release Notification and Corrective Action, Site Assessment/Characterization, and Closure portions of Form C-141 are attached to the front of this report.

## **3. Groundwater and Site Characterization**

Based on a review of the New Mexico Office of State Engineers and USGS databases, there is one known water sources within a ½-mile radius of the Site, and the site is located within a low karst area. The nearest identified ground water determination bore is located 0.48 miles southwest of the Site in Sec 18 T26S R34S. The bore was drilled in 2022 with no reported depth to groundwater above fifty-five (55) feet below ground surface (ft bgs). A copy of the site characterization information and the associated USGS summary report is attached.

**General Site Characterization and Groundwater:**

Site Characterization	Average Groundwater Depth (ft)
No Receptors Found	>55 bgs

**Table 3.1 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12 & 19.15.29.13 )**

Regulatory Standard	Chloride	TPH (GRO+DRO+MR)	TPH (GRO+MRO)	BTEX	Benzene
19.15.29.13 Restoration, Reclamation and Re-Vegetation (Impacted Area 0-4 Feet)	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
19.15.29.12 NMAC Table I Closure Criteria for Soils Impacted by a Release	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
Notes: --- = not defined					

## 4. Initial Soil Delineation Assessment Summary and Findings

On November 11, 2022, New Tech Global Environmental, LLC (NTGE) conducted site assessment activities to assess the extent of impacts at the Site. A total of four sample points (i.e., S-1 through S-4), as well as seven horizontal sample points (i.e., H-1 through H-7) were installed within the release area to characterize the impacts. Soil samples were collected in 0.5 ft intervals from depths ranging from 0 – 4.5 ft below ground surface (bgs) with a geotechnical hand auger. Sample locations from NTGE's assessment activities are shown on Figure 3. Analytical results from NTGE's assessment (attached), indicated that concentrations within the release extent exceeded the NMOCD's regulatory thresholds for chlorides in the areas of H-2 and S-1 through S-4. Analytical results of the initial assessment samples are included in Table 1.

## 5. Excavation, Waste Management and Confirmation Sampling

Devon proceeded with remedial action activities at the Site to include the excavation and disposal of impacted soils above the regulatory limits. The release area was excavated to

depths of 4.5 ft through 8 ft bgs within the release area. The excavation area is illustrated on Figure 4.

A total of eighteen (18) confirmation samples were collected from the excavation base (i.e., CS-1 through CS-18) and fifteen (15) confirmation samples were collected from the excavation sidewalls (i.e., SW-1 through SW-15) on November 2, 2022, to ensure impacted soils were successfully removed. Analytical results indicated that eight (8) of the sidewall samples exceeded the NMOCD's regulatory thresholds for chlorides and the areas would require further excavation.

After further excavation the area was re-sampled, and ten (10) additional confirmation samples collected from the excavation sidewalls (i.e., SW-16 through SW-25) on November 13, 2022, to ensure impacted soils were successfully removed. Analytical results indicated that six (6) of the sidewall samples exceeded the NMOCD's regulatory thresholds for chlorides and the areas would require further excavation.

After further excavation the area was re-sampled on January 9, 2023, and seven (7) additional confirmation samples collected from the excavation sidewalls (i.e., SW-26 through SW-32) to ensure impacted soils were successfully removed. Analytical results indicated that no samples exceeded the NMOCD's regulatory thresholds, and the areas would require no further excavation.

The confirmation samples were collected every 200 square feet and submitted to the lab under proper chain of custody protocol for analysis. The samples were analyzed for the following:

- TPH (EPA method 8015 modified),
- BTEX (EPA Method 8021B), and
- Chloride (method SM4500Cl-B).

Analytical results indicated the extent of impacted soils had been removed and no further excavation was required. The excavation was backfilled and returned to near-natural grade. The final excavation extent and confirmation sample locations are shown on Figure 4. Analytical results of the confirmation samples are included in Table 2.

## 6. nAPP2221331654 Closure Request

Based on the assessment and subsequent remedial action activities, the Site is compliant with NMOCD's regulatory limits, and no further actions are required at the site. A copy of the final C-141 is attached, and Devon formally requests a no further action designation for the Site. If you have any questions regarding this report or need additional information, please contact us at 432-701-2159.

Sincerely,  
**NTG Environmental**





Ethan Sessums  
Project Manager

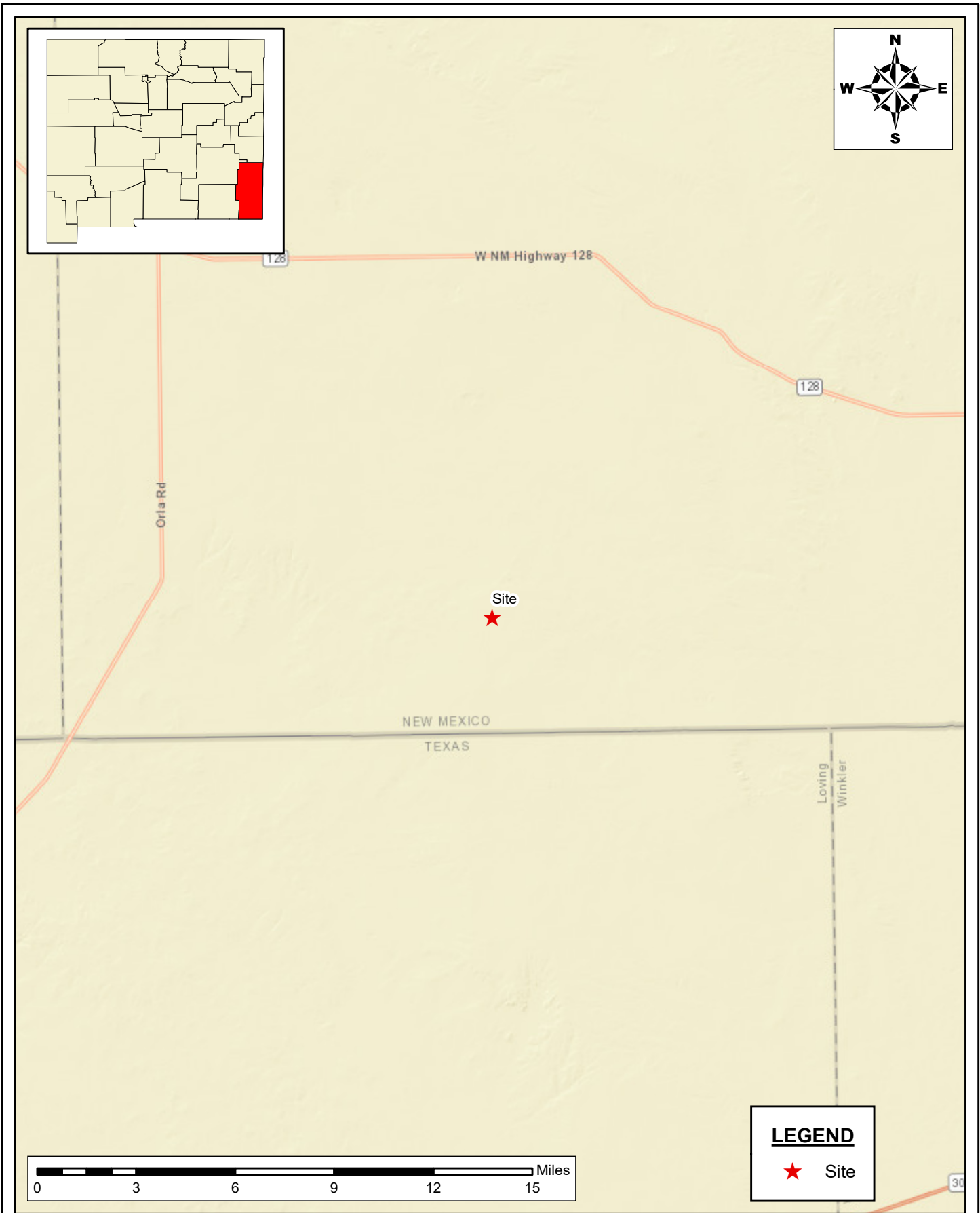
Encl. Figure 1 – Site Location Map  
Figure 2 – Area Map  
Figure 3 – Assessment Sample Location Map  
Figure 4 – Confirmation Sampling Map  
Table 1 – Summary of Soil Analytical Data – Confirmation Samples  
Table 2 – Summary of Soil Analytical Data – Delineation Samples  
Attachment A – Site Characterization Documentation  
Attachment B – Photographic Log  
Attachment C – Confirmation Sampling Notifications  
Attachment D – Laboratory Analytical Reports and Chain-of-Custody Documentation

# FIGURES

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**AERIAL MAP  
SITE CLOSURE REPORT  
ICHABOD 7 FED 1H BATTERY  
DEVON ENERGY PRODUCTION COMPANY  
LEA COUNTY, NEW MEXICO**

SCALE: As Shown    Date: 9/30/2022    PROJECT #: 226079



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

**NOTES:**

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

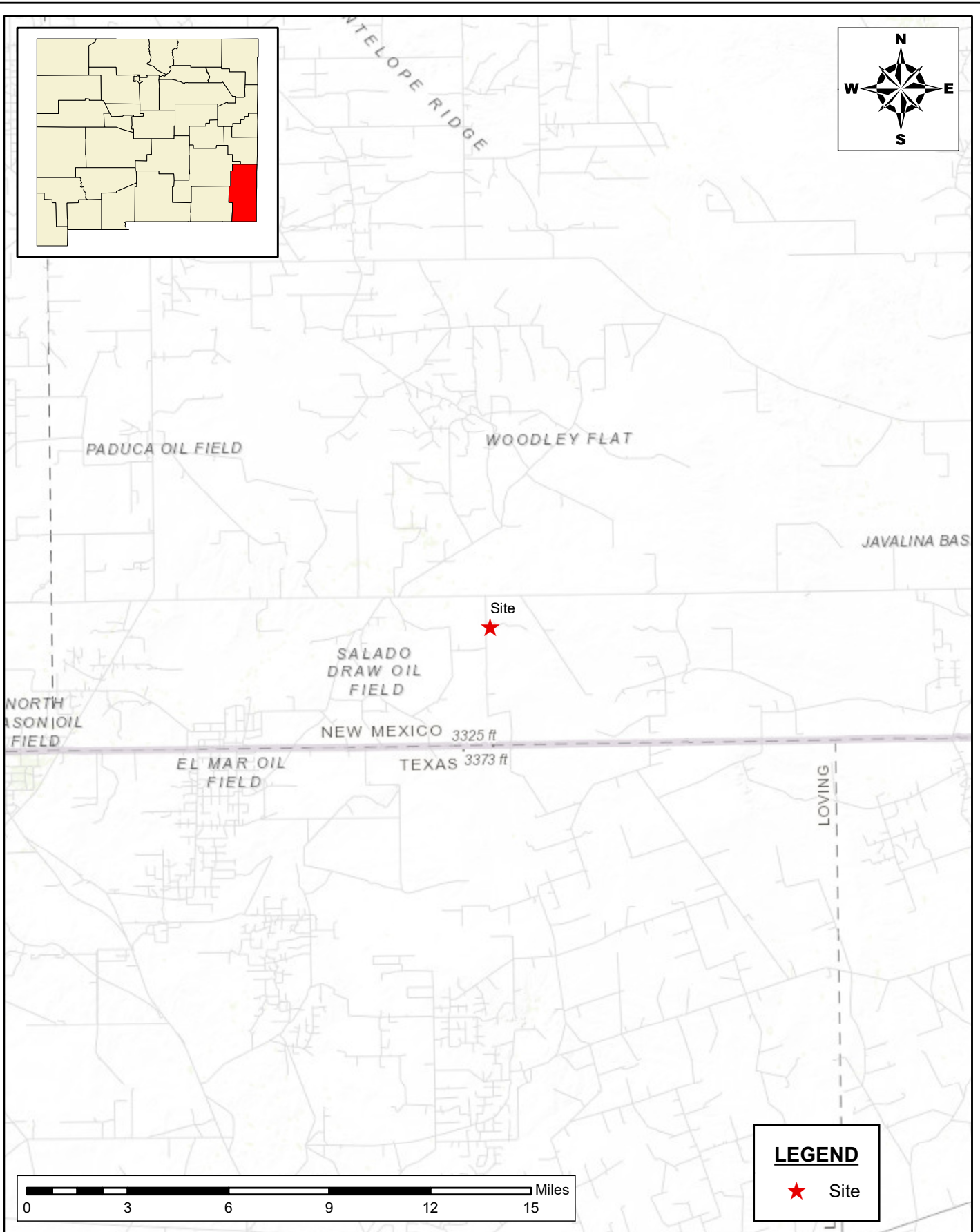
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**FIGURE 1**

SHEET NUMBER:

**1 of 1**

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**TOPOGRAPHIC MAP**  
**SITE CLOSURE REPORT**  
**ICHABOD 7 FED 1H BATTERY**  
**DEVON ENERGY PRODUCTION COMPANY**  
**LEA COUNTY, NEW MEXICO**

SCALE: As Shown    Date: 9/30/2022    PROJECT #: 226079



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 911 Regional Park Drive  
 Houston, Texas 77060  
 T - 281.872.9300  
 F - 281.872.4521  
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1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

DRAWING NUMBER:

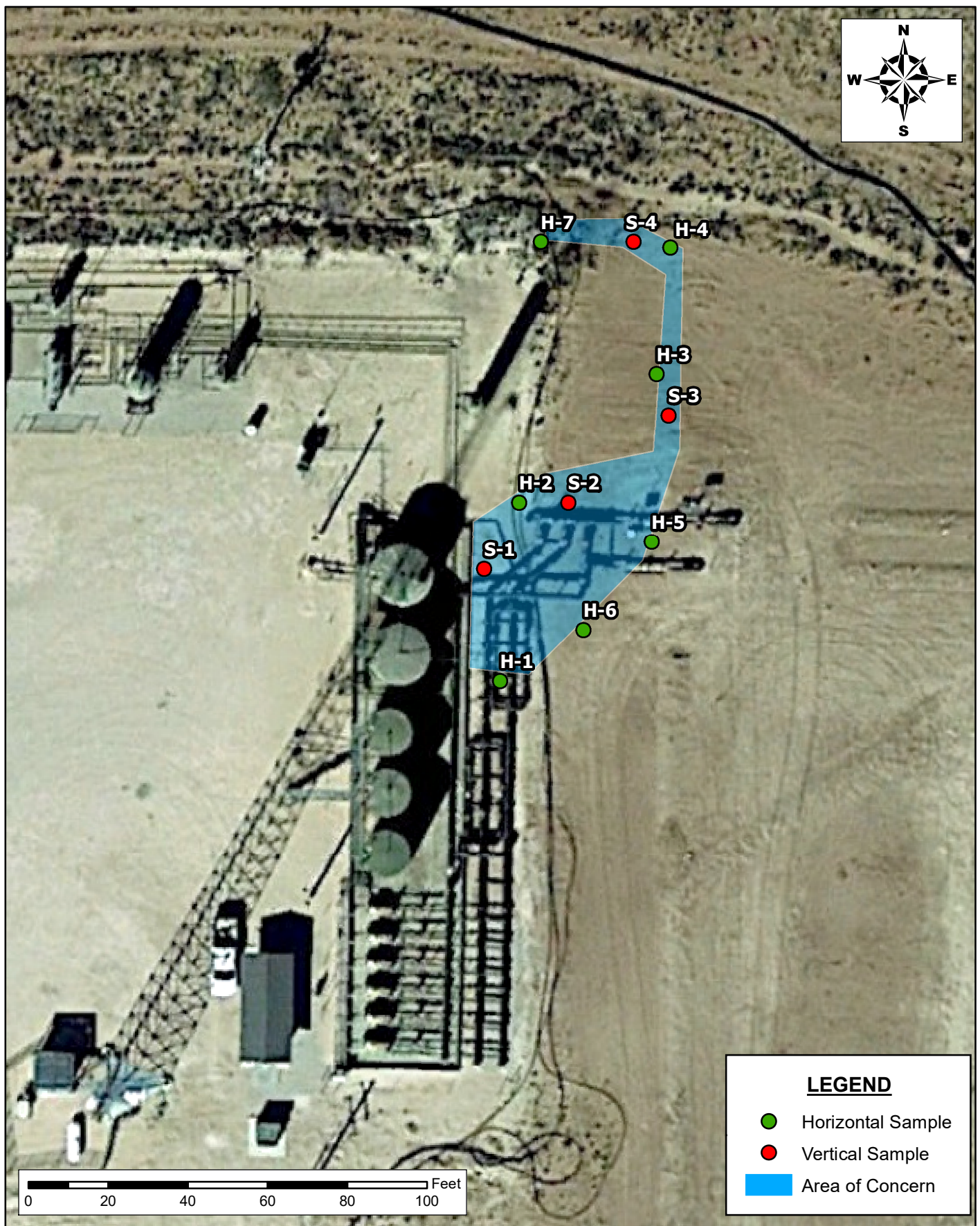
**FIGURE 2**

SHEET NUMBER:

**1 of 1**



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**SITE LOCATION MAP  
CLOSURE REPORT**  
ICHABOD 7 FED 1H BATTERY  
DEVON ENERGY PRODUCTION COMPANY  
LEA COUNTY, NEW MEXICO

SCALE: As Shown

Date: 1/24/2023

PROJECT #: 226079



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

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1. Base Image: ESRI Maps & Data 2013
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DRAWING NUMBER:

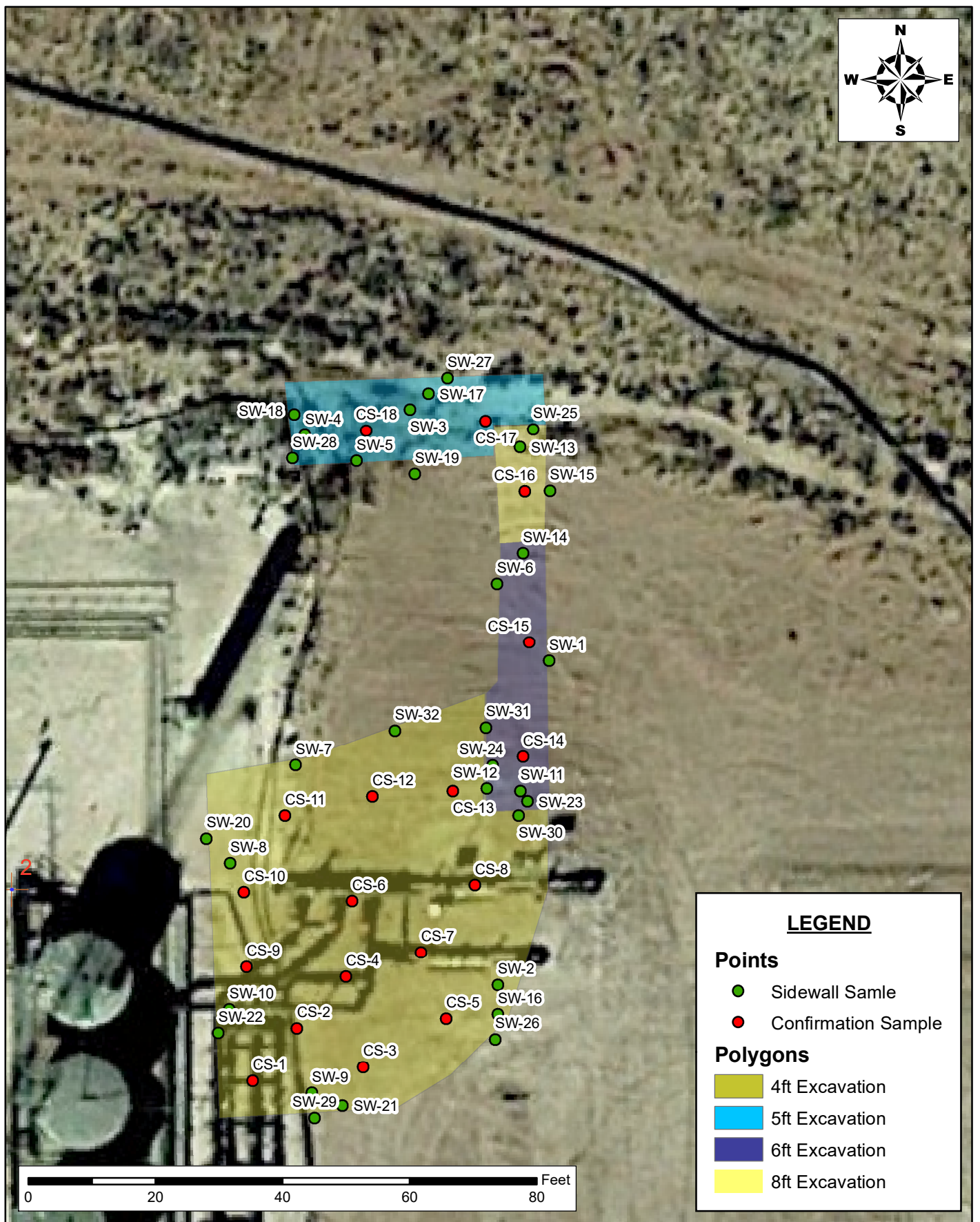
**FIGURE 3**

SHEET NUMBER:

**1 of 1**



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**SITE CONFIRMATION MAP  
CLOSURE REPORT**  
 ICHABOD 7 FED 1H BATTERY  
 DEVON ENERGY PRODUCTION COMPANY  
 LEA COUNTY, NEW MEXICO

SCALE: As Shown    Date: 1/23/2023    PROJECT #: 226079



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 F - 281.872.4521  
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**NOTES:**

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

DRAWING NUMBER:

**FIGURE 4**

SHEET NUMBER:

**1 of 1**

# TABLES


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**Table 1**  
**Summary of Soil Analytical Data - Delineation Samples**  
**Ichabod 7 Fed 1H Battery**  
**Devon Energy Production Company**  
**Lea County, New Mexico**

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6- C-10)	DRO (C10- C28)	GRO + DRO	MRO (C28- C35)	Total GRO/DRO/MRO	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
			Table I Closure Criteria for Soil <50 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg
NTGE Initial Assessment Samples													
H-1	10/3/2022	(0-0.5')	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	427
H-2	10/3/2022	(0-0.5')	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	5490
H-3	10/3/2022	(0-0.5')	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	67
H-4	10/3/2022	(0-0.5')	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	73.9
H-5	10/3/2022	(0-0.5')	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	245
H-6	10/3/2022	(0-0.5')	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	35.7
H-7	10/3/2022	(0-0.5')	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	30.8
S-1	10/3/2022	(4-4.5')	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	3470
S-2	10/3/2022	(0-1')	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	1400
S-3	10/3/2022	(1-1.5')	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	1670
S-4	10/3/2022	(4-4.5')	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	1350

## Notes:

1. Values reported in mg/kg
  2. < = Value Less Than Reporting Limit (RL)
  3. Bold indicates Analyte Detected
  4. BTEX analyses by EPA Method SW 8021B
- 
 SP-1 Sample Point Excavated

5. TPH analyses by EPA Method SW 8015 Mod.
6. GRO/DRO/MRO - Gasoline/Diesel/Motor Oil

7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.

8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (Surface to 4 Feet Below Grade).

**Table 2**  
**Summary of Soil Analytical Data - Confirmation Samples Ichabod 7 Fed 1H Battery**  
**Devon Energy Production Company**  
**Lea County, New Mexico**

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6- C-10)	DRO (C10-C28)	GRO + DRO	MRO (C28- C35)	Total GRO/DRO/MRO		
			Table I Closure Criteria for Soil 51-100 feet Depth to Groundwater 19.15.29 NMAC											
			10 mg/kg	---	---	---	50 mg/kg	---	---	1000mg/kg	---	2500 mg/kg		10,000 mg/kg
Criteria for 0-4'			10 mg/kg				50 mg/kg					100 mg/kg	600 mg/kg	
NTGE Confirmation Samples														
CS-1	11/2/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	96	
CS-2	11/2/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	384	
CS-3	11/2/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	386	
CS-4	11/2/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	1060	
CS-5	11/2/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	400	
CS-6	11/2/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	96	
CS-7	11/2/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	48	
CS-8	11/2/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	224	
CS-9	11/2/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	3920	
CS-10	11/2/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	1250	
CS-11	11/2/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	3760	
CS-12	11/2/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	4080	
CS-13	11/2/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	608	
CS-14	11/2/2022	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	128	
CS-15	11/2/2022	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	144	
CS-16	11/2/2022	8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	208	
CS-17	11/2/2022	5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	64	
CS-18	11/2/2022	5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	112	
SW-1	11/2/2022	0-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	48	
SW-2	11/2/2022	0-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	3160	
SW-3	11/2/2022	0-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	1890	
SW-4	11/2/2022	0-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	960	
SW-5	11/2/2022	0-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	2840	
SW-6	11/2/2022	0-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	48	
SW-7	11/2/2022	0-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	160	
SW-8	11/2/2022	0-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	1150	
SW-9	11/2/2022	0-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	768	
SW-10	11/2/2022	0-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	1410	
SW-11	11/2/2022	0-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	992	
SW-12	11/2/2022	0-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	4200	
SW-13	11/2/2022	0-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	896	
SW-14	11/2/2022	0-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	192	
SW-15	11/2/2022	0-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	144	
SW-16	12/13/2022	0-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	1170	
SW-17	12/13/2022	0-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	976	
SW-18	12/13/2022	0-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	1330	
SW-19	12/13/2022	0-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	464	
SW-20	12/13/2022	0-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	448	
SW-21	12/13/2022	0-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	1730	
SW-22	12/13/2022	0-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	128	
SW-23	12/13/2022	0-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	1010	
SW-24	12/13/2022	0-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	1690	
SW-25	12/13/2022	0-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0	112	
SW-26	1/9/2023	0-4.5'	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<50.0	185	
SW-27	1/9/2023	0-4.5'	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<50.0	59.9	
SW-28	1/9/2023	0-4.5'	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<50.0	151	
SW-29	1/9/2023	0-4.5'	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<50.0	37.7	
SW-30	1/9/2023	0-4.5'	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<50.0	<16.0	
SW-31	1/9/2023	0-4.5'	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<50.0	167	
SW-32	1/9/2023	0-4.5'	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<50.0	<16.0	

## Notes:

1. Values reported in mg/kg
2. < = Value Less Than Reporting Limit (RL)
3. Bold indicates Analyte Detected
4. BTEX analyses by EPA Method SW 8021B

5. TPH analyses by EPA Method SW 8015 Mod.
6. GRO/DRO/MRO - Gasoline/Diesel/Motor Oil

7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.

8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (Surface to 4 Feet Below Grade).

SP-1 | Sample Point Excavated

# ATTACHMENT A: SITE CHARACTERIZATION DOCUMENTATION

---

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

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

Nature and Volume of Release

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

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

Cause of Release

State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

**Initial Response**

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

<input type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: _____	Title: _____
Signature: <u>Kendra Ruiz</u>	Date: _____
email: _____	Telephone: _____
<b><u>OCD Only</u></b>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>08/15/2022</u>

Incident ID	nAPP2221331654
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?	≥55' (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 <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

### **Characterization Report Checklist:** *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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



State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	nAPP2221331654
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: Dale Woodall Title: Env. Professional  
Signature: *Dale Woodall* Date: 1/25/2023  
email: dale.woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	nAPP2221331654
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: Dale Woodall Title: Env. Professional  
Signature: Dale Woodall Date: 1/25/2023  
email: dale.woodall@dnv.com Telephone: 575-748-1838

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	nAPP2221331654
District RP	
Facility ID	
Application ID	

## Closure

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

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

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

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

Printed Name: Dale Woodall Title: Env. Professional  
Signature: Dale Woodall Date: 1/25/2023  
email: dale.woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Closure Approved by: Jennifer Nobui Date: 02/14/2023  
Printed Name: Jennifer Nobui Title: Environmental Specialist A

NAPP2221331654

<b>Spills In Lined Containment</b>	
Measurements Of Standing Fluid	
Length(Ft)	53
Width(Ft)	30
Depth(in.)	1
Total Capacity without tank displacements (bbls)	23.60
No. of 500 bbl Tanks In Standing Fluid	2
No. of Other Tanks In Standing Fluid	1
OD Of Other Tanks In Standing Fluid(feet)	15
Total Volume of standing fluid accounting for tank displacement.	15.38

<b>Spill Volume(Bbls) Calculator</b>		
Inputs in <i>blue</i> , Outputs in <i>red</i>		
Contaminated Soil measurement		
Length(Ft)	Width(Ft)	Depth(Ft)
<u>200</u>	<u>2.000</u>	<u>0.042</u>
Cubic Feet of Soil Impacted		<u>16.800</u>
Barrels of Soil Impacted		<u>2.99</u>
Soil Type		Clay
Barrels of Oil Assuming 100% Saturation		<u>0.30</u>
Saturation	Damp no fluid when squeezed	
Estimated Barrels of Oil Released		0.03
Free Standing Fluid Only		
Length(Ft)	Width(Ft)	Depth(Ft)
<u>10</u>	<u>2.000</u>	<u>0.500</u>
Standing fluid		<u>1.779</u>
<b>Total fluids spilled</b>		<b>2.078</b>

**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 133873

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 133873
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	8/15/2022



well mapper

Radius and Lateral Distance

**Legend**

-  .5 Mile Radius
-  0.48 Miles
-  POD C-4626
-  Site



2000 ft







National Water Information System: Mapper

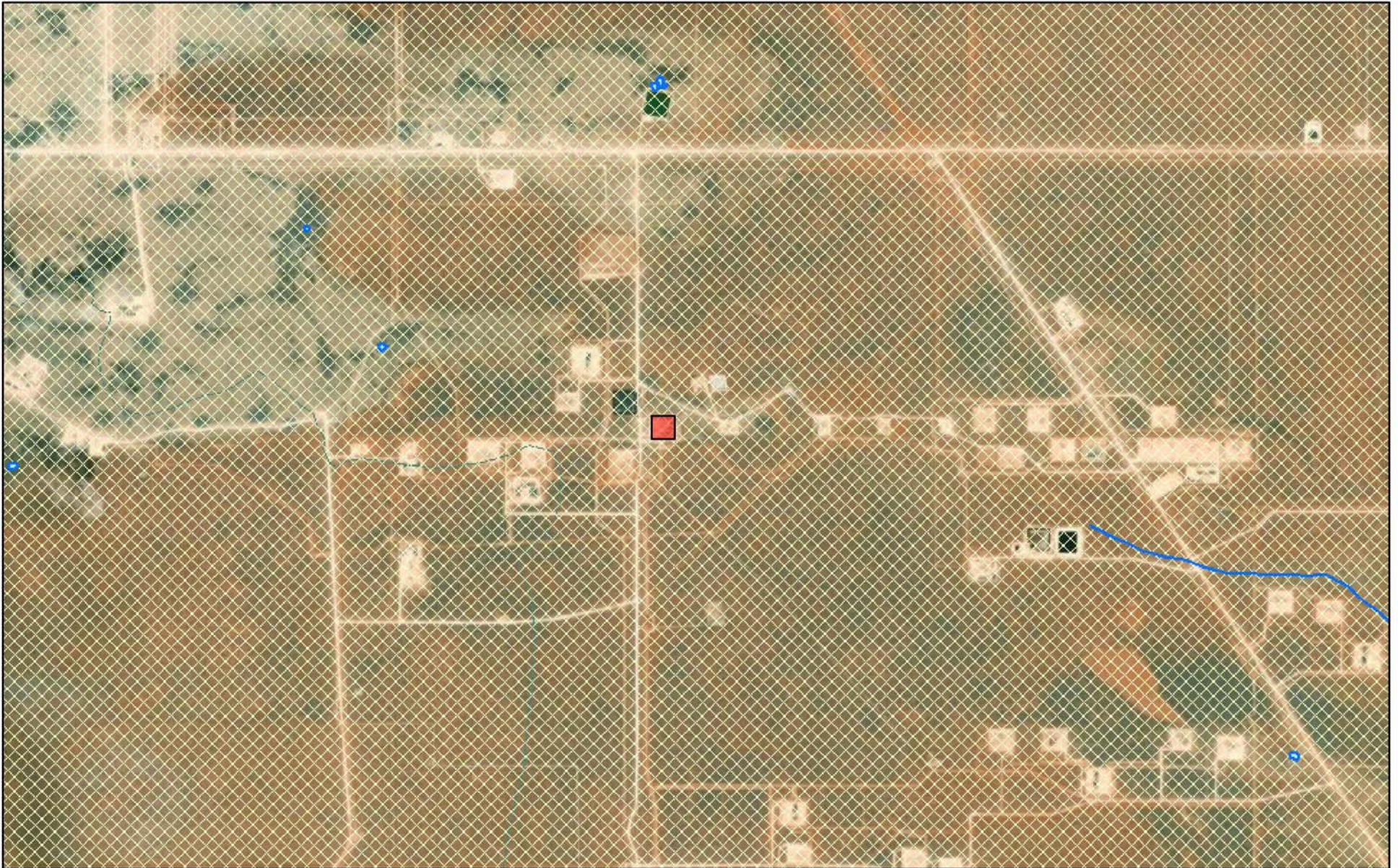
[Help](#)



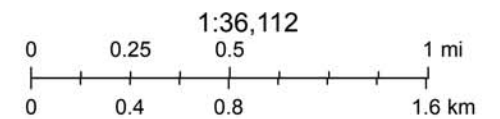
Site Information



# New Mexico NFHL Data



September 15, 2022



FEMA, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Source: Esri, Maxar, Earthstar Geographics, and the GIS

nmflood.org is made possible through a collaboration with NMDHSEM, This is a non-regulatory product for informational use only. Please consult your local floodplain administrator for further information.





# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). C-4626			
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL) 575-748-1838			
	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy				CITY Artesia		STATE NM	
					ZIP 88210			
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 2	SECONDS 51.06	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE 103	30	37.08	W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE NE NW Sec.18 T26S R34S NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 6/9/2022		DRILLING ENDED 6/9/2022		DEPTH OF COMPLETED WELL (FT) Temporary Well		BORE HOLE DEPTH (FT) ±55	
					DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A		
	DATE STATIC MEASURED 6/13/2022							
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger						CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>	
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0	55	±6.5	Boring-HSA	--	--	--	--
	3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL		AMOUNT (cubic feet)	METHOD OF PLACEMENT

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)


FILE NO. <u>C-4626-POD 1</u>	POD NO. <u>1</u>	TRN NO. <u>726171</u>
LOCATION <u>26.34.18.421</u>	WELL TAG ID NO. <u>                    </u>	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	4	4	Sand, Fine-grained, poorly graded, 2.5 YR 3/6, Dark Red	Y ✓ N	
	4	9	5	Caliche, with Fine-grained sand, 7.5 YR 7/4, Pink	Y ✓ N	
	9	14	5	Caliche, well consolidated, 7.5 YR 7/4, Pink	Y ✓ N	
	14	39	25	Sand, Fine-grained, poorly graded, with Caliche, 7.5 YR 7/6, Reddish Yellow	Y ✓ N	
	39	55	16	Sand, Fine-grained, poorly graded, with Caliche, 7.5 YR 7.5/6, Brown	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
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					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
		MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface. 28 Fighting Okra 18 CTB 4 <div style="text-align: right;">USE DIT JUN 16 2022 PM3:10</div>
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
 SIGNATURE OF DRILLER / PRINT SIGNEE NAME	Jackie D. Atkins DATE	6/16/2022

FOR OSE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 01/28/2022)

FILE NO. C-41626-POD 1	POD NO. 1	TRN NO. 726171
LOCATION 26.34.18.421	WELL TAG ID NO.	PAGE 2 OF 2



Mike A. Hamman, P.E.  
State Engineer



Roswell Office  
1900 WEST SECOND STREET  
ROSWELL, NM 88201

**STATE OF NEW MEXICO  
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 726171  
File Nbr: C 04626  
Well File Nbr: C 04626 POD1

Jun. 16, 2022

DALE WOODALL  
DEVON ENERGY  
6488 7 RIVERS HWY  
ARTESIA, NM 88210

Greetings:

The above numbered permit was issued in your name on 05/24/2022.

The Well Record was received in this office on 06/16/2022, stating that it had been completed on 06/09/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 05/24/2023.

If you have any questions, please feel free to contact us.

Sincerely,

A handwritten signature in blue ink, appearing to read "Maret Amaral".

Maret Amaral  
(575) 622-6521

drywell



2904 W 2nd St.  
Roswell, NM 88201  
voice: 575.624.2420  
fax: 575.624.2421  
www.atkinseng.com

June 8, 2022

DII-NMOSE  
1900 W 2<sup>nd</sup> Street  
Roswell, NM 88201

*Hand Delivered to the DII Office of the State Engineer*

Re: Well Record C-4626 Pod1at Fighting Okra 18 CTB 4

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-4626 Pod1.

If you have any questions, please contact me at 575.499.9244 or [lucas@atkinseng.com](mailto:lucas@atkinseng.com).

Sincerely,

A handwritten signature in black ink, appearing to read "Lucas Middleton".

Lucas Middleton

Enclosures: as noted above

OSE DII JUN 16 2022 PM3:09

## **ATTACHMENT B: PHOTOGRAPHIC LOG**

---

## PHOTOGRAPHIC LOG

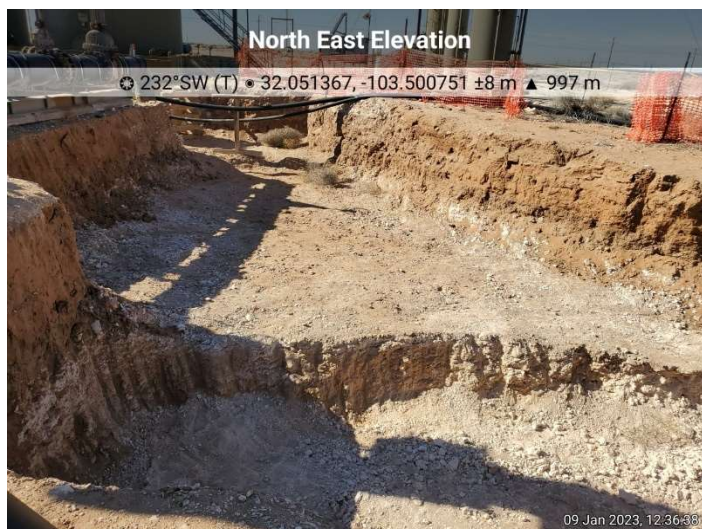
### Devon Energy Production Company

**Photograph No. 1**

**Facility:** Ichabod 7 Fed 1H Battery

**County:** Lea County, New Mexico

**Description:**  
View of excavated area.

**Photograph No. 2**

**Facility:** Ichabod 7 Fed 1H Battery

**County:** Lea County, New Mexico

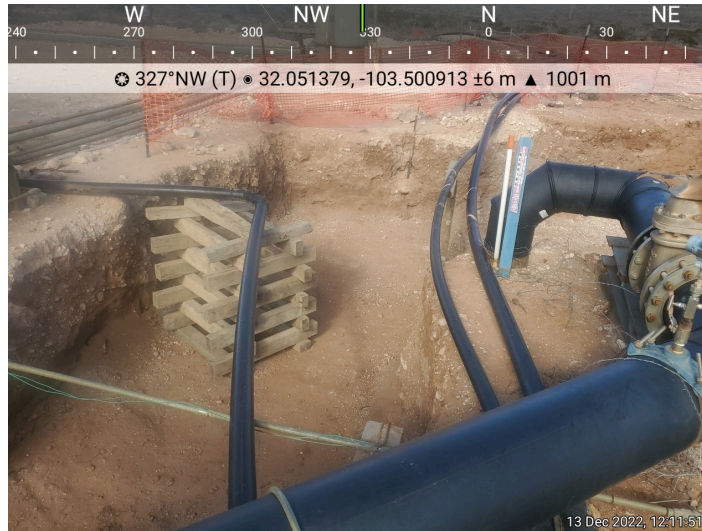
**Description:**  
View of excavated area.

**Photograph No. 3**

**Facility:** Ichabod 7 Fed 1H Battery

**County:** Lea County, New Mexico

**Description:**  
View of excavated area.





# PHOTOGRAPHIC LOG

## Devon Energy Production Company

### Photograph No. 4

**Facility:** Ichabod 7 Fed 1H Battery

**County:** Lea County, New Mexico

**Description:**  
Final Excavation.

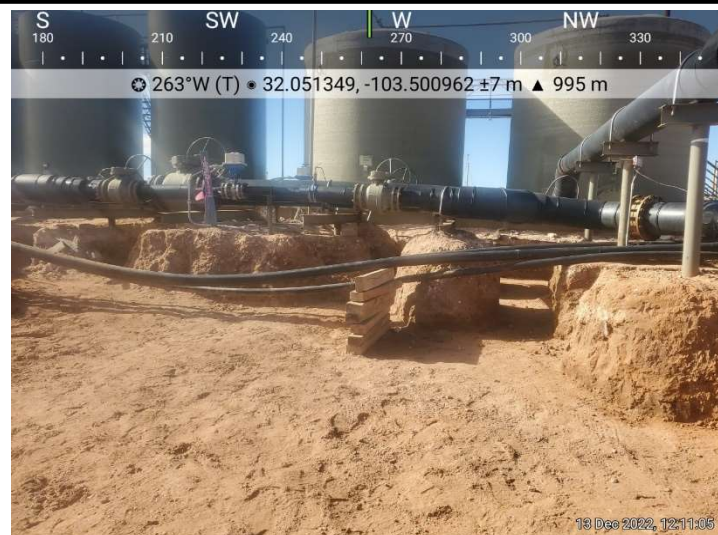


### Photograph No. 5

**Facility:** Ichabod 7 Fed 1H Battery

**County:** Lea County, New Mexico

**Description:**  
Final Excavation.



### Photograph No. 6

**Facility:** Ichabod 7 Fed 1H Battery

**County:** Lea County, New Mexico

**Description:**  
Final Excavation.



# ATTACHMENT C: CONFIRMATION SAMPLING NOTIFICATIONS

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**Kellan Smith**

---

**From:** Ethan Sessums  
**Sent:** Monday, January 23, 2023 9:18 AM  
**To:** Kellan Smith  
**Subject:** FW: Sampling Event

---

**From:** Jordan Tyner <JTyrner@ntglobal.com>  
**Sent:** Monday, October 31, 2022 3:33 PM  
**To:** New Mexico OCD <ocd.enviro@state.nm.us>  
**Cc:** Ethan Sessums <ESessums@ntglobal.com>  
**Subject:** Sampling Event

We will be conducting a sampling event on behalf of Devon on November 2, 2022 around 10am

nAPP2221331654	Ichabod Water Booster Station	7/29/2022
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Jordan Tyner  
Project Scientist  
NTG Environmental New Mexico  
402 E Wood Ave, Carlsbad, NM 88220  
M: (903) 309-8358 W: (432) 813-0263  
Email: [jtyner@ntglobal.com](mailto:jtyner@ntglobal.com)  
<http://www.ntgenvironmental.com/>



**Kellan Smith**

---

**From:** Ethan Sessums  
**Sent:** Monday, January 23, 2023 9:18 AM  
**To:** Kellan Smith  
**Subject:** FW: Sampling Event

---

**From:** Jordan Tyner <JTyrner@ntglobal.com>  
**Sent:** Wednesday, December 7, 2022 3:27 PM  
**To:** New Mexico OCD <ocd.enviro@state.nm.us>  
**Cc:** Ethan Sessums <ESessums@ntglobal.com>  
**Subject:** Sampling Event

We will be conducting a sampling event on behalf of Devon on December 13, 2022 around 10am

nAPP2221331654	Ichabod Water Booster Station	7/29/2022
----------------	-------------------------------	-----------

We will be conducting a sampling event on behalf of Devon on December 13, 2022 around 12am

nAB1916436300	PREACHER 19 FEDERAL #003H	5/31/2019
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Jordan Tyner  
Project Scientist  
NTG Environmental New Mexico  
402 E Wood Ave, Carlsbad, NM 88220  
M: (903) 309-8358 W: (432) 813-0263  
Email: [jtyner@ntglobal.com](mailto:jtyner@ntglobal.com)  
<http://www.ntgenvironmental.com/>



**Kellan Smith**

---

**From:** Ethan Sessums  
**Sent:** Monday, January 23, 2023 9:18 AM  
**To:** Kellan Smith  
**Subject:** FW: Sampling Event

---

**From:** Jordan Tyner <JTyrner@ntglobal.com>  
**Sent:** Wednesday, January 4, 2023 9:05 AM  
**To:** New Mexico OCD <ocd.enviro@state.nm.us>  
**Cc:** Ethan Sessums <ESessums@ntglobal.com>  
**Subject:** Sampling Event

We will be conducting a sampling event on behalf of Devon on January 9, 2023 around 10am

nAPP2221331654	Ichabod Water Booster Station	7/29/2022	21060585
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Jordan Tyner  
Project Scientist  
NTG Environmental New Mexico  
402 E Wood Ave, Carlsbad, NM 88220  
M: (903) 309-8358 W: (432) 813-0263  
Email: [jtyner@ntglobal.com](mailto:jtyner@ntglobal.com)  
<http://www.ntgenvironmental.com/>



# ATTACHMENT D: LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

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## Environment Testing America

### ANALYTICAL REPORT

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad, NM 88220  
Tel: (575)988-3199

Laboratory Job ID: 890-3130-1

Laboratory Sample Delivery Group: 226079

Client Project/Site: Ichabod Water Booster Station

For:

NT Global  
701 Tradewinds Blvd  
Midland, Texas 79706

Attn: Gordon Banks

Authorized for release by:

10/5/2022 11:38:22 AM

Jessica Kramer, Project Manager  
(432)704-5440

[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)

#### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://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: Ichabod Water Booster Station

Laboratory Job ID: 890-3130-1  
SDG: 226079

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## Definitions/Glossary

Client: NT Global  
Project/Site: Ichabod Water Booster Station

Job ID: 890-3130-1  
SDG: 226079

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery 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
S1+	Surrogate recovery exceeds control limits, high biased.
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: Ichabod Water Booster Station

Job ID: 890-3130-1  
SDG: 226079

## Job ID: 890-3130-1

## Laboratory: Eurofins Carlsbad

## Narrative

Job Narrative  
890-3130-1

## Receipt

The samples were received on 10/3/2022 1:53 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 24.2°C

## Receipt Exceptions

The following samples analyzed for method <FRACTION\_METHOD> were received and analyzed from an unpreserved bulk soil jar: H-1 (890-3130-1), H-2 (890-3130-2), H-3 (890-3130-3), H-4 (890-3130-4), H-5 (890-3130-5), H-6 (890-3130-6), H-7 (890-3130-7), S-1 (4-4.5) (890-3130-8), S-2 (0-1) (890-3130-9), S-3 (1-1.5) (890-3130-10) and S-4 (4-4.5) (890-3130-11).

## 890-3130

The Following samples were received and analyzed from unpreserved bulk soil.

## GC VOA

Method 8021B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-36062 and analytical batch 880-36055 recovered outside control limits for the following analytes: Benzene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-36062 and analytical batch 880-36055 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.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-36062/1-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-3122-A-1-C MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

## GC Semi VOA

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-36000 and analytical batch 880-36021 was outside the upper control limits.

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-36028 and analytical batch 880-36019 was outside the upper control limits.

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 880-36068 and 880-36068 and analytical batch 880-36102 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: Ichabod Water Booster Station

Job ID: 890-3130-1  
SDG: 226079

Client Sample ID: H-1

Lab Sample ID: 890-3130-1

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 13:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U **	0.00199		mg/Kg		10/04/22 13:56	10/04/22 18:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/04/22 13:56	10/04/22 18:37	1
Ethylbenzene	<0.00199	U **	0.00199		mg/Kg		10/04/22 13:56	10/04/22 18:37	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		10/04/22 13:56	10/04/22 18:37	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		10/04/22 13:56	10/04/22 18:37	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		10/04/22 13:56	10/04/22 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	10/04/22 13:56	10/04/22 18:37	1
1,4-Difluorobenzene (Surr)	87		70 - 130	10/04/22 13:56	10/04/22 18:37	1

## Method: TAL SOP 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			10/05/22 12:21	1

## Method: SW846 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			10/05/22 09:54	1

## Method: SW846 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		10/04/22 09:00	10/04/22 16:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/04/22 09:00	10/04/22 16:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/04/22 09:00	10/04/22 16:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	10/04/22 09:00	10/04/22 16:15	1
o-Terphenyl	103		70 - 130	10/04/22 09:00	10/04/22 16:15	1

## Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	427	F1	25.3		mg/Kg			10/05/22 01:18	5

Client Sample ID: H-2

Lab Sample ID: 890-3130-2

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 13:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U **	0.00200		mg/Kg		10/04/22 13:56	10/04/22 19:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/04/22 13:56	10/04/22 19:04	1
Ethylbenzene	<0.00200	U **	0.00200		mg/Kg		10/04/22 13:56	10/04/22 19:04	1
m-Xylene & p-Xylene	<0.00399	U **	0.00399		mg/Kg		10/04/22 13:56	10/04/22 19:04	1
o-Xylene	<0.00200	U **	0.00200		mg/Kg		10/04/22 13:56	10/04/22 19:04	1
Xylenes, Total	<0.00399	U **	0.00399		mg/Kg		10/04/22 13:56	10/04/22 19:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	10/04/22 13:56	10/04/22 19:04	1
1,4-Difluorobenzene (Surr)	87		70 - 130	10/04/22 13:56	10/04/22 19:04	1

Eurofins Carlsbad

## Client Sample Results

Client: NT Global  
Project/Site: Ichabod Water Booster Station

Job ID: 890-3130-1  
SDG: 226079

Client Sample ID: H-2

Lab Sample ID: 890-3130-2

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 13:53

## Method: TAL SOP 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			10/05/22 12:21	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	49.9		49.9		mg/Kg			10/05/22 09:54	1

## Method: SW846 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		10/03/22 14:25	10/04/22 16:37	1
Diesel Range Organics (Over C10-C28)	49.9		49.9		mg/Kg		10/03/22 14:25	10/04/22 16:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/03/22 14:25	10/04/22 16:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				10/03/22 14:25	10/04/22 16:37	1
o-Terphenyl	100		70 - 130				10/03/22 14:25	10/04/22 16:37	1

## Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5490		50.2		mg/Kg			10/05/22 01:35	10

Client Sample ID: H-3

Lab Sample ID: 890-3130-3

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 13:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U ++	0.00199		mg/Kg		10/04/22 13:56	10/04/22 19:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/04/22 13:56	10/04/22 19:30	1
Ethylbenzene	<0.00199	U ++	0.00199		mg/Kg		10/04/22 13:56	10/04/22 19:30	1
m-Xylene & p-Xylene	<0.00398	U ++	0.00398		mg/Kg		10/04/22 13:56	10/04/22 19:30	1
o-Xylene	<0.00199	U ++	0.00199		mg/Kg		10/04/22 13:56	10/04/22 19:30	1
Xylenes, Total	<0.00398	U ++	0.00398		mg/Kg		10/04/22 13:56	10/04/22 19:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				10/04/22 13:56	10/04/22 19:30	1
1,4-Difluorobenzene (Surr)	80		70 - 130				10/04/22 13:56	10/04/22 19:30	1

## Method: TAL SOP 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			10/05/22 12:21	1

## Method: SW846 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			10/05/22 09:54	1

## Method: SW846 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		10/03/22 14:25	10/04/22 17:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/03/22 14:25	10/04/22 17:07	1

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## Client Sample Results

Client: NT Global  
Project/Site: Ichabod Water Booster Station

Job ID: 890-3130-1  
SDG: 226079

## Client Sample ID: H-3

## Lab Sample ID: 890-3130-3

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 13:53

## Method: SW846 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		10/03/22 14:25	10/04/22 17:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				10/03/22 14:25	10/04/22 17:07	1
o-Terphenyl	96		70 - 130				10/03/22 14:25	10/04/22 17:07	1

## Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.0		5.03		mg/Kg			10/05/22 01:41	1

## Client Sample ID: H-4

## Lab Sample ID: 890-3130-4

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 13:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *	0.00199		mg/Kg		10/04/22 13:56	10/04/22 19:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/04/22 13:56	10/04/22 19:56	1
Ethylbenzene	<0.00199	U *	0.00199		mg/Kg		10/04/22 13:56	10/04/22 19:56	1
m-Xylene & p-Xylene	<0.00398	U *	0.00398		mg/Kg		10/04/22 13:56	10/04/22 19:56	1
o-Xylene	<0.00199	U *	0.00199		mg/Kg		10/04/22 13:56	10/04/22 19:56	1
Xylenes, Total	<0.00398	U *	0.00398		mg/Kg		10/04/22 13:56	10/04/22 19:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				10/04/22 13:56	10/04/22 19:56	1
1,4-Difluorobenzene (Surr)	86		70 - 130				10/04/22 13:56	10/04/22 19:56	1

## Method: TAL SOP 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			10/05/22 12:21	1

## Method: SW846 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			10/05/22 09:54	1

## Method: SW846 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		10/03/22 14:25	10/04/22 17:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/03/22 14:25	10/04/22 17:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/03/22 14:25	10/04/22 17:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				10/03/22 14:25	10/04/22 17:29	1
o-Terphenyl	100		70 - 130				10/03/22 14:25	10/04/22 17:29	1

## Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.9		4.99		mg/Kg			10/05/22 01:47	1

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## Client Sample Results

Client: NT Global  
Project/Site: Ichabod Water Booster Station

Job ID: 890-3130-1  
SDG: 226079

Client Sample ID: H-5

Lab Sample ID: 890-3130-5

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 13:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U **	0.00199		mg/Kg		10/04/22 13:56	10/04/22 20:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/04/22 13:56	10/04/22 20:22	1
Ethylbenzene	<0.00199	U **	0.00199		mg/Kg		10/04/22 13:56	10/04/22 20:22	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		10/04/22 13:56	10/04/22 20:22	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		10/04/22 13:56	10/04/22 20:22	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		10/04/22 13:56	10/04/22 20:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	10/04/22 13:56	10/04/22 20:22	1
1,4-Difluorobenzene (Surr)	85		70 - 130	10/04/22 13:56	10/04/22 20:22	1

## Method: TAL SOP 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			10/05/22 12:21	1

## Method: SW846 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			10/05/22 09:54	1

## Method: SW846 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		10/03/22 14:25	10/04/22 17:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/03/22 14:25	10/04/22 17:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/03/22 14:25	10/04/22 17:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	10/03/22 14:25	10/04/22 17:50	1
o-Terphenyl	97		70 - 130	10/03/22 14:25	10/04/22 17:50	1

## Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	245		4.97		mg/Kg			10/05/22 01:53	1

Client Sample ID: H-6

Lab Sample ID: 890-3130-6

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 13:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U **	0.00201		mg/Kg		10/04/22 13:56	10/04/22 22:08	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/04/22 13:56	10/04/22 22:08	1
Ethylbenzene	<0.00201	U **	0.00201		mg/Kg		10/04/22 13:56	10/04/22 22:08	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402		mg/Kg		10/04/22 13:56	10/04/22 22:08	1
o-Xylene	<0.00201	U **	0.00201		mg/Kg		10/04/22 13:56	10/04/22 22:08	1
Xylenes, Total	<0.00402	U **	0.00402		mg/Kg		10/04/22 13:56	10/04/22 22:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	10/04/22 13:56	10/04/22 22:08	1
1,4-Difluorobenzene (Surr)	86		70 - 130	10/04/22 13:56	10/04/22 22:08	1

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## Client Sample Results

Client: NT Global  
Project/Site: Ichabod Water Booster Station

Job ID: 890-3130-1  
SDG: 226079

Client Sample ID: H-6

Lab Sample ID: 890-3130-6

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 13:53

## Method: TAL SOP 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			10/05/22 12:21	1

## Method: SW846 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			10/05/22 09:54	1

## Method: SW846 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		10/03/22 14:25	10/04/22 18:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/03/22 14:25	10/04/22 18:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/03/22 14:25	10/04/22 18:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				10/03/22 14:25	10/04/22 18:12	1
o-Terphenyl	90		70 - 130				10/03/22 14:25	10/04/22 18:12	1

## Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.7		4.97		mg/Kg			10/05/22 02:10	1

Client Sample ID: H-7

Lab Sample ID: 890-3130-7

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 13:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U **	0.00200		mg/Kg		10/04/22 13:56	10/04/22 22:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/04/22 13:56	10/04/22 22:34	1
Ethylbenzene	<0.00200	U **	0.00200		mg/Kg		10/04/22 13:56	10/04/22 22:34	1
m-Xylene & p-Xylene	<0.00401	U **	0.00401		mg/Kg		10/04/22 13:56	10/04/22 22:34	1
o-Xylene	<0.00200	U **	0.00200		mg/Kg		10/04/22 13:56	10/04/22 22:34	1
Xylenes, Total	<0.00401	U **	0.00401		mg/Kg		10/04/22 13:56	10/04/22 22:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				10/04/22 13:56	10/04/22 22:34	1
1,4-Difluorobenzene (Surr)	86		70 - 130				10/04/22 13:56	10/04/22 22:34	1

## Method: TAL SOP 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			10/05/22 12:21	1

## Method: SW846 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			10/05/22 09:54	1

## Method: SW846 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		10/03/22 14:25	10/04/22 18:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/03/22 14:25	10/04/22 18:33	1

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## Client Sample Results

Client: NT Global  
Project/Site: Ichabod Water Booster Station

Job ID: 890-3130-1  
SDG: 226079

## Client Sample ID: H-7

## Lab Sample ID: 890-3130-7

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 13:53

## Method: SW846 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		10/03/22 14:25	10/04/22 18:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				10/03/22 14:25	10/04/22 18:33	1
o-Terphenyl	93		70 - 130				10/03/22 14:25	10/04/22 18:33	1

## Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.8		5.00		mg/Kg			10/05/22 02:16	1

## Client Sample ID: S-1 (4-4.5)

## Lab Sample ID: 890-3130-8

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 13:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *	0.00200		mg/Kg		10/04/22 13:56	10/04/22 23:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/04/22 13:56	10/04/22 23:00	1
Ethylbenzene	<0.00200	U *	0.00200		mg/Kg		10/04/22 13:56	10/04/22 23:00	1
m-Xylene & p-Xylene	<0.00399	U *	0.00399		mg/Kg		10/04/22 13:56	10/04/22 23:00	1
o-Xylene	<0.00200	U *	0.00200		mg/Kg		10/04/22 13:56	10/04/22 23:00	1
Xylenes, Total	<0.00399	U *	0.00399		mg/Kg		10/04/22 13:56	10/04/22 23:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				10/04/22 13:56	10/04/22 23:00	1
1,4-Difluorobenzene (Surr)	100		70 - 130				10/04/22 13:56	10/04/22 23:00	1

## Method: TAL SOP 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			10/05/22 12:21	1

## Method: SW846 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			10/05/22 09:54	1

## Method: SW846 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		10/03/22 14:25	10/04/22 18:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/03/22 14:25	10/04/22 18:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/03/22 14:25	10/04/22 18:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				10/03/22 14:25	10/04/22 18:55	1
o-Terphenyl	112		70 - 130				10/03/22 14:25	10/04/22 18:55	1

## Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3470		50.1		mg/Kg			10/05/22 02:22	10

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## Client Sample Results

Client: NT Global  
Project/Site: Ichabod Water Booster Station

Job ID: 890-3130-1  
SDG: 226079

Client Sample ID: S-2 (0-1)

Lab Sample ID: 890-3130-9

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 13:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U **	0.00199		mg/Kg		10/04/22 13:56	10/04/22 23:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/04/22 13:56	10/04/22 23:26	1
Ethylbenzene	<0.00199	U **	0.00199		mg/Kg		10/04/22 13:56	10/04/22 23:26	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		10/04/22 13:56	10/04/22 23:26	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		10/04/22 13:56	10/04/22 23:26	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		10/04/22 13:56	10/04/22 23:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	10/04/22 13:56	10/04/22 23:26	1
1,4-Difluorobenzene (Surr)	81		70 - 130	10/04/22 13:56	10/04/22 23:26	1

## Method: TAL SOP 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			10/05/22 12:21	1

## Method: SW846 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			10/05/22 09:54	1

## Method: SW846 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		10/03/22 14:25	10/04/22 19:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/03/22 14:25	10/04/22 19:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/03/22 14:25	10/04/22 19:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130	10/03/22 14:25	10/04/22 19:16	1
o-Terphenyl	111		70 - 130	10/03/22 14:25	10/04/22 19:16	1

## Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1400		25.1		mg/Kg			10/05/22 02:28	5

Client Sample ID: S-3 (1-1.5)

Lab Sample ID: 890-3130-10

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 13:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U **	0.00201		mg/Kg		10/04/22 13:56	10/04/22 23:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/04/22 13:56	10/04/22 23:52	1
Ethylbenzene	<0.00201	U **	0.00201		mg/Kg		10/04/22 13:56	10/04/22 23:52	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402		mg/Kg		10/04/22 13:56	10/04/22 23:52	1
o-Xylene	<0.00201	U **	0.00201		mg/Kg		10/04/22 13:56	10/04/22 23:52	1
Xylenes, Total	<0.00402	U **	0.00402		mg/Kg		10/04/22 13:56	10/04/22 23:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	10/04/22 13:56	10/04/22 23:52	1
1,4-Difluorobenzene (Surr)	88		70 - 130	10/04/22 13:56	10/04/22 23:52	1

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## Client Sample Results

Client: NT Global  
Project/Site: Ichabod Water Booster Station

Job ID: 890-3130-1  
SDG: 226079

Client Sample ID: S-3 (1-1.5)

Lab Sample ID: 890-3130-10

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 13:53

## Method: TAL SOP 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			10/05/22 12:21	1

## Method: SW846 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			10/05/22 09:54	1

## Method: SW846 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		10/03/22 14:25	10/04/22 19:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/03/22 14:25	10/04/22 19:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/03/22 14:25	10/04/22 19:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				10/03/22 14:25	10/04/22 19:38	1
o-Terphenyl	103		70 - 130				10/03/22 14:25	10/04/22 19:38	1

## Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1670		25.2		mg/Kg			10/05/22 02:34	5

Client Sample ID: S-4 (4-4.5)

Lab Sample ID: 890-3130-11

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 13:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U **	0.00199		mg/Kg		10/04/22 13:56	10/05/22 00:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/04/22 13:56	10/05/22 00:18	1
Ethylbenzene	<0.00199	U **	0.00199		mg/Kg		10/04/22 13:56	10/05/22 00:18	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		10/04/22 13:56	10/05/22 00:18	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		10/04/22 13:56	10/05/22 00:18	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		10/04/22 13:56	10/05/22 00:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				10/04/22 13:56	10/05/22 00:18	1
1,4-Difluorobenzene (Surr)	78		70 - 130				10/04/22 13:56	10/05/22 00:18	1

## Method: TAL SOP 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			10/05/22 12:21	1

## Method: SW846 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			10/05/22 09:54	1

## Method: SW846 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		10/04/22 08:23	10/04/22 19:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/04/22 08:23	10/04/22 19:16	1

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## Client Sample Results

Client: NT Global  
Project/Site: Ichabod Water Booster Station

Job ID: 890-3130-1  
SDG: 226079

Client Sample ID: S-4 (4-4.5)

Lab Sample ID: 890-3130-11

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 13:53

## Method: SW846 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		10/04/22 08:23	10/04/22 19:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	10/04/22 08:23	10/04/22 19:16	1
o-Terphenyl	90		70 - 130	10/04/22 08:23	10/04/22 19:16	1

## Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1350	F1	25.0		mg/Kg			10/05/22 02:40	5

## Surrogate Summary

Client: NT Global  
Project/Site: Ichabod Water Booster Station

Job ID: 890-3130-1  
SDG: 226079

## 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)
890-3122-A-1-C MS	Matrix Spike	135 S1+	97
890-3122-A-1-D MSD	Matrix Spike Duplicate	124	91
890-3130-1	H-1	95	87
890-3130-2	H-2	121	87
890-3130-3	H-3	126	80
890-3130-4	H-4	99	86
890-3130-5	H-5	130	85
890-3130-6	H-6	115	86
890-3130-7	H-7	121	86
890-3130-8	S-1 (4-4.5)	110	100
890-3130-9	S-2 (0-1)	102	81
890-3130-10	S-3 (1-1.5)	102	88
890-3130-11	S-4 (4-4.5)	108	78
LCS 880-36062/1-A	Lab Control Sample	138 S1+	104
LCSD 880-36062/2-A	Lab Control Sample Dup	120	94
MB 880-36062/5-A	Method Blank	86	88
<b>Surrogate Legend</b>			
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)
890-3113-A-41-B MS	Matrix Spike	82	76
890-3113-A-41-C MSD	Matrix Spike Duplicate	83	75
890-3114-A-32-D MS	Matrix Spike	96	88
890-3114-A-32-E MSD	Matrix Spike Duplicate	82	75
890-3130-1	H-1	111	103
890-3130-2	H-2	108	100
890-3130-3	H-3	102	96
890-3130-4	H-4	106	100
890-3130-5	H-5	101	97
890-3130-6	H-6	97	90
890-3130-7	H-7	99	93
890-3130-8	S-1 (4-4.5)	116	112
890-3130-9	S-2 (0-1)	125	111
890-3130-10	S-3 (1-1.5)	107	103
890-3130-11	S-4 (4-4.5)	90	90
LCS 880-36000/2-A	Lab Control Sample	98	102
LCS 880-36028/2-A	Lab Control Sample	99	104
LCSD 880-36000/3-A	Lab Control Sample Dup	113	101
LCSD 880-36028/3-A	Lab Control Sample Dup	100	106
MB 880-36000/1-A	Method Blank	147 S1+	143 S1+
MB 880-36028/1-A	Method Blank	129	142 S1+
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			

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Surrogate Summary

Client: NT Global  
Project/Site: Ichabod Water Booster Station  
OTPH = o-Terphenyl

Job ID: 890-3130-1  
SDG: 226079

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



## QC Sample Results

Client: NT Global  
Project/Site: Ichabod Water Booster Station

Job ID: 890-3130-1  
SDG: 226079

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

Lab Sample ID: MB 880-36062/5-A

Matrix: Solid

Analysis Batch: 36055

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36062

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/04/22 13:56	10/04/22 16:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/04/22 13:56	10/04/22 16:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/04/22 13:56	10/04/22 16:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/04/22 13:56	10/04/22 16:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/04/22 13:56	10/04/22 16:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/04/22 13:56	10/04/22 16:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	10/04/22 13:56	10/04/22 16:01	1
1,4-Difluorobenzene (Surr)	88		70 - 130	10/04/22 13:56	10/04/22 16:01	1

Lab Sample ID: LCS 880-36062/1-A

Matrix: Solid

Analysis Batch: 36055

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36062

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1337	*+	mg/Kg		134	70 - 130
Toluene	0.100	0.1188		mg/Kg		119	70 - 130
Ethylbenzene	0.100	0.1392	*+	mg/Kg		139	70 - 130
m-Xylene & p-Xylene	0.200	0.2792	*+	mg/Kg		140	70 - 130
o-Xylene	0.100	0.1441	*+	mg/Kg		144	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-36062/2-A

Matrix: Solid

Analysis Batch: 36055

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 36062

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1174		mg/Kg		117	70 - 130	13	35
Toluene	0.100	0.1208		mg/Kg		121	70 - 130	2	35
Ethylbenzene	0.100	0.1192		mg/Kg		119	70 - 130	15	35
m-Xylene & p-Xylene	0.200	0.2376		mg/Kg		119	70 - 130	16	35
o-Xylene	0.100	0.1201		mg/Kg		120	70 - 130	18	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-3122-A-1-C MS

Matrix: Solid

Analysis Batch: 36055

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 36062

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U *+ F1	0.0998	0.1312	F1	mg/Kg		131	70 - 130
Toluene	<0.00198	U F1	0.0998	0.1402	F1	mg/Kg		140	70 - 130

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## QC Sample Results

Client: NT Global  
Project/Site: Ichabod Water Booster Station

Job ID: 890-3130-1  
SDG: 226079

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

Lab Sample ID: 890-3122-A-1-C MS

Matrix: Solid

Analysis Batch: 36055

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 36062

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U *+ F1	0.0998	0.1398	F1	mg/Kg		140	70 - 130
m-Xylene & p-Xylene	<0.00396	U *+ F1	0.200	0.2793	F1	mg/Kg		140	70 - 130
o-Xylene	<0.00198	U *+ F1	0.0998	0.1352	F1	mg/Kg		136	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-3122-A-1-D MSD

Matrix: Solid

Analysis Batch: 36055

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 36062

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U *+ F1	0.0996	0.1158		mg/Kg		116	70 - 130	12	35
Toluene	<0.00198	U F1	0.0996	0.1192		mg/Kg		120	70 - 130	16	35
Ethylbenzene	<0.00198	U *+ F1	0.0996	0.1180		mg/Kg		119	70 - 130	17	35
m-Xylene & p-Xylene	<0.00396	U *+ F1	0.199	0.2364		mg/Kg		119	70 - 130	17	35
o-Xylene	<0.00198	U *+ F1	0.0996	0.1185		mg/Kg		119	70 - 130	13	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

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

Lab Sample ID: MB 880-36000/1-A

Matrix: Solid

Analysis Batch: 36021

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36000

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		10/03/22 14:25	10/04/22 10:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/03/22 14:25	10/04/22 10:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/03/22 14:25	10/04/22 10:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130	10/03/22 14:25	10/04/22 10:16	1
o-Terphenyl	143	S1+	70 - 130	10/03/22 14:25	10/04/22 10:16	1

Lab Sample ID: LCS 880-36000/2-A

Matrix: Solid

Analysis Batch: 36021

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36000

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	825.3		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	1000	980.5		mg/Kg		98	70 - 130

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## QC Sample Results

Client: NT Global  
Project/Site: Ichabod Water Booster Station

Job ID: 890-3130-1  
SDG: 226079

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

Lab Sample ID: LCS 880-36000/2-A

Matrix: Solid

Analysis Batch: 36021

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36000

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: LCSD 880-36000/3-A

Matrix: Solid

Analysis Batch: 36021

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 36000

				Spike	LCSD	LCSD				RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	825.4		mg/Kg		83	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	976.9		mg/Kg		98	70 - 130	0	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: 890-3113-A-41-B MS

Matrix: Solid

Analysis Batch: 36021

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 36000

	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	998	798.8		mg/Kg		80	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	998	945.0		mg/Kg		92	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	76		70 - 130

Lab Sample ID: 890-3113-A-41-C MSD

Matrix: Solid

Analysis Batch: 36021

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 36000

	Sample	Sample	Spike	MSD	MSD			%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	827.4		mg/Kg		83	70 - 130	4
Diesel Range Organics (Over C10-C28)	<50.0	U	999	952.9		mg/Kg		93	70 - 130	1

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	75		70 - 130

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## QC Sample Results

Client: NT Global  
Project/Site: Ichabod Water Booster Station

Job ID: 890-3130-1  
SDG: 226079

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

Lab Sample ID: MB 880-36028/1-A

Matrix: Solid

Analysis Batch: 36019

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36028

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		10/04/22 08:23	10/04/22 10:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/04/22 08:23	10/04/22 10:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/04/22 08:23	10/04/22 10:16	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130				10/04/22 08:23	10/04/22 10:16	1
o-Terphenyl	142	S1+	70 - 130				10/04/22 08:23	10/04/22 10:16	1

Lab Sample ID: LCS 880-36028/2-A

Matrix: Solid

Analysis Batch: 36019

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36028

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	950.3		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	897.7		mg/Kg		90	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane	99		70 - 130				
o-Terphenyl	104		70 - 130				

Lab Sample ID: LCSD 880-36028/3-A

Matrix: Solid

Analysis Batch: 36019

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 36028

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	865.0		mg/Kg		86	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	1000	902.2		mg/Kg		90	70 - 130	0	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	100		70 - 130						
o-Terphenyl	106		70 - 130						

Lab Sample ID: 890-3114-A-32-D MS

Matrix: Solid

Analysis Batch: 36019

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 36028

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	983.0		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1166		mg/Kg		114	70 - 130

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## QC Sample Results

Client: NT Global  
Project/Site: Ichabod Water Booster Station

Job ID: 890-3130-1  
SDG: 226079

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

Lab Sample ID: 890-3114-A-32-D MS

Matrix: Solid

Analysis Batch: 36019

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 36028

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: 890-3114-A-32-E MSD

Matrix: Solid

Analysis Batch: 36019

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 36028

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	<50.0	U	999	1106		mg/Kg		109	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1007		mg/Kg		98	70 - 130	15	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	75		70 - 130

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-36068/1-A

Matrix: Solid

Analysis Batch: 36102

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			10/05/22 01:00	1

Lab Sample ID: LCS 880-36068/2-A

Matrix: Solid

Analysis Batch: 36102

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.0		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-36068/3-A

Matrix: Solid

Analysis Batch: 36102

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	237.6		mg/Kg		95	90 - 110	6	20

Lab Sample ID: 890-3130-1 MS

Matrix: Solid

Analysis Batch: 36102

Client Sample ID: H-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	427	F1	1260	1450	F1	mg/Kg		81	90 - 110

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QC Sample Results

Client: NT Global  
Project/Site: Ichabod Water Booster Station

Job ID: 890-3130-1  
SDG: 226079

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-3130-1 MSD												Client Sample ID: H-1	
Matrix: Solid												Prep Type: Soluble	
Analysis Batch: 36102													
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Chloride	427	F1	1260	1568		mg/Kg		90	90 - 110	8	20		
Lab Sample ID: 890-3130-11 MS												Client Sample ID: S-4 (4-4.5)	
Matrix: Solid												Prep Type: Soluble	
Analysis Batch: 36102													
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits				
Chloride	1350	F1	1250	2411	F1	mg/Kg		85	90 - 110				
Lab Sample ID: 890-3130-11 MSD												Client Sample ID: S-4 (4-4.5)	
Matrix: Solid												Prep Type: Soluble	
Analysis Batch: 36102													
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Chloride	1350	F1	1250	2550		mg/Kg		96	90 - 110	6	20		

## QC Association Summary

Client: NT Global  
Project/Site: Ichabod Water Booster Station

Job ID: 890-3130-1  
SDG: 226079

## GC VOA

## Analysis Batch: 36055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3130-1	H-1	Total/NA	Solid	8021B	36062
890-3130-2	H-2	Total/NA	Solid	8021B	36062
890-3130-3	H-3	Total/NA	Solid	8021B	36062
890-3130-4	H-4	Total/NA	Solid	8021B	36062
890-3130-5	H-5	Total/NA	Solid	8021B	36062
890-3130-6	H-6	Total/NA	Solid	8021B	36062
890-3130-7	H-7	Total/NA	Solid	8021B	36062
890-3130-8	S-1 (4-4.5)	Total/NA	Solid	8021B	36062
890-3130-9	S-2 (0-1)	Total/NA	Solid	8021B	36062
890-3130-10	S-3 (1-1.5)	Total/NA	Solid	8021B	36062
890-3130-11	S-4 (4-4.5)	Total/NA	Solid	8021B	36062
MB 880-36062/5-A	Method Blank	Total/NA	Solid	8021B	36062
LCS 880-36062/1-A	Lab Control Sample	Total/NA	Solid	8021B	36062
LCSD 880-36062/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	36062
890-3122-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	36062
890-3122-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	36062

## Prep Batch: 36062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3130-1	H-1	Total/NA	Solid	5035	
890-3130-2	H-2	Total/NA	Solid	5035	
890-3130-3	H-3	Total/NA	Solid	5035	
890-3130-4	H-4	Total/NA	Solid	5035	
890-3130-5	H-5	Total/NA	Solid	5035	
890-3130-6	H-6	Total/NA	Solid	5035	
890-3130-7	H-7	Total/NA	Solid	5035	
890-3130-8	S-1 (4-4.5)	Total/NA	Solid	5035	
890-3130-9	S-2 (0-1)	Total/NA	Solid	5035	
890-3130-10	S-3 (1-1.5)	Total/NA	Solid	5035	
890-3130-11	S-4 (4-4.5)	Total/NA	Solid	5035	
MB 880-36062/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-36062/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-36062/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3122-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-3122-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 36178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3130-1	H-1	Total/NA	Solid	Total BTEX	
890-3130-2	H-2	Total/NA	Solid	Total BTEX	
890-3130-3	H-3	Total/NA	Solid	Total BTEX	
890-3130-4	H-4	Total/NA	Solid	Total BTEX	
890-3130-5	H-5	Total/NA	Solid	Total BTEX	
890-3130-6	H-6	Total/NA	Solid	Total BTEX	
890-3130-7	H-7	Total/NA	Solid	Total BTEX	
890-3130-8	S-1 (4-4.5)	Total/NA	Solid	Total BTEX	
890-3130-9	S-2 (0-1)	Total/NA	Solid	Total BTEX	
890-3130-10	S-3 (1-1.5)	Total/NA	Solid	Total BTEX	
890-3130-11	S-4 (4-4.5)	Total/NA	Solid	Total BTEX	

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## QC Association Summary

Client: NT Global  
Project/Site: Ichabod Water Booster Station

Job ID: 890-3130-1  
SDG: 226079

## GC Semi VOA

## Prep Batch: 36000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3130-1	H-1	Total/NA	Solid	8015NM Prep	
890-3130-2	H-2	Total/NA	Solid	8015NM Prep	
890-3130-3	H-3	Total/NA	Solid	8015NM Prep	
890-3130-4	H-4	Total/NA	Solid	8015NM Prep	
890-3130-5	H-5	Total/NA	Solid	8015NM Prep	
890-3130-6	H-6	Total/NA	Solid	8015NM Prep	
890-3130-7	H-7	Total/NA	Solid	8015NM Prep	
890-3130-8	S-1 (4-4.5)	Total/NA	Solid	8015NM Prep	
890-3130-9	S-2 (0-1)	Total/NA	Solid	8015NM Prep	
890-3130-10	S-3 (1-1.5)	Total/NA	Solid	8015NM Prep	
MB 880-36000/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-36000/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-36000/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3113-A-41-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3113-A-41-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 36019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3130-11	S-4 (4-4.5)	Total/NA	Solid	8015B NM	36028
MB 880-36028/1-A	Method Blank	Total/NA	Solid	8015B NM	36028
LCS 880-36028/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	36028
LCSD 880-36028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	36028
890-3114-A-32-D MS	Matrix Spike	Total/NA	Solid	8015B NM	36028
890-3114-A-32-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	36028

## Analysis Batch: 36021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3130-1	H-1	Total/NA	Solid	8015B NM	36000
890-3130-2	H-2	Total/NA	Solid	8015B NM	36000
890-3130-3	H-3	Total/NA	Solid	8015B NM	36000
890-3130-4	H-4	Total/NA	Solid	8015B NM	36000
890-3130-5	H-5	Total/NA	Solid	8015B NM	36000
890-3130-6	H-6	Total/NA	Solid	8015B NM	36000
890-3130-7	H-7	Total/NA	Solid	8015B NM	36000
890-3130-8	S-1 (4-4.5)	Total/NA	Solid	8015B NM	36000
890-3130-9	S-2 (0-1)	Total/NA	Solid	8015B NM	36000
890-3130-10	S-3 (1-1.5)	Total/NA	Solid	8015B NM	36000
MB 880-36000/1-A	Method Blank	Total/NA	Solid	8015B NM	36000
LCS 880-36000/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	36000
LCSD 880-36000/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	36000
890-3113-A-41-B MS	Matrix Spike	Total/NA	Solid	8015B NM	36000
890-3113-A-41-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	36000

## Prep Batch: 36028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3130-11	S-4 (4-4.5)	Total/NA	Solid	8015NM Prep	
MB 880-36028/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-36028/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-36028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3114-A-32-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3114-A-32-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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## QC Association Summary

Client: NT Global  
Project/Site: Ichabod Water Booster Station

Job ID: 890-3130-1  
SDG: 226079

## GC Semi VOA

## Analysis Batch: 36150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3130-1	H-1	Total/NA	Solid	8015 NM	
890-3130-2	H-2	Total/NA	Solid	8015 NM	
890-3130-3	H-3	Total/NA	Solid	8015 NM	
890-3130-4	H-4	Total/NA	Solid	8015 NM	
890-3130-5	H-5	Total/NA	Solid	8015 NM	
890-3130-6	H-6	Total/NA	Solid	8015 NM	
890-3130-7	H-7	Total/NA	Solid	8015 NM	
890-3130-8	S-1 (4-4.5)	Total/NA	Solid	8015 NM	
890-3130-9	S-2 (0-1)	Total/NA	Solid	8015 NM	
890-3130-10	S-3 (1-1.5)	Total/NA	Solid	8015 NM	
890-3130-11	S-4 (4-4.5)	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 36068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3130-1	H-1	Soluble	Solid	DI Leach	
890-3130-2	H-2	Soluble	Solid	DI Leach	
890-3130-3	H-3	Soluble	Solid	DI Leach	
890-3130-4	H-4	Soluble	Solid	DI Leach	
890-3130-5	H-5	Soluble	Solid	DI Leach	
890-3130-6	H-6	Soluble	Solid	DI Leach	
890-3130-7	H-7	Soluble	Solid	DI Leach	
890-3130-8	S-1 (4-4.5)	Soluble	Solid	DI Leach	
890-3130-9	S-2 (0-1)	Soluble	Solid	DI Leach	
890-3130-10	S-3 (1-1.5)	Soluble	Solid	DI Leach	
890-3130-11	S-4 (4-4.5)	Soluble	Solid	DI Leach	
MB 880-36068/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-36068/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-36068/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3130-1 MS	H-1	Soluble	Solid	DI Leach	
890-3130-1 MSD	H-1	Soluble	Solid	DI Leach	
890-3130-11 MS	S-4 (4-4.5)	Soluble	Solid	DI Leach	
890-3130-11 MSD	S-4 (4-4.5)	Soluble	Solid	DI Leach	

## Analysis Batch: 36102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3130-1	H-1	Soluble	Solid	300.0	36068
890-3130-2	H-2	Soluble	Solid	300.0	36068
890-3130-3	H-3	Soluble	Solid	300.0	36068
890-3130-4	H-4	Soluble	Solid	300.0	36068
890-3130-5	H-5	Soluble	Solid	300.0	36068
890-3130-6	H-6	Soluble	Solid	300.0	36068
890-3130-7	H-7	Soluble	Solid	300.0	36068
890-3130-8	S-1 (4-4.5)	Soluble	Solid	300.0	36068
890-3130-9	S-2 (0-1)	Soluble	Solid	300.0	36068
890-3130-10	S-3 (1-1.5)	Soluble	Solid	300.0	36068
890-3130-11	S-4 (4-4.5)	Soluble	Solid	300.0	36068
MB 880-36068/1-A	Method Blank	Soluble	Solid	300.0	36068
LCS 880-36068/2-A	Lab Control Sample	Soluble	Solid	300.0	36068
LCSD 880-36068/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	36068

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QC Association Summary

Client: NT Global  
Project/Site: Ichabod Water Booster Station

Job ID: 890-3130-1  
SDG: 226079

HPLC/IC (Continued)

Analysis Batch: 36102 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3130-1 MS	H-1	Soluble	Solid	300.0	36068
890-3130-1 MSD	H-1	Soluble	Solid	300.0	36068
890-3130-11 MS	S-4 (4-4.5)	Soluble	Solid	300.0	36068
890-3130-11 MSD	S-4 (4-4.5)	Soluble	Solid	300.0	36068

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

## Lab Chronicle

Client: NT Global  
Project/Site: Ichabod Water Booster Station

Job ID: 890-3130-1  
SDG: 226079

## Client Sample ID: H-1

## Lab Sample ID: 890-3130-1

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 13:53

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	36062	10/04/22 13:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36055	10/04/22 18:37	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36178	10/05/22 12:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			36150	10/05/22 09:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36000	10/04/22 09:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36021	10/04/22 16:15	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	36068	10/04/22 15:11	KS	EET MID
Soluble	Analysis	300.0		5			36102	10/05/22 01:18	CH	EET MID

## Client Sample ID: H-2

## Lab Sample ID: 890-3130-2

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 13:53

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	36062	10/04/22 13:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36055	10/04/22 19:04	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36178	10/05/22 12:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			36150	10/05/22 09:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36000	10/03/22 14:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36021	10/04/22 16:37	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	36068	10/04/22 15:11	KS	EET MID
Soluble	Analysis	300.0		10			36102	10/05/22 01:35	CH	EET MID

## Client Sample ID: H-3

## Lab Sample ID: 890-3130-3

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 13:53

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	36062	10/04/22 13:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36055	10/04/22 19:30	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36178	10/05/22 12:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			36150	10/05/22 09:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36000	10/03/22 14:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36021	10/04/22 17:07	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	36068	10/04/22 15:11	KS	EET MID
Soluble	Analysis	300.0		1			36102	10/05/22 01:41	CH	EET MID

## Client Sample ID: H-4

## Lab Sample ID: 890-3130-4

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 13:53

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	36062	10/04/22 13:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36055	10/04/22 19:56	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36178	10/05/22 12:21	SM	EET MID

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## Lab Chronicle

Client: NT Global  
Project/Site: Ichabod Water Booster Station

Job ID: 890-3130-1  
SDG: 226079

## Client Sample ID: H-4

## Lab Sample ID: 890-3130-4

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 13:53

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			36150	10/05/22 09:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36000	10/03/22 14:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36021	10/04/22 17:29	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	36068	10/04/22 15:11	KS	EET MID
Soluble	Analysis	300.0		1			36102	10/05/22 01:47	CH	EET MID

## Client Sample ID: H-5

## Lab Sample ID: 890-3130-5

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 13:53

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	36062	10/04/22 13:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36055	10/04/22 20:22	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36178	10/05/22 12:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			36150	10/05/22 09:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36000	10/03/22 14:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36021	10/04/22 17:50	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	36068	10/04/22 15:11	KS	EET MID
Soluble	Analysis	300.0		1			36102	10/05/22 01:53	CH	EET MID

## Client Sample ID: H-6

## Lab Sample ID: 890-3130-6

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 13:53

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	36062	10/04/22 13:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36055	10/04/22 22:08	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36178	10/05/22 12:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			36150	10/05/22 09:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36000	10/03/22 14:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36021	10/04/22 18:12	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	36068	10/04/22 15:11	KS	EET MID
Soluble	Analysis	300.0		1			36102	10/05/22 02:10	CH	EET MID

## Client Sample ID: H-7

## Lab Sample ID: 890-3130-7

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 13:53

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	36062	10/04/22 13:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36055	10/04/22 22:34	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36178	10/05/22 12:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			36150	10/05/22 09:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36000	10/03/22 14:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36021	10/04/22 18:33	SM	EET MID

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## Lab Chronicle

Client: NT Global  
Project/Site: Ichabod Water Booster Station

Job ID: 890-3130-1  
SDG: 226079

## Client Sample ID: H-7

## Lab Sample ID: 890-3130-7

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 13:53

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 g	50 mL	36068	10/04/22 15:11	KS	EET MID
Soluble	Analysis	300.0		1			36102	10/05/22 02:16	CH	EET MID

## Client Sample ID: S-1 (4-4.5)

## Lab Sample ID: 890-3130-8

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 13:53

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	36062	10/04/22 13:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36055	10/04/22 23:00	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36178	10/05/22 12:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			36150	10/05/22 09:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36000	10/03/22 14:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36021	10/04/22 18:55	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	36068	10/04/22 15:11	KS	EET MID
Soluble	Analysis	300.0		10			36102	10/05/22 02:22	CH	EET MID

## Client Sample ID: S-2 (0-1)

## Lab Sample ID: 890-3130-9

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 13:53

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	36062	10/04/22 13:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36055	10/04/22 23:26	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36178	10/05/22 12:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			36150	10/05/22 09:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36000	10/03/22 14:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36021	10/04/22 19:16	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	36068	10/04/22 15:11	KS	EET MID
Soluble	Analysis	300.0		5			36102	10/05/22 02:28	CH	EET MID

## Client Sample ID: S-3 (1-1.5)

## Lab Sample ID: 890-3130-10

Date Collected: 10/03/22 12:00

Matrix: Solid

Date Received: 10/03/22 13:53

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	36062	10/04/22 13:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36055	10/04/22 23:52	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36178	10/05/22 12:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			36150	10/05/22 09:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36000	10/03/22 14:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36021	10/04/22 19:38	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	36068	10/04/22 15:11	KS	EET MID
Soluble	Analysis	300.0		5			36102	10/05/22 02:34	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: NT Global  
Project/Site: Ichabod Water Booster Station

Job ID: 890-3130-1  
SDG: 226079

Client Sample ID: S-4 (4-4.5)  
Date Collected: 10/03/22 12:00  
Date Received: 10/03/22 13:53

Lab Sample ID: 890-3130-11  
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			5.03 g	5 mL	36062	10/04/22 13:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36055	10/05/22 00:18	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36178	10/05/22 12:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			36150	10/05/22 09:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36028	10/04/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36019	10/04/22 19:16	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	36068	10/04/22 15:11	KS	EET MID
Soluble	Analysis	300.0		5			36102	10/05/22 02:40	CH	EET MID

Laboratory References:  
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: NT Global  
Project/Site: Ichabod Water Booster Station

Job ID: 890-3130-1  
SDG: 226079

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	T104704400-22-24	06-30-23

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: Ichabod Water Booster Station

Job ID: 890-3130-1  
SDG: 226079

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

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



## Sample Summary

Client: NT Global  
Project/Site: Ichabod Water Booster Station

Job ID: 890-3130-1  
SDG: 226079

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-3130-1	H-1	Solid	10/03/22 12:00	10/03/22 13:53
890-3130-2	H-2	Solid	10/03/22 12:00	10/03/22 13:53
890-3130-3	H-3	Solid	10/03/22 12:00	10/03/22 13:53
890-3130-4	H-4	Solid	10/03/22 12:00	10/03/22 13:53
890-3130-5	H-5	Solid	10/03/22 12:00	10/03/22 13:53
890-3130-6	H-6	Solid	10/03/22 12:00	10/03/22 13:53
890-3130-7	H-7	Solid	10/03/22 12:00	10/03/22 13:53
890-3130-8	S-1 (4-4.5)	Solid	10/03/22 12:00	10/03/22 13:53
890-3130-9	S-2 (0-1)	Solid	10/03/22 12:00	10/03/22 13:53
890-3130-10	S-3 (1-1.5)	Solid	10/03/22 12:00	10/03/22 13:53
890-3130-11	S-4 (4-4.5)	Solid	10/03/22 12:00	10/03/22 13:53



Chain of Custody

Work Order No: \_\_\_\_\_

Page 1 of 2

Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	Wesley.Mathews@devon.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Unperturbed <input type="checkbox"/>	
State of Project:	
Reporting Level: I <input type="checkbox"/> 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:	

Project Name:	Ichabod Water Booster Station	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST												Preservative Codes	
Project Number:	226079	Due Date:	48HR															None: NO	DI Water: H <sub>2</sub> O
Project Location:	Lea Co. NM																	Cool: Cool	MeOH: Me
Sampler's Name:	Jordan Tyner																	HCL: HC	HNO <sub>3</sub> : HN
PO #:	21060585																	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	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"/>														H <sub>3</sub> PO <sub>4</sub> : HP	
Received Inact:	Thermometer ID:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																NaHSO <sub>4</sub> : NABIS	
Cooler Custody Seals:	Correction Factor:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	
Sample Custody Seals:	Temperature Reading:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																Zn Acetate+NaOH: Zn	
Total Containers:	Corrected Temperature:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																NaOH+Ascorbic Acid: SAPC	

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	TP													Sample Comments
H-1	10/3/2022		X		Grab/	1	X	X	X											
H-2	10/3/2022		X		Grab/	1	X	X	X											
H-3	10/3/2022		X		Grab/	1	X	X	X											
H-4	10/3/2022		X		Grab/	1	X	X	X											
H-5	10/3/2022		X		Grab/	1	X	X	X											
H-6	10/3/2022		X		Grab/	1	X	X	X											
H-7	10/3/2022		X		Grab/	1	X	X	X											
S-1 (4-4.5)	10/3/2022		X		Grab/	1	X	X	X											
S-2 (0-1)	10/3/2022		X		Grab/	1	X	X	X											
S-3 (1-1.5)	10/3/2022		X		Grab/	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
<i>[Signature]</i>	<i>[Signature]</i>	10/3/22 1358			



## Chain of Custody

**Work Order No:** \_\_\_\_\_

Page 2 of 2

Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	Wesley.Mathews@dvn.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:	

<b>Project Name:</b>	Ichabod Water Booster Station	<b>Turn Around</b>		<b>Pess.</b>							<b>Preservative Codes</b>			
<b>Project Number:</b>	226079	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush		<b>Code</b>									None; NO	DI Water; H <sub>2</sub> O
<b>Project Location</b>	Lea Co. NM	<b>Due Date:</b>		48-HR									Cool; Cool	MeOH; Me
<b>Sampler's Name:</b>	Jordan Tyner	TAT starts the day received by the lab, if received by 4:30pm											HCL; HC	HNO <sub>3</sub> ; HN
<b>PO #:</b>	21060585												H <sub>2</sub> SO <sub>4</sub> ; H <sub>2</sub>	NaOH; Na
<b>SAMPLE RECEIPT</b>		Temp Blank:	Yes No	Wet Ice:	Yes No									
<b>Received In tact:</b>	Yes No	Thermometer (F):												
<b>Cooler Custody Seals:</b>	Yes No N/A	Correction Factor:												
<b>Sample Custody Seals:</b>	Yes No N/A	Temperature Reading:												
<b>Total Containers:</b>	11	Corrected Temperature:												
<b>Parameters</b>														
BTEX 8021B														
8015M ( GRO + DRO + MRO)														
Chloride 4500														
<b>HOLD</b>														
H <sub>3</sub> PO <sub>4</sub> ; HP														
NaHSO <sub>4</sub> ; NABIS														
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ; NaSO <sub>3</sub>														
Zn Acetate+NaOH; Zn														
NaOH+Ascorbic Acid; SAFC														

[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 \$65.00 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>[Signature]</i>	<i>[Signature]</i>	10/3/02 1353	2		
3			4		
5			6		

## Login Sample Receipt Checklist

Client: NT Global

Job Number: 890-3130-1

SDG Number: 226079

Login Number: 3130

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	N/A	Refer to Job Narrative for details.
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	

## Login Sample Receipt Checklist

Client: NT Global

Job Number: 890-3130-1

SDG Number: 226079

Login Number: 3130

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 10/04/22 10:34 AM

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	



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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January 19, 2023

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: ICHABOD WATER BOOSTER STATION

Enclosed are the results of analyses for samples received by the laboratory on 11/02/22 15:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS - 1 4.5'	H225167-01	Soil	02-Nov-22 10:00	02-Nov-22 15:10
CS - 2 4.5'	H225167-02	Soil	02-Nov-22 10:00	02-Nov-22 15:10
CS - 3 4.5'	H225167-03	Soil	02-Nov-22 10:00	02-Nov-22 15:10
CS - 4 4.5'	H225167-04	Soil	02-Nov-22 10:00	02-Nov-22 15:10
CS - 5 4.5'	H225167-05	Soil	02-Nov-22 10:00	02-Nov-22 15:10
CS - 6 4.5'	H225167-06	Soil	02-Nov-22 10:00	02-Nov-22 15:10
CS - 7 4.5'	H225167-07	Soil	02-Nov-22 10:00	02-Nov-22 15:10
CS - 8 4.5'	H225167-08	Soil	02-Nov-22 10:00	02-Nov-22 15:10
CS - 9 4.5'	H225167-09	Soil	02-Nov-22 10:00	02-Nov-22 15:10
CS - 10 4.5'	H225167-10	Soil	02-Nov-22 10:00	02-Nov-22 15:10
CS - 11 4.5'	H225167-11	Soil	02-Nov-22 10:00	02-Nov-22 15:10
CS - 12 4.5'	H225167-12	Soil	02-Nov-22 10:00	02-Nov-22 15:10
CS - 13 4.5'	H225167-13	Soil	02-Nov-22 10:00	02-Nov-22 15:10
CS - 14 6'	H225167-14	Soil	02-Nov-22 10:00	02-Nov-22 15:10
CS - 15 6'	H225167-15	Soil	02-Nov-22 10:00	02-Nov-22 15:10
CS - 16 8'	H225167-16	Soil	02-Nov-22 10:00	02-Nov-22 15:10
CS - 17 5'	H225167-17	Soil	02-Nov-22 10:00	02-Nov-22 15:10
CS - 18 5'	H225167-18	Soil	02-Nov-22 10:00	02-Nov-22 15:10
SW - 1	H225167-19	Soil	02-Nov-22 10:00	02-Nov-22 15:10
SW - 2	H225167-20	Soil	02-Nov-22 10:00	02-Nov-22 15:10
SW - 3	H225167-21	Soil	02-Nov-22 10:00	02-Nov-22 15:10
SW - 4	H225167-22	Soil	02-Nov-22 10:00	02-Nov-22 15:10
SW - 5	H225167-23	Soil	02-Nov-22 10:00	02-Nov-22 15:10
SW - 6	H225167-24	Soil	02-Nov-22 10:00	02-Nov-22 15:10
SW - 7	H225167-25	Soil	02-Nov-22 10:00	02-Nov-22 15:10
SW - 8	H225167-26	Soil	02-Nov-22 10:00	02-Nov-22 15:10
SW - 9	H225167-27	Soil	02-Nov-22 10:00	02-Nov-22 15:10

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

SW - 10	H225167-28	Soil	02-Nov-22 10:00	02-Nov-22 15:10
SW - 11	H225167-29	Soil	02-Nov-22 10:00	02-Nov-22 15:10
SW - 12	H225167-30	Soil	02-Nov-22 10:00	02-Nov-22 15:10
SW - 13	H225167-31	Soil	02-Nov-22 10:00	02-Nov-22 15:10
SW - 14	H225167-32	Soil	02-Nov-22 10:00	02-Nov-22 15:10
SW - 15	H225167-33	Soil	02-Nov-22 10:00	02-Nov-22 15:10

01/19/23 - Client changed the sample IDs on 01-13 (see COC). This is the revised report and will replace the one sent on 11/04/22.

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**CS - 1 4.5'**  
**H225167-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	96.0		16.0	mg/kg	4	2110329	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2110306	JH	03-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110306	JH	03-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2110306	JH	03-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2110306	JH	03-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2110306	JH	03-Nov-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 85.6 % 69.9-140 2110306 JH 03-Nov-22 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	

Surrogate: 1-Chlorooctane 81.3 % 45.3-161 2110253 MS 03-Nov-22 8015B

Surrogate: 1-Chlorooctadecane 93.1 % 46.3-178 2110253 MS 03-Nov-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**CS - 2 4.5'**  
**H225167-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>384</b>		16.0	mg/kg	4	2110329	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2110306	JH	03-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110306	JH	03-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2110306	JH	03-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2110306	JH	03-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2110306	JH	03-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			87.9 %		69.9-140	2110306	JH	03-Nov-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			89.7 %		45.3-161	2110253	MS	03-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			101 %		46.3-178	2110253	MS	03-Nov-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**CS - 3 4.5'**  
**H225167-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>384</b>		16.0	mg/kg	4	2110329	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2110307	JH/	03-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			100 %		69.9-140	2110307	JH/	03-Nov-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			99.9 %		45.3-161	2110253	MS	03-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			114 %		46.3-178	2110253	MS	03-Nov-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**CS - 4 4.5'**  
**H225167-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>1060</b>		16.0	mg/kg	4	2110329	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2110307	JH/	03-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.4 %		69.9-140	2110307	JH/	03-Nov-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			84.7 %		45.3-161	2110253	MS	03-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			95.2 %		46.3-178	2110253	MS	03-Nov-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**CS - 5 4.5'**  
**H225167-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>400</b>		16.0	mg/kg	4	2110329	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2110307	JH/	03-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.2 %		69.9-140	2110307	JH/	03-Nov-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			92.2 %		45.3-161	2110253	MS	03-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			104 %		46.3-178	2110253	MS	03-Nov-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**CS - 6 4.5'**  
**H225167-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>96.0</b>		16.0	mg/kg	4	2110329	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2110307	JH/	03-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			97.5 %		69.9-140	2110307	JH/	03-Nov-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			91.1 %		45.3-161	2110253	MS	03-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			102 %		46.3-178	2110253	MS	03-Nov-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**CS - 7 4.5'**  
**H225167-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	2110329	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2110307	JH/	03-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.0 %	69.9-140		2110307	JH/	03-Nov-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			83.5 %	45.3-161		2110253	MS	03-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			96.6 %	46.3-178		2110253	MS	03-Nov-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**CS - 8 4.5'**  
**H225167-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>224</b>		16.0	mg/kg	4	2110329	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2110307	JH/	03-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			100 %	69.9-140		2110307	JH/	03-Nov-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			83.1 %	45.3-161		2110253	MS	03-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			95.1 %	46.3-178		2110253	MS	03-Nov-22	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**CS - 9 4.5'**  
**H225167-09 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>3920</b>		16.0	mg/kg	4	2110329	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2110307	JH/	03-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			97.1 %		69.9-140	2110307	JH/	03-Nov-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			94.5 %		45.3-161	2110253	MS	03-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			110 %		46.3-178	2110253	MS	03-Nov-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**CS - 10 4.5'**  
**H225167-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>1250</b>		16.0	mg/kg	4	2110329	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2110307	JH/	03-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			97.0 %		69.9-140	2110307	JH/	03-Nov-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.3 %		45.3-161	2110253	MS	03-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			103 %		46.3-178	2110253	MS	03-Nov-22	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**CS - 11 4.5'**  
**H225167-11 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>3760</b>		16.0	mg/kg	4	2110329	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2110307	JH/	03-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.3 %		69.9-140	2110307	JH/	03-Nov-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110253	MS	03-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			78.7 %		45.3-161	2110253	MS	03-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			91.6 %		46.3-178	2110253	MS	03-Nov-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**CS - 12 4.5'**  
**H225167-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>4080</b>		16.0	mg/kg	4	2110329	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2110307	JH/	03-Nov-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.4 %		69.9-140	2110307	JH/	03-Nov-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	

Surrogate: 1-Chlorooctane			78.5 %		45.3-161	2110254	MS	03-Nov-22	8015B	
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Surrogate: 1-Chlorooctadecane			93.3 %		46.3-178	2110254	MS	03-Nov-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**CS - 13 4.5'**  
**H225167-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>608</b>		16.0	mg/kg	4	2110329	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2110307	JH/	03-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.0 %		69.9-140	2110307	JH/	03-Nov-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			63.5 %		45.3-161	2110254	MS	03-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			73.8 %		46.3-178	2110254	MS	03-Nov-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**CS - 14 6'**  
**H225167-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>128</b>		16.0	mg/kg	4	2110329	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2110307	JH/	03-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			96.4 %		69.9-140	2110307	JH/	03-Nov-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			69.3 %		45.3-161	2110254	MS	03-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			81.0 %		46.3-178	2110254	MS	03-Nov-22	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**CS - 15 6'**  
**H225167-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>144</b>		16.0	mg/kg	4	2110329	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2110307	JH/	03-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			96.3 %		69.9-140	2110307	JH/	03-Nov-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			75.6 %		45.3-161	2110254	MS	03-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			89.4 %		46.3-178	2110254	MS	03-Nov-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**CS - 16 8'**  
**H225167-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>208</b>		16.0	mg/kg	4	2110329	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2110307	JH/	03-Nov-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	97.5 %	69.9-140	2110307	JH/	03-Nov-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	

Surrogate: 1-Chlorooctane	74.4 %	45.3-161	2110254	MS	03-Nov-22	8015B	
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Surrogate: 1-Chlorooctadecane	88.8 %	46.3-178	2110254	MS	03-Nov-22	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**CS - 17 5'**  
**H225167-17 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	2110329	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2110307	JH/	03-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			97.7 %		69.9-140	2110307	JH/	03-Nov-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			76.5 %		45.3-161	2110254	MS	03-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			90.5 %		46.3-178	2110254	MS	03-Nov-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**CS - 18 5'**  
**H225167-18 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	2110329	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2110307	JH/	03-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.2 %		69.9-140	2110307	JH/	03-Nov-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			73.7 %		45.3-161	2110254	MS	03-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			88.2 %		46.3-178	2110254	MS	03-Nov-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**SW - 1****H225167-19 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	2110333	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2110307	JH/	03-Nov-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.7 %	69.9-140		2110307	JH/	03-Nov-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	

Surrogate: 1-Chlorooctane			92.5 %	45.3-161		2110254	MS	03-Nov-22	8015B	
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Surrogate: 1-Chlorooctadecane			110 %	46.3-178		2110254	MS	03-Nov-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**SW - 2****H225167-20 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>3160</b>		16.0	mg/kg	4	2110333	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B
Toluene*	<0.050	0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B
Ethylbenzene*	<0.050	0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B
Total Xylenes*	<0.150	0.150	mg/kg	50	2110307	JH/	03-Nov-22	8021B
Total BTEX	<0.300	0.300	mg/kg	50	2110307	JH/	03-Nov-22	8021B

Surrogate: 4-Bromofluorobenzene (PID)	98.6 %	69.9-140	2110307	JH/	03-Nov-22	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B

Surrogate: 1-Chlorooctane	61.8 %	45.3-161	2110254	MS	03-Nov-22	8015B
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Surrogate: 1-Chlorooctadecane	73.7 %	46.3-178	2110254	MS	03-Nov-22	8015B
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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**SW - 3****H225167-21 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	1890		16.0	mg/kg	4	2110333	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2110307	JH/	03-Nov-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.8 %		69.9-140	2110307	JH/	03-Nov-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	

Surrogate: 1-Chlorooctane			64.5 %		45.3-161	2110254	MS	03-Nov-22	8015B	
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Surrogate: 1-Chlorooctadecane			75.6 %		46.3-178	2110254	MS	03-Nov-22	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**SW - 4****H225167-22 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	960		16.0	mg/kg	4	2110333	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2110307	JH/	03-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2110307	JH/	03-Nov-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.8 %		69.9-140	2110307	JH/	03-Nov-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	

Surrogate: 1-Chlorooctane			83.8 %		45.3-161	2110254	MS	03-Nov-22	8015B	
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Surrogate: 1-Chlorooctadecane			98.2 %		46.3-178	2110254	MS	03-Nov-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**SW - 5**  
**H225167-23 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>2840</b>		16.0	mg/kg	4	2110333	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2110308	JH	03-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			87.7 %		69.9-140	2110308	JH	03-Nov-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			67.5 %		45.3-161	2110254	MS	03-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			80.4 %		46.3-178	2110254	MS	03-Nov-22	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**SW - 6**  
**H225167-24 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	2110333	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2110308	JH	03-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			86.4 %		69.9-140	2110308	JH	03-Nov-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			57.3 %		45.3-161	2110254	MS	03-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			68.0 %		46.3-178	2110254	MS	03-Nov-22	8015B	
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\*=Accredited Analyte

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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**SW - 7****H225167-25 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	2110333	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2110308	JH	03-Nov-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			85.6 %	69.9-140		2110308	JH	03-Nov-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	

Surrogate: 1-Chlorooctane			79.6 %	45.3-161		2110254	MS	03-Nov-22	8015B	
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Surrogate: 1-Chlorooctadecane			93.1 %	46.3-178		2110254	MS	03-Nov-22	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**SW - 8****H225167-26 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	1150		16.0	mg/kg	4	2110333	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2110308	JH	03-Nov-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			85.6 %		69.9-140	2110308	JH	03-Nov-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	

Surrogate: 1-Chlorooctane			72.2 %		45.3-161	2110254	MS	03-Nov-22	8015B	
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Surrogate: 1-Chlorooctadecane			84.6 %		46.3-178	2110254	MS	03-Nov-22	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**SW - 9****H225167-27 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	768		16.0	mg/kg	4	2110333	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2110308	JH	03-Nov-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			84.3 %	69.9-140		2110308	JH	03-Nov-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	

Surrogate: 1-Chlorooctane			61.9 %	45.3-161		2110254	MS	03-Nov-22	8015B	
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Surrogate: 1-Chlorooctadecane			72.0 %	46.3-178		2110254	MS	03-Nov-22	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**SW - 10**  
**H225167-28 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>1410</b>		16.0	mg/kg	4	2110333	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2110308	JH	03-Nov-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			85.0 %	69.9-140		2110308	JH	03-Nov-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	

Surrogate: 1-Chlorooctane			72.5 %	45.3-161		2110254	MS	03-Nov-22	8015B	
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Surrogate: 1-Chlorooctadecane			87.4 %	46.3-178		2110254	MS	03-Nov-22	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**SW - 11**  
**H225167-29 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>992</b>		16.0	mg/kg	4	2110333	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2110308	JH	03-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			86.4 %		69.9-140	2110308	JH	03-Nov-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			89.6 %		45.3-161	2110254	MS	03-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			105 %		46.3-178	2110254	MS	03-Nov-22	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**SW - 12**  
**H225167-30 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>4200</b>		16.0	mg/kg	4	2110333	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2110308	JH	03-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			85.3 %		69.9-140	2110308	JH	03-Nov-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			93.1 %		45.3-161	2110254	MS	03-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			110 %		46.3-178	2110254	MS	03-Nov-22	8015B	
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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**SW - 13**  
**H225167-31 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>896</b>		16.0	mg/kg	4	2110333	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2110308	JH	03-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			86.0 %		69.9-140	2110308	JH	03-Nov-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110254	MS	03-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			83.3 %		45.3-161	2110254	MS	03-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			98.2 %		46.3-178	2110254	MS	03-Nov-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**SW - 14**  
**H225167-32 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>192</b>		16.0	mg/kg	4	2110333	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2110308	JH	03-Nov-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	88.6 %	69.9-140	2110308	JH	03-Nov-22	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2110256	MS	03-Nov-22	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2110256	MS	03-Nov-22	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2110256	MS	03-Nov-22	8015B

Surrogate: 1-Chlorooctane	84.9 %	45.3-161	2110256	MS	03-Nov-22	8015B
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Surrogate: 1-Chlorooctadecane	89.4 %	46.3-178	2110256	MS	03-Nov-22	8015B
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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**SW - 15**  
**H225167-33 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>144</b>		16.0	mg/kg	4	2110333	GM	03-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2110308	JH	03-Nov-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2110308	JH	03-Nov-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	86.5 %	69.9-140	2110308	JH	03-Nov-22	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2110256	MS	03-Nov-22	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2110256	MS	03-Nov-22	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2110256	MS	03-Nov-22	8015B

Surrogate: 1-Chlorooctane	94.0 %	45.3-161	2110256	MS	03-Nov-22	8015B
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Surrogate: 1-Chlorooctadecane	98.8 %	46.3-178	2110256	MS	03-Nov-22	8015B
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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2110329 - 1:4 DI Water****Blank (2110329-BLK1)**

Prepared &amp; Analyzed: 03-Nov-22

Chloride	ND	16.0	mg/kg						
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**LCS (2110329-BS1)**

Prepared &amp; Analyzed: 03-Nov-22

Chloride	432	16.0	mg/kg	400	108	80-120			
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**LCS Dup (2110329-BSD1)**

Prepared &amp; Analyzed: 03-Nov-22

Chloride	432	16.0	mg/kg	400	108	80-120	0.00	20	
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**Batch 2110333 - 1:4 DI Water****Blank (2110333-BLK1)**

Prepared &amp; Analyzed: 03-Nov-22

Chloride	ND	16.0	mg/kg						
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**LCS (2110333-BS1)**

Prepared &amp; Analyzed: 03-Nov-22

Chloride	416	16.0	mg/kg	400	104	80-120			
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**LCS Dup (2110333-BSD1)**

Prepared &amp; Analyzed: 03-Nov-22

Chloride	432	16.0	mg/kg	400	108	80-120	3.77	20	
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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2110306 - Volatiles****Blank (2110306-BLK1)**

Prepared &amp; Analyzed: 03-Nov-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		88.4	69.9-140			

**LCS (2110306-BS1)**

Prepared &amp; Analyzed: 03-Nov-22

Benzene	1.80	0.050	mg/kg	2.00		90.1	83.4-122			
Toluene	2.05	0.050	mg/kg	2.00		102	84.2-126			
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	84.2-121			
m,p-Xylene	4.23	0.100	mg/kg	4.00		106	89.9-126			
o-Xylene	2.00	0.050	mg/kg	2.00		99.9	84.3-123			
Total Xylenes	6.23	0.150	mg/kg	6.00		104	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0419		mg/kg	0.0500		83.9	69.9-140			

**LCS Dup (2110306-BSD1)**

Prepared &amp; Analyzed: 03-Nov-22

Benzene	1.86	0.050	mg/kg	2.00		92.8	83.4-122	2.93	12.6	
Toluene	2.08	0.050	mg/kg	2.00		104	84.2-126	1.63	13.3	
Ethylbenzene	2.08	0.050	mg/kg	2.00		104	84.2-121	1.72	13.9	
m,p-Xylene	4.27	0.100	mg/kg	4.00		107	89.9-126	0.812	13.6	
o-Xylene	1.98	0.050	mg/kg	2.00		99.0	84.3-123	0.949	14.1	
Total Xylenes	6.25	0.150	mg/kg	6.00		104	89.1-124	0.251	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0415		mg/kg	0.0500		83.0	69.9-140			

**Batch 2110307 - Volatiles****Blank (2110307-BLK1)**

Prepared &amp; Analyzed: 03-Nov-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2110307 - Volatiles****Blank (2110307-BLK1)**

Prepared &amp; Analyzed: 03-Nov-22

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		99.7	69.9-140			

**LCS (2110307-BS1)**

Prepared &amp; Analyzed: 03-Nov-22

Benzene	1.79	0.050	mg/kg	2.00		89.5	83.4-122			
Toluene	1.96	0.050	mg/kg	2.00		98.2	84.2-126			
Ethylbenzene	2.00	0.050	mg/kg	2.00		100	84.2-121			
m,p-Xylene	4.16	0.100	mg/kg	4.00		104	89.9-126			
o-Xylene	2.04	0.050	mg/kg	2.00		102	84.3-123			
Total Xylenes	6.20	0.150	mg/kg	6.00		103	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0484		mg/kg	0.0500		96.7	69.9-140			

**LCS Dup (2110307-BS1)**

Prepared &amp; Analyzed: 03-Nov-22

Benzene	1.81	0.050	mg/kg	2.00		90.7	83.4-122	1.34	12.6	
Toluene	2.01	0.050	mg/kg	2.00		100	84.2-126	2.16	13.3	
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	84.2-121	1.72	13.9	
m,p-Xylene	4.18	0.100	mg/kg	4.00		105	89.9-126	0.680	13.6	
o-Xylene	2.08	0.050	mg/kg	2.00		104	84.3-123	1.70	14.1	
Total Xylenes	6.26	0.150	mg/kg	6.00		104	89.1-124	1.02	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0494		mg/kg	0.0500		98.7	69.9-140			

**Batch 2110308 - Volatiles****Blank (2110308-BLK1)**

Prepared &amp; Analyzed: 03-Nov-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		86.7	69.9-140			

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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2110308 - Volatiles****LCS (2110308-BS1)**

Prepared &amp; Analyzed: 03-Nov-22

Benzene	1.79	0.050	mg/kg	2.00		89.5	83.4-122		
Toluene	2.03	0.050	mg/kg	2.00		102	84.2-126		
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	84.2-121		
m,p-Xylene	4.20	0.100	mg/kg	4.00		105	89.9-126		
o-Xylene	2.00	0.050	mg/kg	2.00		99.8	84.3-123		
Total Xylenes	6.20	0.150	mg/kg	6.00		103	89.1-124		

Surrogate: 4-Bromofluorobenzene (PID)

0.0421

mg/kg

0.0500

84.3

69.9-140

**LCS Dup (2110308-BSD1)**

Prepared &amp; Analyzed: 03-Nov-22

Benzene	1.74	0.050	mg/kg	2.00		87.2	83.4-122	2.59	12.6
Toluene	2.00	0.050	mg/kg	2.00		100	84.2-126	1.52	13.3
Ethylbenzene	2.01	0.050	mg/kg	2.00		100	84.2-121	1.58	13.9
m,p-Xylene	4.14	0.100	mg/kg	4.00		103	89.9-126	1.58	13.6
o-Xylene	1.97	0.050	mg/kg	2.00		98.6	84.3-123	1.16	14.1
Total Xylenes	6.11	0.150	mg/kg	6.00		102	89.1-124	1.44	13.4

Surrogate: 4-Bromofluorobenzene (PID)

0.0428

mg/kg

0.0500

85.6

69.9-140

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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2110253 - General Prep - Organics****Blank (2110253-BLK1)**

Prepared: 02-Nov-22 Analyzed: 03-Nov-22

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	49.7		mg/kg	50.0		99.3	45.3-161		
Surrogate: 1-Chlorooctadecane	56.0		mg/kg	50.0		112	46.3-178		

**LCS (2110253-BS1)**

Prepared: 02-Nov-22 Analyzed: 03-Nov-22

GRO C6-C10	196	10.0	mg/kg	200		98.1	76.8-124		
DRO >C10-C28	183	10.0	mg/kg	200		91.5	74.9-127		
Total TPH C6-C28	379	10.0	mg/kg	400		94.8	77.5-124		
Surrogate: 1-Chlorooctane	53.7		mg/kg	50.0		107	45.3-161		
Surrogate: 1-Chlorooctadecane	63.6		mg/kg	50.0		127	46.3-178		

**LCS Dup (2110253-BS1)**

Prepared: 02-Nov-22 Analyzed: 03-Nov-22

GRO C6-C10	195	10.0	mg/kg	200		97.3	76.8-124	0.807	17.2
DRO >C10-C28	179	10.0	mg/kg	200		89.5	74.9-127	2.23	18.6
Total TPH C6-C28	373	10.0	mg/kg	400		93.4	77.5-124	1.49	17.6
Surrogate: 1-Chlorooctane	51.9		mg/kg	50.0		104	45.3-161		
Surrogate: 1-Chlorooctadecane	60.2		mg/kg	50.0		120	46.3-178		

**Batch 2110254 - General Prep - Organics****Blank (2110254-BLK1)**

Prepared: 02-Nov-22 Analyzed: 03-Nov-22

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	41.9		mg/kg	50.0		83.8	45.3-161		
Surrogate: 1-Chlorooctadecane	48.9		mg/kg	50.0		97.7	46.3-178		

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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2110254 - General Prep - Organics****LCS (2110254-BS1)**

Prepared: 02-Nov-22 Analyzed: 03-Nov-22

GRO C6-C10	186	10.0	mg/kg	200		93.2	76.8-124		
DRO >C10-C28	187	10.0	mg/kg	200		93.4	74.9-127		
Total TPH C6-C28	373	10.0	mg/kg	400		93.3	77.5-124		
Surrogate: 1-Chlorooctane	47.1		mg/kg	50.0		94.2	45.3-161		
Surrogate: 1-Chlorooctadecane	58.0		mg/kg	50.0		116	46.3-178		

**LCS Dup (2110254-BS1)**

Prepared: 02-Nov-22 Analyzed: 03-Nov-22

GRO C6-C10	190	10.0	mg/kg	200		94.8	76.8-124	1.71	17.2
DRO >C10-C28	191	10.0	mg/kg	200		95.7	74.9-127	2.44	18.6
Total TPH C6-C28	381	10.0	mg/kg	400		95.3	77.5-124	2.07	17.6
Surrogate: 1-Chlorooctane	46.1		mg/kg	50.0		92.3	45.3-161		
Surrogate: 1-Chlorooctadecane	55.9		mg/kg	50.0		112	46.3-178		

**Batch 2110256 - General Prep - Organics****Blank (2110256-BLK1)**

Prepared: 02-Nov-22 Analyzed: 03-Nov-22

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	44.4		mg/kg	50.0		88.8	45.3-161		
Surrogate: 1-Chlorooctadecane	46.3		mg/kg	50.0		92.6	46.3-178		

**LCS (2110256-BS1)**

Prepared: 02-Nov-22 Analyzed: 03-Nov-22

GRO C6-C10	182	10.0	mg/kg	200		91.1	76.8-124		
DRO >C10-C28	182	10.0	mg/kg	200		91.0	74.9-127		
Total TPH C6-C28	364	10.0	mg/kg	400		91.1	77.5-124		
Surrogate: 1-Chlorooctane	47.8		mg/kg	50.0		95.6	45.3-161		
Surrogate: 1-Chlorooctadecane	51.9		mg/kg	50.0		104	46.3-178		

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Jan-23 16:57

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2110256 - General Prep - Organics****LCS Dup (2110256-BSD1)**

Prepared: 02-Nov-22 Analyzed: 03-Nov-22

GRO C6-C10	186	10.0	mg/kg	200		93.2	76.8-124	2.28	17.2
DRO >C10-C28	185	10.0	mg/kg	200		92.6	74.9-127	1.70	18.6
Total TPH C6-C28	372	10.0	mg/kg	400		92.9	77.5-124	1.99	17.6
Surrogate: 1-Chlorooctane	48.7		mg/kg	50.0		97.4	45.3-161		
Surrogate: 1-Chlorooctadecane	52.0		mg/kg	50.0		104	46.3-178		

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

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Celey D. Keene, Lab Director/Quality Manager





Chain of Custody

Page 1 of 4

Page 45 of 48

Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	Wesley.Mathews@dm.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"/> PRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Ichabod Water Booster Station	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST										Preservative Codes	
Project Number:	226079	Due Date:	48 Hr													None: NO	DI Water: H <sub>2</sub> O
Project Location:	Lee Co, NM	TAT starts the day received by the lab, if received by 4:30pm													Cool: Cool	MeOH: Me	
Sample's Name:	Kenny Han														HCL: HC	HNO <sub>3</sub> : HN	
PO #:	21060585														H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na	
SAMPLE RECEIPT	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											H <sub>3</sub> PO <sub>4</sub> : HP	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	113											NaHSO <sub>4</sub> : NABIS			
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	-0.6°C											Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>			
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	25.6°C											Zn Acetate+NaOH: Zn			
Total Containers:	33	Corrected Temperature:	25.0°C											NaOH+Ascorbic Acid: SACP			

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters										Sample Comments
CS-1 4.5'	11/2/2022	10am	/		Comp	1	/	/	/								
CS-2 4.5'	11/2/2022	10am	/		Comp	1	/	/	/								
CS-3 4.5'	11/2/2022	10am	/		Comp	1	/	/	/								
CS-4 4.5'	11/2/2022	10am	/		Comp	1	/	/	/								
CS-5 4.5'	11/2/2022	10am	/		Comp	1	/	/	/								
CS-6 4.5'	11/2/2022	10am	/		Comp	1	/	/	/								
CS-7 4.5'	11/2/2022	10am	/		Comp	1	/	/	/								
CS-8 4.5'	11/2/2022	10am	/		Comp	1	/	/	/								
CS-9 4.5'	11/2/2022	10am	/		Comp	1	/	/	/								
CS-10 4.5'	11/2/2022	10am	/		Comp	1	/	/	/								

Additional Comments: \* Customer requested Depth changes. To 11/19/23

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>Wesley Mathews</i>	<i>Wesley Mathews</i>	11-2-22 1510	2		
3			4		
5			6		





## Chain of Custody

Work Order No: 1025167-1Page 2 of 4

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Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	Wesley.Mathews@devon.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: I <input type="checkbox"/> 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:	

Project Name:	Ichabod Water Booster Station	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST												Preservative Codes		
Project Number:	226079	Due Date:	48 Hr															None: NO	DI Water: H <sub>2</sub> O	
Project Location:	Lea Co, NM																	Cool: Cool	MeOH: Me	
Sampler's Name:	Kenny Han	TAT starts the day received by the lab, if received by 4:30pm																HCL: HC	HNO <sub>3</sub> : HN	
PO #:	21060585																	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	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"/>													H <sub>3</sub> PO <sub>4</sub> : HP		
Received In tact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	115															NaHSO <sub>4</sub> : NABIS		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	-0.62															Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	36.62															Zn Acetate+NaOH: Zn		
Total Containers:	33	Corrected Temperature:	36.02															NaOH+Ascorbic Acid: SAPC		
Sample Identification	11/2/2022	Time	10am	Soil	Water	Grab/Comp	# of Cont													Sample Comments
CS-11 4' 4.5'	11/2/2022	10am	/		Comp	1	/	/	/	/	/	/	/	/	/	/				
CS-12 4' 4.5'	11/2/2022	10am	/		Comp	1	/	/	/	/	/	/	/	/	/	/				
CS-13 4' 4.5'	11/2/2022	10am	/		Comp	1	/	/	/	/	/	/	/	/	/	/				
CS-14 6'	11/2/2022	10am	/		Comp	1	/	/	/	/	/	/	/	/	/	/				
CS-15 6'	11/2/2022	10am	/		Comp	1	/	/	/	/	/	/	/	/	/	/				
CS-16 8'	11/2/2022	10am	/		Comp	1	/	/	/	/	/	/	/	/	/	/				
CS-17 5'	11/2/2022	10am	/		Comp	1	/	/	/	/	/	/	/	/	/	/				
CS-18 5'	11/2/2022	10am	/		Comp	1	/	/	/	/	/	/	/	/	/	/				
SW-1	11/2/2022	10am	/		Comp	1	/	/	/	/	/	/	/	/	/	/				
SW-2	11/2/2022	10am	/		Comp	1	/	/	/	/	/	/	/	/	/	/				

## Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>[Signature]</u>	<u>[Signature]</u>	11-2-22 1510			





## Chain of Custody

Work Order No: HA25107-1-Page 3 of 4

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Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	Wesley.Mathews@devon.com

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"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Ichabod Water Booster Station	Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes				
Project Number:	226079	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush															None: NO Cool: Cool HCL: HC H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC			
Project Location:	Lea Co. NM	Due Date:	48 Hr																		
Sampler's Name:	Kenny Han	TAT starts the day received by the lab, if received by 4:30pm																			
PO #:	21060585																				
SAMPLE RECEIPT				Parameters																	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	113																		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	-0.6°C																		
Total Containers:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	25.6°C																		
		Corrected Temperature:	25.0°C																		
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments		
SW-3	11/2/2022	10am	/	/	Comp	1	/	/	/	/	/	/	/	/	/	/					
SW-4	11/2/2022	10am	/	/	Comp	1	/	/	/	/	/	/	/	/	/	/					
SW-5	11/2/2022	10am	/	/	Comp	1	/	/	/	/	/	/	/	/	/	/					
SW-6	11/2/2022	10am	/	/	Comp	1	/	/	/	/	/	/	/	/	/	/					
SW-7	11/2/2022	10am	/	/	Comp	1	/	/	/	/	/	/	/	/	/	/					
SW-8	11/2/2022	10am	/	/	Comp	1	/	/	/	/	/	/	/	/	/	/					
SW-9	11/2/2022	10am	/	/	Comp	1	/	/	/	/	/	/	/	/	/	/					
SW-10	11/2/2022	10am	/	/	Comp	1	/	/	/	/	/	/	/	/	/	/					
SW-11	11/2/2022	10am	/	/	Comp	1	/	/	/	/	/	/	/	/	/	/					
SW-12	11/2/2022	10am	/	/	Comp	1	/	/	/	/	/	/	/	/	/	/					

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>Wesley Mathews</u>	<u>Wesley Mathews</u>	11-2-22 1510			





Chain of Custody

Work Order No: 1825167-1-3

Page 4 of 4

Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	Wesley.Mathews@devon.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> RRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	State of Project:
Reporting Level I <input type="checkbox"/> 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:

Project Name:		Ichabod Water Booster Station		Turn Around		Pres. Code	ANALYSIS REQUEST										Preservative Codes																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Project Number:	226079	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush	Due Date:	48 Hr												None: NO	DI Water: H <sub>2</sub> O																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
Project Location	Lea Co, NM			TAT starts the day received by the lab, if received by 4:30pm											Cool: Cool	MeOH: Me																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Sampler's Name:	Kenny Han													HCL: HC	HNO <sub>3</sub> : HN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
PO #:	21060585													H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	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:	113		BTEX 8021B																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Cooler Custody Seals:			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	-0.63		TPH 8015M ( GRO + DRO + MRO)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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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>[Signature]</i>	<i>[Signature]</i>	11-2-22 1510	2		
3			4		
5			6		

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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December 19, 2022

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: ICHABOD WATER BOOSTER STATION

Enclosed are the results of analyses for samples received by the laboratory on 12/15/22 16:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at

[www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Dec-22 11:01

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW - 16	H225939-01	Soil	13-Dec-22 00:00	15-Dec-22 16:10
SW - 17	H225939-02	Soil	13-Dec-22 00:00	15-Dec-22 16:10
SW - 18	H225939-03	Soil	13-Dec-22 00:00	15-Dec-22 16:10
SW - 19	H225939-04	Soil	13-Dec-22 00:00	15-Dec-22 16:10
SW - 20	H225939-05	Soil	13-Dec-22 00:00	15-Dec-22 16:10
SW - 21	H225939-06	Soil	13-Dec-22 00:00	15-Dec-22 16:10
SW - 22	H225939-07	Soil	13-Dec-22 00:00	15-Dec-22 16:10
SW - 23	H225939-08	Soil	13-Dec-22 00:00	15-Dec-22 16:10
SW - 24	H225939-09	Soil	13-Dec-22 00:00	15-Dec-22 16:10
SW - 25	H225939-10	Soil	13-Dec-22 00:00	15-Dec-22 16:10

12/19/22 - Client changed the sample IDs (see COC). This is the revised report and will replace the one sent on 12/16/22.

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Dec-22 11:01

**SW - 16****H225939-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	1170		16.0	mg/kg	4	2121619	GM	16-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121539	JH	15-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	69.9-140		2121539	JH	15-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121538	MS	15-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121538	MS	15-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121538	MS	15-Dec-22	8015B	

Surrogate: 1-Chlorooctane			101 %	45.3-161		2121538	MS	15-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			112 %	46.3-178		2121538	MS	15-Dec-22	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Dec-22 11:01

**SW - 17****H225939-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	976		16.0	mg/kg	4	2121619	GM	16-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121539	JH	15-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	69.9-140		2121539	JH	15-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121538	MS	15-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121538	MS	15-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121538	MS	15-Dec-22	8015B	

Surrogate: 1-Chlorooctane			99.3 %	45.3-161		2121538	MS	15-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			116 %	46.3-178		2121538	MS	15-Dec-22	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Dec-22 11:01

**SW - 18**  
**H225939-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>1330</b>		16.0	mg/kg	4	2121619	GM	16-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121539	JH	15-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		104 %		69.9-140		2121539	JH	15-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121538	MS	15-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121538	MS	15-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121538	MS	15-Dec-22	8015B	

Surrogate: 1-Chlorooctane		95.5 %		45.3-161		2121538	MS	15-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane		113 %		46.3-178		2121538	MS	15-Dec-22	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Dec-22 11:01

**SW - 19****H225939-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	464		16.0	mg/kg	4	2121619	GM	16-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121539	JH	15-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	69.9-140		2121539	JH	15-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121538	MS	15-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121538	MS	15-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121538	MS	15-Dec-22	8015B	

Surrogate: 1-Chlorooctane			109 %	45.3-161		2121538	MS	15-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			130 %	46.3-178		2121538	MS	15-Dec-22	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Dec-22 11:01

**SW - 20****H225939-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	448		16.0	mg/kg	4	2121619	GM	16-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121539	JH	15-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	69.9-140		2121539	JH	15-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121538	MS	16-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121538	MS	16-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121538	MS	16-Dec-22	8015B	

Surrogate: 1-Chlorooctane			105 %	45.3-161		2121538	MS	16-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			122 %	46.3-178		2121538	MS	16-Dec-22	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Dec-22 11:01

**SW - 21****H225939-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	1730		16.0	mg/kg	4	2121619	GM	16-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121539	JH	15-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	69.9-140		2121539	JH	15-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121538	MS	16-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121538	MS	16-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121538	MS	16-Dec-22	8015B	

Surrogate: 1-Chlorooctane			100 %	45.3-161		2121538	MS	16-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			116 %	46.3-178		2121538	MS	16-Dec-22	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Dec-22 11:01

**SW - 22****H225939-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	2121619	GM	16-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121539	JH	15-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	69.9-140		2121539	JH	15-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121538	MS	16-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121538	MS	16-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121538	MS	16-Dec-22	8015B	

Surrogate: 1-Chlorooctane			94.7 %	45.3-161		2121538	MS	16-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			112 %	46.3-178		2121538	MS	16-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Dec-22 11:01

**SW - 23****H225939-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>1010</b>		16.0	mg/kg	4	2121619	GM	16-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2121539	JH	15-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	106 %	69.9-140	2121539	JH	15-Dec-22	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2121538	MS	16-Dec-22	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2121538	MS	16-Dec-22	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2121538	MS	16-Dec-22	8015B

Surrogate: 1-Chlorooctane	84.2 %	45.3-161	2121538	MS	16-Dec-22	8015B
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Surrogate: 1-Chlorooctadecane	98.1 %	46.3-178	2121538	MS	16-Dec-22	8015B
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Dec-22 11:01

**SW - 24****H225939-09 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>1090</b>		16.0	mg/kg	4	2121619	GM	16-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2121539	JH	15-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	105 %	69.9-140			2121539	JH	15-Dec-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2121538	MS	16-Dec-22	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2121538	MS	16-Dec-22	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2121538	MS	16-Dec-22	8015B	

Surrogate: 1-Chlorooctane	96.4 %	45.3-161			2121538	MS	16-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane	108 %	46.3-178			2121538	MS	16-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Dec-22 11:01

**SW - 25**  
**H225939-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	2121619	GM	16-Dec-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2121539	JH	15-Dec-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2121539	JH	15-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	106 %	69.9-140	2121539	JH	15-Dec-22	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2121538	MS	16-Dec-22	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2121538	MS	16-Dec-22	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2121538	MS	16-Dec-22	8015B

Surrogate: 1-Chlorooctane	106 %	45.3-161	2121538	MS	16-Dec-22	8015B
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Surrogate: 1-Chlorooctadecane	125 %	46.3-178	2121538	MS	16-Dec-22	8015B
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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Dec-22 11:01

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2121619 - 1:4 DI Water</b>									
<b>Blank (2121619-BLK1)</b>									
					Prepared & Analyzed: 16-Dec-22				
Chloride	ND	16.0	mg/kg						
<b>LCS (2121619-BS1)</b>									
					Prepared & Analyzed: 16-Dec-22				
Chloride	416	16.0	mg/kg	400	104	80-120			
<b>LCS Dup (2121619-BSD1)</b>									
					Prepared & Analyzed: 16-Dec-22				
Chloride	432	16.0	mg/kg	400	108	80-120	3.77	20	

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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Dec-22 11:01

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2121539 - Volatiles****Blank (2121539-BLK1)**

Prepared &amp; Analyzed: 15-Dec-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0526		mg/kg	0.0500		105	69.9-140			

**LCS (2121539-BS1)**

Prepared &amp; Analyzed: 15-Dec-22

Benzene	2.12	0.050	mg/kg	2.00		106	83.4-122			
Toluene	2.24	0.050	mg/kg	2.00		112	84.2-126			
Ethylbenzene	2.19	0.050	mg/kg	2.00		110	84.2-121			
m,p-Xylene	4.58	0.100	mg/kg	4.00		114	89.9-126			
o-Xylene	2.14	0.050	mg/kg	2.00		107	84.3-123			
Total Xylenes	6.72	0.150	mg/kg	6.00		112	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0495		mg/kg	0.0500		99.1	69.9-140			

**LCS Dup (2121539-BS1)**

Prepared &amp; Analyzed: 15-Dec-22

Benzene	2.13	0.050	mg/kg	2.00		106	83.4-122	0.183	12.6	
Toluene	2.25	0.050	mg/kg	2.00		113	84.2-126	0.760	13.3	
Ethylbenzene	2.20	0.050	mg/kg	2.00		110	84.2-121	0.265	13.9	
m,p-Xylene	4.57	0.100	mg/kg	4.00		114	89.9-126	0.109	13.6	
o-Xylene	2.12	0.050	mg/kg	2.00		106	84.3-123	0.872	14.1	
Total Xylenes	6.69	0.150	mg/kg	6.00		112	89.1-124	0.351	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0510		mg/kg	0.0500		102	69.9-140			

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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ICHABOD WATER BOOSTER STATI  
Project Number: 226079  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
19-Dec-22 11:01

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2121538 - General Prep - Organics****Blank (2121538-BLK1)**

Prepared &amp; Analyzed: 15-Dec-22

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	51.9		mg/kg	50.0		104	45.3-161		
Surrogate: 1-Chlorooctadecane	59.2		mg/kg	50.0		118	46.3-178		

**LCS (2121538-BS1)**

Prepared: 15-Dec-22 Analyzed: 16-Dec-22

GRO C6-C10	208	10.0	mg/kg	200		104	76.8-124		
DRO >C10-C28	202	10.0	mg/kg	200		101	74.9-127		
Total TPH C6-C28	409	10.0	mg/kg	400		102	77.5-124		
Surrogate: 1-Chlorooctane	47.6		mg/kg	50.0		95.2	45.3-161		
Surrogate: 1-Chlorooctadecane	52.1		mg/kg	50.0		104	46.3-178		

**LCS Dup (2121538-BSD1)**

Prepared &amp; Analyzed: 15-Dec-22

GRO C6-C10	225	10.0	mg/kg	200		113	76.8-124	8.09	17.2
DRO >C10-C28	241	10.0	mg/kg	200		121	74.9-127	17.8	18.6
Total TPH C6-C28	466	10.0	mg/kg	400		117	77.5-124	13.0	17.6
Surrogate: 1-Chlorooctane	63.4		mg/kg	50.0		127	45.3-161		
Surrogate: 1-Chlorooctadecane	73.1		mg/kg	50.0		146	46.3-178		

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---

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---

### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



## Chain of Custody

Work Order No: H225939Page 1 of 1

Page 17 of 17

Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	Wesley.Mathews@devon.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:	

Project Name:	Ichabod Water Booster	Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes				
Project Number:	226079	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush															None: NO	DI Water: H <sub>2</sub> O		
Project Location:	Lea Co, NM	Due Date:	24hr															Cool: Cool	MeOH: Me		
Sampler's Name:	Jordan Tyner	TAT starts the day received by the lab, if received by 4:30pm																HCL: HC	HNO <sub>3</sub> : HN		
PO #:	21060585																H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na			
<b>SAMPLE RECEIPT</b>		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													H <sub>3</sub> PO <sub>4</sub> : HP			
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:																NaHSO <sub>4</sub> : NABIS			
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:																Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>			
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	-13.0°C															Zn Acetate+NaOH: Zn			
Total Containers:	10	Corrected Temperature:	-13.6°C															NaOH+Ascorbic Acid: SAPC			
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
SW-8-16		12/13/2022		X		Comp	1	X	X	X											
SW-8-17		12/13/2022		X		Comp	1	X	X	X											
SW-8-18		12/13/2022		X		Comp	1	X	X	X											
SW-8-19		12/13/2022		X		Comp	1	X	X	X											
SW-8-20		12/13/2022		X		Comp	1	X	X	X											
SW-8-21		12/13/2022		X		Comp	1	X	X	X											
SW-8-22		12/13/2022		X		Comp	1	X	X	X											
SW-8-23		12/13/2022		X		Comp	1	X	X	X											
SW-8-24		12/13/2022		X		Comp	1	X	X	X											
SW-8-25		12/13/2022		X		Comp	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>[Signature]</i>	<i>[Signature]</i>	12-15-22 16:00	2		
3			4		
5			6		



Report to:  
Ethan Sessums



5796 U.S. Hwy 64  
Farmington, NM 87401

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



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

NTG-New Tech Global Environmental

Project Name: Ichabod Water Booster

Work Order: E301041

Job Number: 01058-0007

Received: 1/12/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
1/13/23

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: 1/13/23



Ethan Sessums  
911 Regional Park Dr.  
Houston, TX 77060

Project Name: Ichabod Water Booster  
Workorder: E301041  
Date Received: 1/12/2023 8:20:00AM

Ethan Sessums,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/12/2023 8:20:00AM, under the Project Name: Ichabod Water Booster.

The analytical test results summarized in this report with the Project Name: Ichabod Water Booster 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto: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](mailto: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](http://www.envirotech-inc.com)

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Sample Summary

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name:	Ichabod Water Booster	Reported:  01/13/23 11:05
	Project Number:	01058-0007	
	Project Manager:	Ethan Sessums	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW-27	E301041-01A	Soil	01/09/23	01/12/23	Glass Jar, 4 oz.
SW-28	E301041-02A	Soil	01/09/23	01/12/23	Glass Jar, 4 oz.
SW-29	E301041-03A	Soil	01/09/23	01/12/23	Glass Jar, 4 oz.
SW-30	E301041-04A	Soil	01/09/23	01/12/23	Glass Jar, 4 oz.
SW-31	E301041-05A	Soil	01/09/23	01/12/23	Glass Jar, 4 oz.
SW-32	E301041-06A	Soil	01/09/23	01/12/23	Glass Jar, 4 oz.
SW-26	E301041-07A	Soil	01/09/23	01/12/23	Glass Jar, 4 oz.



## Sample Data

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

Project Name: Ichabod Water Booster  
Project Number: 01058-0007  
Project Manager: Ethan Sessums

**Reported:**  
1/13/2023 11:05:14AM

SW-27

E301041-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2302047
Benzene	ND	0.0250	1	01/12/23	01/12/23	
Ethylbenzene	ND	0.0250	1	01/12/23	01/12/23	
Toluene	ND	0.0250	1	01/12/23	01/12/23	
o-Xylene	ND	0.0250	1	01/12/23	01/12/23	
p,m-Xylene	ND	0.0500	1	01/12/23	01/12/23	
Total Xylenes	ND	0.0250	1	01/12/23	01/12/23	
Surrogate: 4-Bromochlorobenzene-PID	98.2 %	70-130		01/12/23	01/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2302047
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/12/23	01/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.3 %	70-130		01/12/23	01/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2302054
Diesel Range Organics (C10-C28)	ND	25.0	1	01/12/23	01/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/12/23	01/12/23	
Surrogate: n-Nonane	99.3 %	50-200		01/12/23	01/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2302057
Chloride	59.9	20.0	1	01/12/23	01/12/23	



## Sample Data

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

Project Name: Ichabod Water Booster  
Project Number: 01058-0007  
Project Manager: Ethan Sessums

**Reported:**  
1/13/2023 11:05:14AM

## SW-28

## E301041-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2302047
Benzene	ND	0.0250	1	01/12/23	01/12/23	
Ethylbenzene	ND	0.0250	1	01/12/23	01/12/23	
Toluene	ND	0.0250	1	01/12/23	01/12/23	
o-Xylene	ND	0.0250	1	01/12/23	01/12/23	
p,m-Xylene	ND	0.0500	1	01/12/23	01/12/23	
Total Xylenes	ND	0.0250	1	01/12/23	01/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.4 %	70-130		01/12/23	01/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2302047
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/12/23	01/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.2 %	70-130		01/12/23	01/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2302054
Diesel Range Organics (C10-C28)	ND	25.0	1	01/12/23	01/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/12/23	01/12/23	
<i>Surrogate: n-Nonane</i>						
	89.6 %	50-200		01/12/23	01/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2302057
Chloride	151	20.0	1	01/12/23	01/12/23	



## Sample Data

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

Project Name: Ichabod Water Booster  
Project Number: 01058-0007  
Project Manager: Ethan Sessums

**Reported:**  
1/13/2023 11:05:14AM

## SW-29

## E301041-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2302047
Benzene	ND	0.0250	1	01/12/23	01/12/23	
Ethylbenzene	ND	0.0250	1	01/12/23	01/12/23	
Toluene	ND	0.0250	1	01/12/23	01/12/23	
o-Xylene	ND	0.0250	1	01/12/23	01/12/23	
p,m-Xylene	ND	0.0500	1	01/12/23	01/12/23	
Total Xylenes	ND	0.0250	1	01/12/23	01/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.4 %	70-130		01/12/23	01/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2302047
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/12/23	01/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.7 %	70-130		01/12/23	01/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2302054
Diesel Range Organics (C10-C28)	ND	25.0	1	01/12/23	01/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/12/23	01/12/23	
<i>Surrogate: n-Nonane</i>						
	87.9 %	50-200		01/12/23	01/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2302057
Chloride	37.7	20.0	1	01/12/23	01/12/23	



## Sample Data

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

Project Name: Ichabod Water Booster  
Project Number: 01058-0007  
Project Manager: Ethan Sessums

**Reported:**  
1/13/2023 11:05:14AM

## SW-30

## E301041-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2302047
Benzene	ND	0.0250	1	01/12/23	01/12/23	
Ethylbenzene	ND	0.0250	1	01/12/23	01/12/23	
Toluene	ND	0.0250	1	01/12/23	01/12/23	
o-Xylene	ND	0.0250	1	01/12/23	01/12/23	
p,m-Xylene	ND	0.0500	1	01/12/23	01/12/23	
Total Xylenes	ND	0.0250	1	01/12/23	01/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.7 %	70-130		01/12/23	01/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2302047
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/12/23	01/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.3 %	70-130		01/12/23	01/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2302054
Diesel Range Organics (C10-C28)	ND	25.0	1	01/12/23	01/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/12/23	01/12/23	
<i>Surrogate: n-Nonane</i>						
	98.0 %	50-200		01/12/23	01/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2302057
Chloride	ND	20.0	1	01/12/23	01/12/23	



## Sample Data

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

Project Name: Ichabod Water Booster  
Project Number: 01058-0007  
Project Manager: Ethan Sessums

**Reported:**  
1/13/2023 11:05:14AM

## SW-31

## E301041-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2302047
Benzene	ND	0.0250	1	01/12/23	01/12/23	
Ethylbenzene	ND	0.0250	1	01/12/23	01/12/23	
Toluene	ND	0.0250	1	01/12/23	01/12/23	
o-Xylene	ND	0.0250	1	01/12/23	01/12/23	
p,m-Xylene	ND	0.0500	1	01/12/23	01/12/23	
Total Xylenes	ND	0.0250	1	01/12/23	01/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.2 %	70-130		01/12/23	01/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2302047
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/12/23	01/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.5 %	70-130		01/12/23	01/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2302054
Diesel Range Organics (C10-C28)	ND	25.0	1	01/12/23	01/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/12/23	01/12/23	
<i>Surrogate: n-Nonane</i>						
	98.4 %	50-200		01/12/23	01/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2302057
Chloride	167	20.0	1	01/12/23	01/12/23	





## Sample Data

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

Project Name: Ichabod Water Booster  
Project Number: 01058-0007  
Project Manager: Ethan Sessums

**Reported:**  
1/13/2023 11:05:14AM

## SW-32

## E301041-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2302047
Benzene	ND	0.0250	1	01/12/23	01/12/23	
Ethylbenzene	ND	0.0250	1	01/12/23	01/12/23	
Toluene	ND	0.0250	1	01/12/23	01/12/23	
o-Xylene	ND	0.0250	1	01/12/23	01/12/23	
p,m-Xylene	ND	0.0500	1	01/12/23	01/12/23	
Total Xylenes	ND	0.0250	1	01/12/23	01/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	01/12/23	01/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2302047
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/12/23	01/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.6 %	70-130	01/12/23	01/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2302054
Diesel Range Organics (C10-C28)	ND	25.0	1	01/12/23	01/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/12/23	01/12/23	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	01/12/23	01/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2302057
Chloride	ND	20.0	1	01/12/23	01/12/23	



## Sample Data

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

Project Name: Ichabod Water Booster  
Project Number: 01058-0007  
Project Manager: Ethan Sessums

**Reported:**  
1/13/2023 11:05:14AM

## SW-26

## E301041-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2302047
Benzene	ND	0.0250	1	01/12/23	01/12/23	
Ethylbenzene	ND	0.0250	1	01/12/23	01/12/23	
Toluene	ND	0.0250	1	01/12/23	01/12/23	
o-Xylene	ND	0.0250	1	01/12/23	01/12/23	
p,m-Xylene	ND	0.0500	1	01/12/23	01/12/23	
Total Xylenes	ND	0.0250	1	01/12/23	01/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.2 %	70-130		01/12/23	01/12/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2302047
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/12/23	01/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.2 %	70-130		01/12/23	01/12/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2302054
Diesel Range Organics (C10-C28)	ND	25.0	1	01/12/23	01/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/12/23	01/12/23	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		01/12/23	01/12/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2302057
Chloride	185	20.0	1	01/12/23	01/12/23	



## QC Summary Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Ichabod Water Booster Project Number: 01058-0007 Project Manager: Ethan Sessums	Reported:  1/13/2023 11:05:14AM
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## 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
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## Blank (2302047-BLK1)

Prepared: 01/11/23 Analyzed: 01/11/23

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	7.96		8.00		99.5	70-130			

## LCS (2302047-BS1)

Prepared: 01/11/23 Analyzed: 01/11/23

Benzene	4.28	0.0250	5.00		85.7	70-130			
Ethylbenzene	4.63	0.0250	5.00		92.6	70-130			
Toluene	4.67	0.0250	5.00		93.4	70-130			
o-Xylene	4.78	0.0250	5.00		95.7	70-130			
p,m-Xylene	9.40	0.0500	10.0		94.0	70-130			
Total Xylenes	14.2	0.0250	15.0		94.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.18		8.00		102	70-130			

## LCS Dup (2302047-BSD1)

Prepared: 01/11/23 Analyzed: 01/11/23

Benzene	4.39	0.0250	5.00		87.8	70-130	2.47	20	
Ethylbenzene	4.75	0.0250	5.00		95.0	70-130	2.58	20	
Toluene	4.79	0.0250	5.00		95.8	70-130	2.56	20	
o-Xylene	4.95	0.0250	5.00		98.9	70-130	3.37	20	
p,m-Xylene	9.66	0.0500	10.0		96.6	70-130	2.78	20	
Total Xylenes	14.6	0.0250	15.0		97.4	70-130	2.98	20	
Surrogate: 4-Bromochlorobenzene-PID	8.14		8.00		102	70-130			



QC Summary Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Ichabod Water Booster Project Number: 01058-0007 Project Manager: Ethan Sessums	Reported:  1/13/2023 11:05:14AM
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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
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Blank (2302047-BLK1) Prepared: 01/11/23 Analyzed: 01/11/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.86		8.00		85.7	70-130			

LCS (2302047-BS2) Prepared: 01/11/23 Analyzed: 01/11/23

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0		92.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			

LCS Dup (2302047-BSD2) Prepared: 01/11/23 Analyzed: 01/11/23

Gasoline Range Organics (C6-C10)	44.5	20.0	50.0		89.0	70-130	4.14	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			



## QC Summary Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Ichabod Water Booster Project Number: 01058-0007 Project Manager: Ethan Sessums	<b>Reported:</b>  1/13/2023 11:05:14AM
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## 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
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## Blank (2302054-BLK1)

Prepared: 01/12/23 Analyzed: 01/12/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	57.0		50.0		114	50-200			

## LCS (2302054-BS1)

Prepared: 01/12/23 Analyzed: 01/12/23

Diesel Range Organics (C10-C28)	267	25.0	250		107	38-132			
Surrogate: <i>n</i> -Nonane	54.0		50.0		108	50-200			

## Matrix Spike (2302054-MS1)

Source: E301041-01

Prepared: 01/12/23 Analyzed: 01/12/23

Diesel Range Organics (C10-C28)	273	25.0	250	ND	109	38-132			
Surrogate: <i>n</i> -Nonane	54.6		50.0		109	50-200			

## Matrix Spike Dup (2302054-MSD1)

Source: E301041-01

Prepared: 01/12/23 Analyzed: 01/12/23

Diesel Range Organics (C10-C28)	279	25.0	250	ND	112	38-132	2.31	20	
Surrogate: <i>n</i> -Nonane	52.0		50.0		104	50-200			



QC Summary Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Ichabod Water Booster Project Number: 01058-0007 Project Manager: Ethan Sessums	Reported:  1/13/2023 11:05:14AM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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<b>Blank (2302057-BLK1)</b>					Prepared: 01/12/23 Analyzed: 01/12/23				
Chloride	ND	20.0							
<b>LCS (2302057-BS1)</b>					Prepared: 01/12/23 Analyzed: 01/13/23				
Chloride	238	20.0	250		95.2	90-110			
<b>Matrix Spike (2302057-MS1)</b>					<b>Source: E301041-01</b>		Prepared: 01/12/23 Analyzed: 01/12/23		
Chloride	322	20.0	250	59.9	105	80-120			
<b>Matrix Spike Dup (2302057-MSD1)</b>					<b>Source: E301041-01</b>		Prepared: 01/12/23 Analyzed: 01/12/23		
Chloride	319	20.0	250	59.9	104	80-120	0.799	20	

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





Definitions and Notes

NTG-New Tech Global Environmental	Project Name:	Ichabod Water Booster	
911 Regional Park Dr.	Project Number:	01058-0007	Reported:
Houston TX, 77060	Project Manager:	Ethan Sessums	01/13/23 11:05

- 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.










Work Order No: E301041  
Job # 01058-0007

Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Matthews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	<a href="mailto:Wesley.Mathews@dvn.com">Wesley.Mathews@dvn.com</a>

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐  
 State of Project:  
 Reporting: Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐  
 Deliverables: EDD ☐ AdAPt ☐ Other: ☐

[illegible]

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		2		1/11/23	10:35	2		3		1-11-23	1630
3		4		1/12/23	8:20	4		5			
5		6				6					

## Envirotech Analytical Laboratory

Printed: 1/12/2023 9:42:46AM

## 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:	01/12/23 08:20	Work Order ID:	E301041
Phone:	(281) 872-9300	Date Logged In:	01/11/23 17:14	Logged In By:	Caitlin Christian
Email:	essessums@ntglobal.com	Due Date:	01/12/23 17:00 (0 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? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
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: CourierComments/Resolution

Time sampled not provided on COC by client.

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: na

Client Instruction

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

Date



envirotech Inc.

**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 179444

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 179444
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	2/14/2023