

Incident ID	NAPP2300653555
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: 5/18/2023
email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: Robert Hamlet Date: 10/12/2023

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

Signature: Robert Hamlet Date: 10/12/2023

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>Unknown</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

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Signature: Dale Woodall Date: 5/18/2023
email: dale.woodall@dvn.com Telephone: 575-748-1838

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Received by: Jocelyn Harimon Date: 05/19/2023

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

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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

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Signature: Dale Woodall Date: 5/18/2023
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: _____ Date: _____

Printed Name: _____ Title: _____

TABLE



402 E. Wood Avenue
Carlsbad, New Mexico 88220
Tel. 432-701-2159
www.ntgenvironmental.com

May 17, 2023

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

Re: Site Characterization and Deferral/Closure Request Report
Arcturus 18 Fed Com 8H
Unit M, S17, T19S, R31E
Site Coordinates: 32.6539879, -103.8990784
Eddy County, New Mexico
Incident ID: nAPP2300653555

1. Introduction

On behalf of Devon Energy Production Company (Devon), New Tech Global Environmental, LLC (NTGE) has prepared this Site Characterization and Deferral/Closure Request Report for submittal to the New Mexico Oil Conservation Division (NMCOD) District 2 Office in Artesia, New Mexico to document site assessment, remedial action activities, and sample analysis results for the Arcturus 18 Fed Com 8H (Site). The Site is located in Unit Letter M, Section 17, of Township 19 South and Range 31 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.6539879° N latitude and -103.8990784° W longitude. The site location with respect to the nearest town is shown in Figure 1 and the topography of the area is shown in Figure 2.

2. Background

Based on the Release Notification C-141 Form, the release occurred on January 6, 2023, when a 1" nipple developed a pin hole leak releasing approximately 2 barrels (bbls) of produced water, of which 0 bbls were recovered. In addition, 10 bbls of crude oil were released, of which 5 bbls were recovered. Upon discovery, the pipeline was shut-in, and the area was secured. Fluids were recovered via a vacuum truck. Afterwards, the site was excavated with the impacted soil transported offsite to an approved disposal facility. The release area is shown in Figure 3. The Release Notification, Site Assessment/Characterization, and Closure portions of Form C-141 for incident number nAPP2300653555 are attached to the front of this report.

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Environment
For Oil & Gas
Operations

Mr. Mike Bratcher
May 17, 2023
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3. Groundwater and Site Characterization

Based on a review of the New Mexico Office of State Engineers and USGS databases, there are no known water source within a ½-mile radius of the Site. No other receptors (playas, wetlands, waterways, lakebeds, or ordinance boundaries) are located within each specific boundary or distance from the Site. According to the Karst Potential Map, the site is located within a medium Karst area. The Site characterization documentation (Points of Diversion, Karst Potential, Significant Watercourse Map, Wetlands Map, and FEMA Map) are provided in Attachment A.

NTGE characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, from the New Mexico Administrative Code (NMCA) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12).

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft)
Medium Karst	Unknown

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+MRO)	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
Notes: --- = not defined					

4. Initial Soil Delineation Assessment Summary and Findings

On January 12, 2023, NTGE conducted site assessment activities to assess the extent of impacts at the Site. A total of six (6) vertical sample points (S-1 through S-6) and nine (9) horizontal sample points (H-1 through H-9) were installed within the release area to characterize the impacts. Soil samples were collected in 0.5 ft intervals from depths ranging from 0 – 2.5 ft below ground surface (bgs) with a geotechnical hand auger. The samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA method 8021B, total petroleum hydrocarbon (TPH) by method 8015B, and chloride by EPA method 300.0 by Eurofins Laboratories in Carlsbad, New Mexico. The analytical results indicated that chloride concentrations exceeded the NMOCD regulatory limits in the areas of S-3 and H-8. Analytical results are included in Table 1, while soil boring locations are shown in Figure 3.

5. Remedial Action Activities and Confirmation/Deferral Sampling

Upon receipt of the soil assessment data, Devon contract personnel 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 ranging from 1 ft through 3 ft bgs within the release area. The excavation area is illustrated in Figure 4.

Mr. Mike Bratcher
May 17, 2023
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On March 22, 2023, NTGE personnel were onsite to complete delineation and collect deferral samples at the site. Utilizing a hand auger, NTGE personnel installed four (4) vertical delineation samples (VDS-1 through VDS-4) to a depth of five (5) ft bgs. Samples were collected at one (1) ft intervals and submitted to Cardinal Labs of Hobbs, New Mexico for analysis of TPH by 8015M, BTEX by 8021B, and chlorides by 300.0. Analysis indicated the site was delineated with depth in regard to chlorides with sample VDS-1 extending to a maximum depth of impact at four (4) ft bgs. All other analysis were below method detection limits.

On March 29, 2023, after initial excavation activities, a total of forty-three (43) excavation base confirmation samples (CS-1 through CS-43) along with twenty (20) confirmation wall samples (S-1 through S-20) were collected and submitted for analysis to ensure impacted soils were successfully removed. Analytical results indicated chloride and/or hydrocarbons concentrations exceeded NMOCD regulatory limits in the areas denoted by CS-11 through CS-20, CS-26 through CS-43, SW-5, and SW-8 through SW-11. Based on the analysis, the site required further excavation.

After further excavation activities, the site was sampled on April 12, 2023, by NTGE personnel. A total of twenty-eight (28) wall composite samples (CS-11 through CS-20 and CS-26 through CS-43) along with five (5) wall composite samples (SW-5A, SW-8A, SW-9A, SW-21 and SW-22) were collected and submitted for analysis. Analytical results indicated the extent of impacted soil had been removed, with the exception of the areas of SW-10 and SW-11. However, the two samples were delineated with deferral samples VDS-1 for SW-11 at a depth of five (5) ft bgs and with VDS-2 for SW-10 at a depth of two (2) ft bgs. Figure 4 depicts the final excavation and confirmation sampling locations, while Figure 5 details the location of deferral samples. Analytical results are found in Table 2.

Upon completion of the excavation, the site was backfilled with like source materials and the site brought up to grade.

All confirmation samples were collected every 200 square feet and submitted to Cardinal Laboratories in Hobbs, New Mexico for chemical analysis. The samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA method 8021B, total petroleum hydrocarbon (TPH) by method 8015B, and chloride by SM 4500 CL-B.

6. nAPP2300653555 Deferral Request

Devon personnel has expressed that the excavation areas of SW-10 and SW-11 cannot be expanded vertically or horizontally due to the presence of facility infrastructure (i.e., wellhead and pumpjack) around the excavation and the associated safety concerns in further encroaching on the infrastructure. The infrastructure in an around the excavation is shown on Figure 5.

On behalf of Devon, NTGE formally requests a deferral to address the remaining soil impacts (SW-10 and SW-11) at the time of facility decommissioning or in the event infrastructure modifications are made in the area that would alleviate the safety concerns, whichever is sooner.

If you have any questions regarding this letter, please contact us at (432)-701-2159.

Sincerely,
NTG Environmental

NTGE Project No.: 236740



Mr. Mike Bratcher
May 17, 2023
Page 4 of 5



Ethan Sessums
Project Manager

Attachments:

- Tables
- Figures
- Site Characterization Documentation
- Photographic Log
- Confirmation Sampling Notifications
- Laboratory Reports and Chain-of-Custody Documents

NTGE Project No.: 236740



Kellan Smith

From: Ethan Sessums
Sent: Saturday, March 25, 2023 1:30 PM
To: NTG Env Carlsbad
Subject: FW: Sampling Notification

For some reason it auto populated the wrong Carlsbad email address. Here is the forwarded message.

Ethan Sessums
Project Manager
NTG Environmental New Mexico
402 E Wood Ave, Carlsbad, NM 88220
M: 254-266-5456 W: 432-701-2159
Email: esessums@ntglobal.com
<http://www.ntgenvironmental.com/>



From: Ethan Sessums
Sent: Saturday, March 25, 2023 1:26 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: NTGE_Carlsbad@ntg.com
Subject: Sampling Notification

On behalf of DEVON, NTGE will be conducting a confirmation sampling event at the Arcturus 18-8 the associated incident # is **(nAPP2300653555)** on Wednesday the 29th 2023, around 10 am MDT.

Thanks!

Ethan Sessums
Project Manager
NTG Environmental New Mexico
402 E Wood Ave, Carlsbad, NM 88220
M: 254-266-5456 W: 432-701-2159
Email: esessums@ntglobal.com
<http://www.ntgenvironmental.com/>



Kellan Smith

From: Ethan Sessums
Sent: Monday, April 10, 2023 6:52 AM
To: Enviro, OCD, EMNRD
Cc: NTG Env Carlsbad
Subject: Sampling Notification

On behalf of DEVON, NTGE will be conducting a confirmation sampling event at the Arcturus 18-8 the associated incident # is (nAPP2300653555) on Wednesday the 12th 2023, around 10 am MDT.

Thanks!

Ethan Sessums
Project Manager
NTGE New Mexico
402 E Wood Ave, Carlsbad, NM 88220
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Email: esessums@ntglobal.com

Air Quality Compliance | EHS Management | Environmental Due Diligence & Audits | Midstream Compliance | Regulatory Compliance & Permitting | Site Assessment, Remediation & Site Closure | Water Quality & Natural Resources

INITIAL AND FINAL C-141

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	
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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

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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.	
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email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>01/12/2023</u>

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- ☒ 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: 5/18/2023
email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Incident ID	NAPP2300653555
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: 5/18/2023
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: _____ Date: _____

Printed Name: _____ Title: _____

TABLE

Table 1
Summary of Soil Analytical Data
Arcturus 18-8
Devon Energy
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	
			(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 Site (Surface to 4 feet below grade) 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	100 mg/kg	---	100 mg/kg	600 mg/kg
Initial Assessment Samples													
H-1	1/12/2023	0-6"	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	62.6
H-2	1/12/2023	0-6"	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	5.01
H-3	1/12/2023	0-6"	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	454
H-4	1/12/2023	0-6"	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	52.3	52.3	<49.8	52.3	21.8
H-5	1/12/2023	0-6"	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	328
H-6	1/12/2023	0-6"	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	6.56
H-7	1/12/2023	0-6"	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	103
H-8	1/12/2023	0-6"	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	906
H-9	1/12/2023	0-6"	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	178
S-1 (1-1.5')	1/12/2023	1.5'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	33.3
S-1 (2-2.5')	1/12/2023	2.5'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	130
S-2 (1-1.5')	1/12/2023	1.5'	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	176
S-2 (2-2.5')	1/12/2023	2.5'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	7.67
S-3 (1-1.5')	1/12/2023	1.5'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	3,200
S-3 (2-2.5')	1/12/2023	2.5'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	18.0
S-4 (1-1.5')	1/12/2023	1.5'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	115
S-4 (2-2.5')	1/12/2023	2.5'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	132
S-5 (1-1.5')	1/12/2023	1.5'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	135
S-5 (2-2.5')	1/12/2023	2.5'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	36.6
S-6 (1-1.5')	1/12/2023	1.5'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	102
S-6 (2-2.5')	1/12/2023	2.5'	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	87.3
Deferral Samples													
VDS-1	3/22/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
	3/22/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	528
	3/22/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
	3/22/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	720
	3/22/2023	5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
VDS-2	3/22/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	816
	3/22/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96
	3/22/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
	3/22/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
	3/22/2023	5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
VDS-3	3/22/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
	3/22/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
	3/22/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
	3/22/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
	3/22/2023	5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
VDS-4	3/22/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
	3/22/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
	3/22/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
	3/22/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
	3/22/2023	5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48

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
Arcturus 18 Fed Com 8H
Devon Energy Production Company
Eddy 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 (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	
			Table I Closure Criteria for Soil 51-100 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg
Confirmation Base Samples													
CS-1	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
CS-2	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
CS-3	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
CS-4	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
CS-5	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
CS-6	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
CS-7	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
CS-8	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	18.1	18.1	<10.0	18.1	240
CS-9	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
CS-10	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	16.3	16.3	<10.0	16.3	240
CS-11	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	17.8	17.8	<10.0	17.8	1,560
	4/12/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
CS-12	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	84.1	84.1	11.7	95.8	1,700
	4/12/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
CS-13	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	13.2	13.2	<10.0	13.2	1,200
	4/12/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
CS-14	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	16.7	16.7	<10.0	16.7	1,230
	4/12/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
CS-15	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	22.1	22.1	<10.0	22.1	1,310
	4/12/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
CS-16	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	51.8	51.8	10.1	61.9	1,880
	4/12/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
CS-17	3/29/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	705	705	201	906	2,840
	4/12/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
CS-18	3/29/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	675	675	159	834	2,400
	4/12/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS-19	3/29/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1,000	1,000	230	1,230	2,160
	4/12/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS-20	3/29/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	445	445	123	568	2,280
	4/12/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS-21	3/29/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
CS-22	3/29/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320

Table 2
Summary of Soil Analytical Data - Confirmation Samples
Arcturus 18 Fed Com 8H
Devon Energy Production Company
Eddy 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 (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)		
			Table I Closure Criteria for Soil 51-100 feet Depth to Groundwater 19.15.29 NMAC											
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg		600 mg/kg
CS-23	3/29/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288	
CS-24	3/29/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400	
CS-25	3/29/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208	
CS-26	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	896	
	4/12/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240	
CS-27	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,410	
	4/12/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240	
CS-28	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,320	
	4/12/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160	
CS-29	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	992	
	4/12/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176	
CS-30	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,860	
	4/12/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144	
CS-31	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	768	
	4/12/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208	
CS-32	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,340	
	4/12/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144	
CS-33	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	16	16	<10.0	16	1,310	
	4/12/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112	
CS-34	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,120	
	4/12/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64	
CS-35	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,300	
	4/12/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80	
CS-36	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	816	
	4/12/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80	
CS-37	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	800	
	4/12/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96	
CS-38	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	720	
	4/12/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96	
CS-39	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	832	
	4/12/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144	
CS-40	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	864	
	4/12/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112	
CS-41	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,340	
	4/12/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64	
CS-42	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,420	
	4/12/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64	

Table 2
Summary of Soil Analytical Data - Confirmation Samples
Arcturus 18 Fed Com 8H
Devon Energy Production Company
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	
			(mg/kg)	(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 51-100 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg
CS-43	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,020
	4/12/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80

Table 2
Summary of Soil Analytical Data - Confirmation Samples
Arcturus 18 Fed Com 8H
Devon Energy Production Company
Eddy 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 (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	
			(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 51-100 feet Depth to Groundwater 19.15.29 NMAC										
10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg			
Confirmation Side-Wall Samples													
SW-1	3/29/2023	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW-2	3/29/2023	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW-3	3/29/2023	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW-4	3/29/2023	1-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW-5A	3/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	736
SW-5A	4/12/2023	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SW-6	3/29/2023	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
SW-7	3/29/2023	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
SW-8	3/29/2023	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,000
SW-8A	4/12/2023	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SW-9	3/29/2023	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<13.1	<13.1	<10.0	<13.1	3,000
SW-9A	4/12/2023	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SW-10	3/29/2023	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,760
SW-11	3/29/2023	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,880
SW-12	3/29/2023	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW-13	3/29/2023	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SW-14	3/29/2023	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SW-15	3/29/2023	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
SW-16	3/29/2023	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
SW-17	3/29/2023	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96
SW-18	3/29/2023	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
SW-19	3/29/2023	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW-20	3/29/2023	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
SW-21	4/12/2023	1-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SW-22	4/12/2023	2-3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64

Notes:

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

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

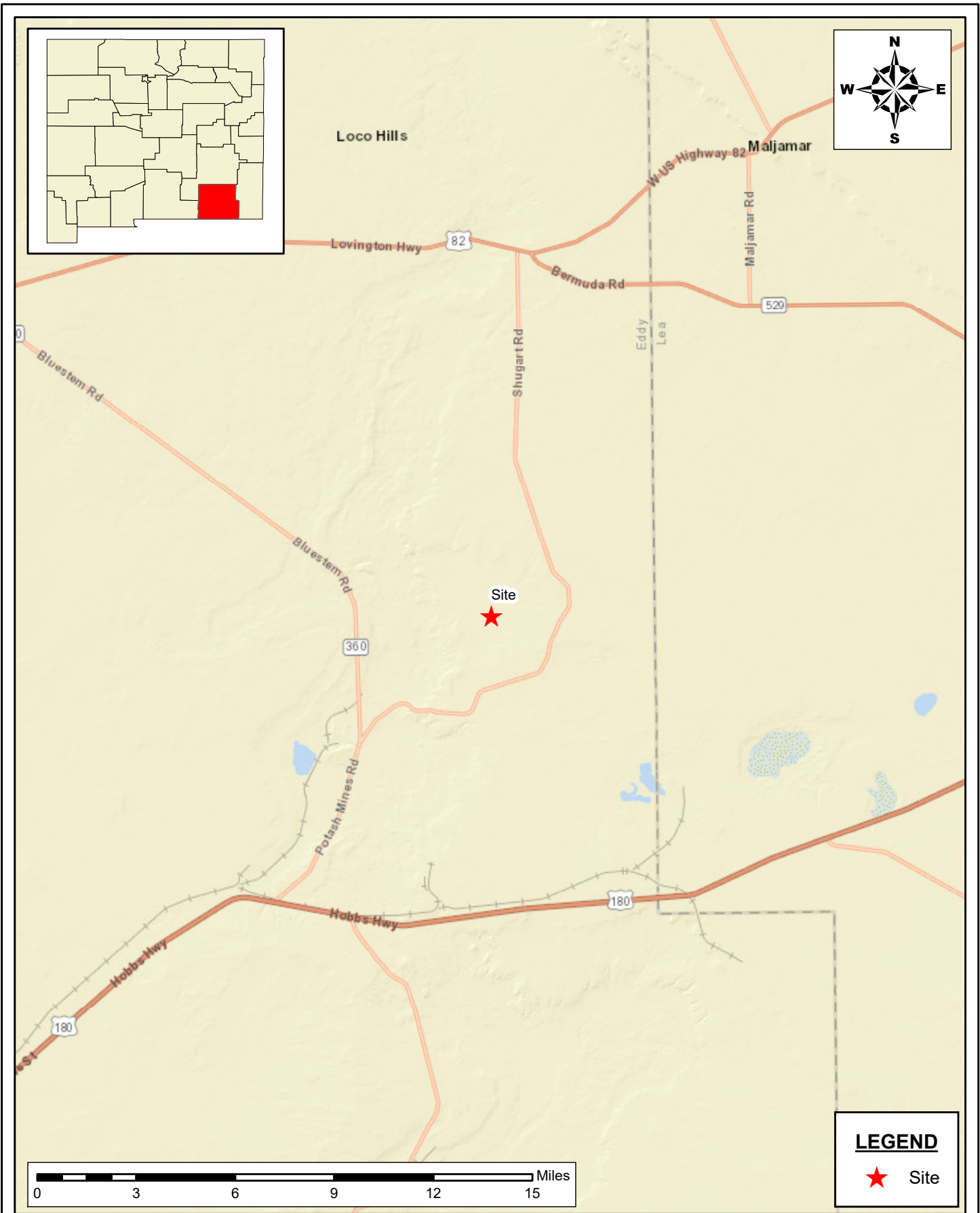
7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.

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).

- Not Analyzed

FIGURES

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SITE LOCATION MAP
REMEDIAL ACTION REPORT
 ARCTURUS 18 FED COM 8H
 DEVON ENERGY PRODUCTION CORPORATION
 EDDY COUNTY, NEW MEXICO

SCALE: As Shown Date: 4/25/2023 PROJECT #: 236740

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

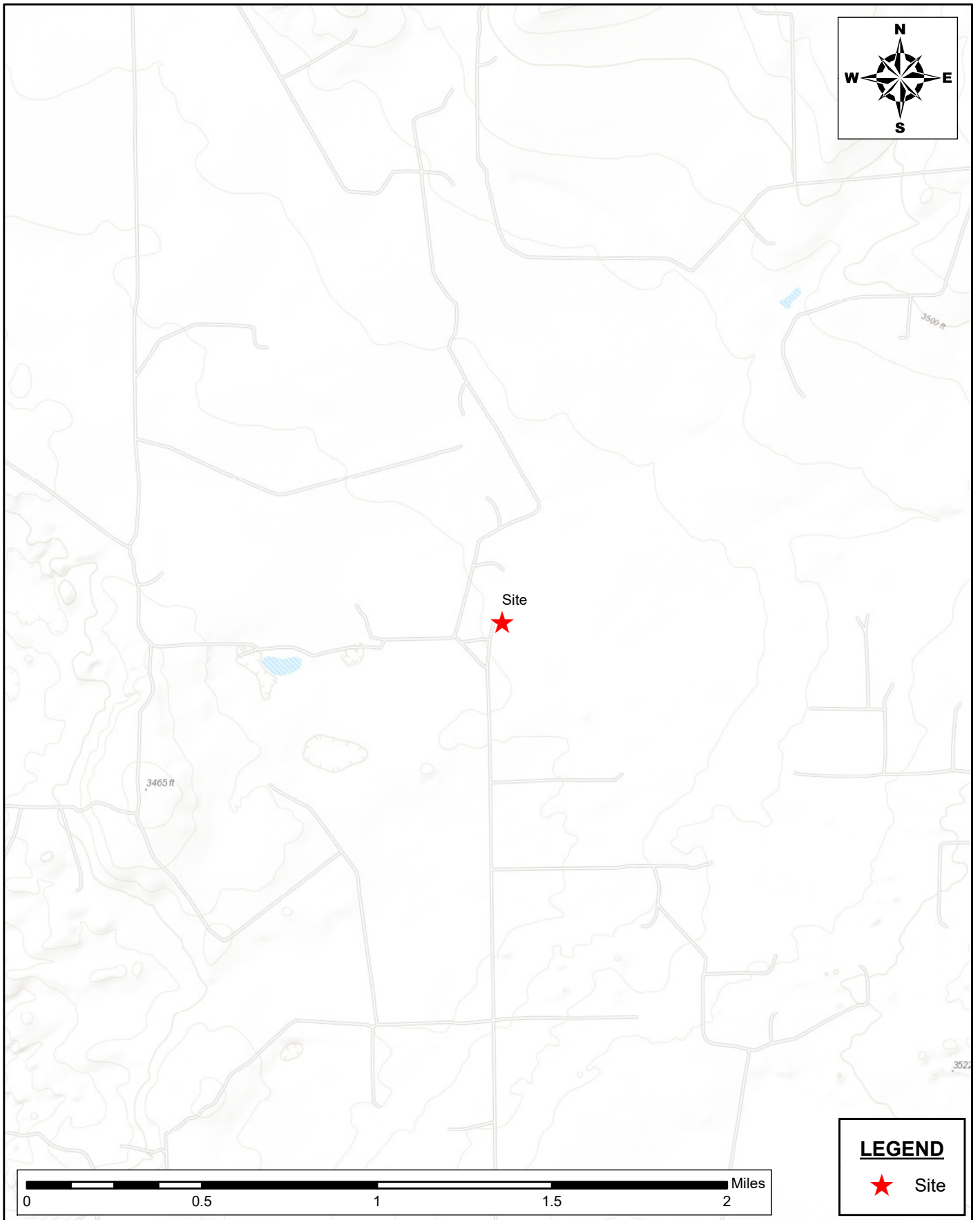
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FIGURE 1

SHEET NUMBER:

1 of 1

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SITE AREA MAP
REMEDIAL ACTION REPORT
ARCTURUS 18 FED COM 8H
DEVON ENERGY PRODUCTION CORPORATION
EDDY COUNTY, NEW MEXICO

SCALE: As Shown Date: 4/25/2023 PROJECT #: 236740



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911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
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NOTES:

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

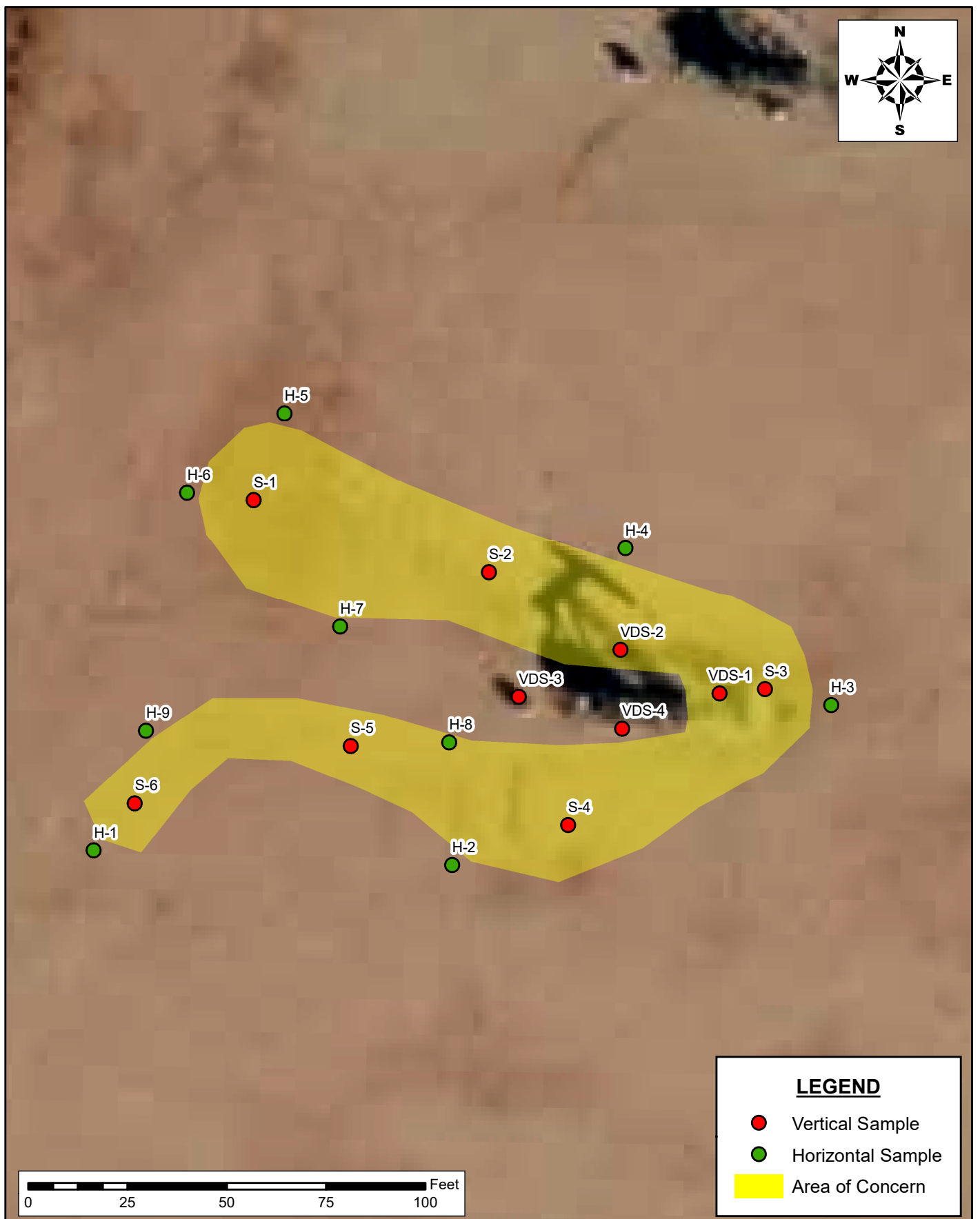
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FIGURE 2

SHEET NUMBER:

1 of 1

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**PROPOSED EXCAVATION MAP
REMEDIAL ACTION REPORT**
ARCTURUS 18 FED COM 8H
DEVON ENERGY PRODUCTION CORPORATION
EDDY COUNTY, NEW MEXICO

SCALE: As Shown

Date: 4/25/2023

PROJECT #: 236740



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Houston, Texas 77060
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NOTES:

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

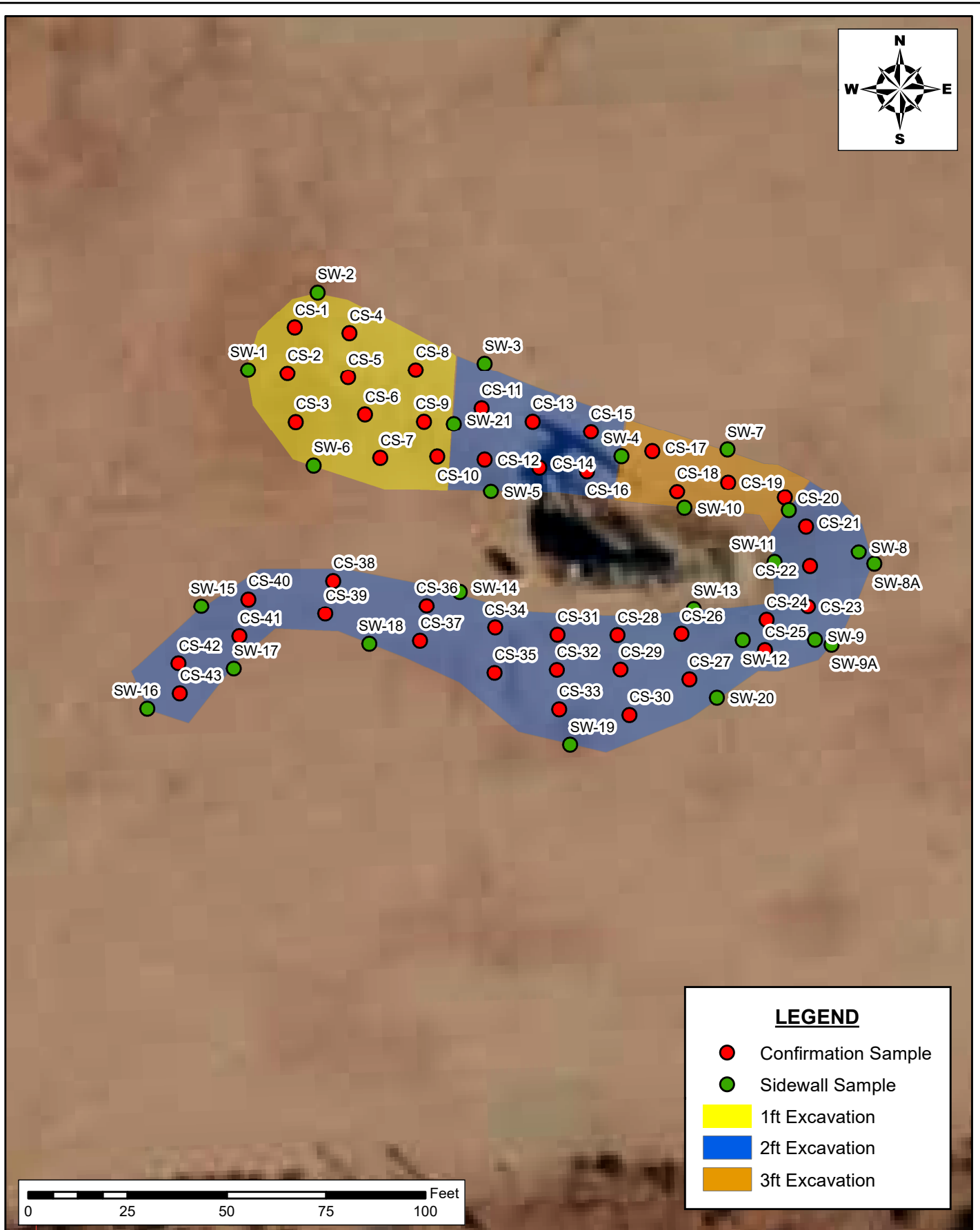
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FIGURE 3

SHEET NUMBER:

1 of 1

Document Path: P:\2023 PROJECTS\DEVON\SC236740 - ARCTURUS 18-8V- Figures\GIS\Figure_4_CM_DH.mxd



**CONFIRMATION MAP
REMEDIAL ACTION REPORT**
ARCTURUS 18 FED COM 8H
DEVON ENERGY PRODUCTION CORPORATION
EDDY COUNTY, NEW MEXICO

SCALE: As Shown

Date: 4/25/2023

PROJECT #: 236740



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

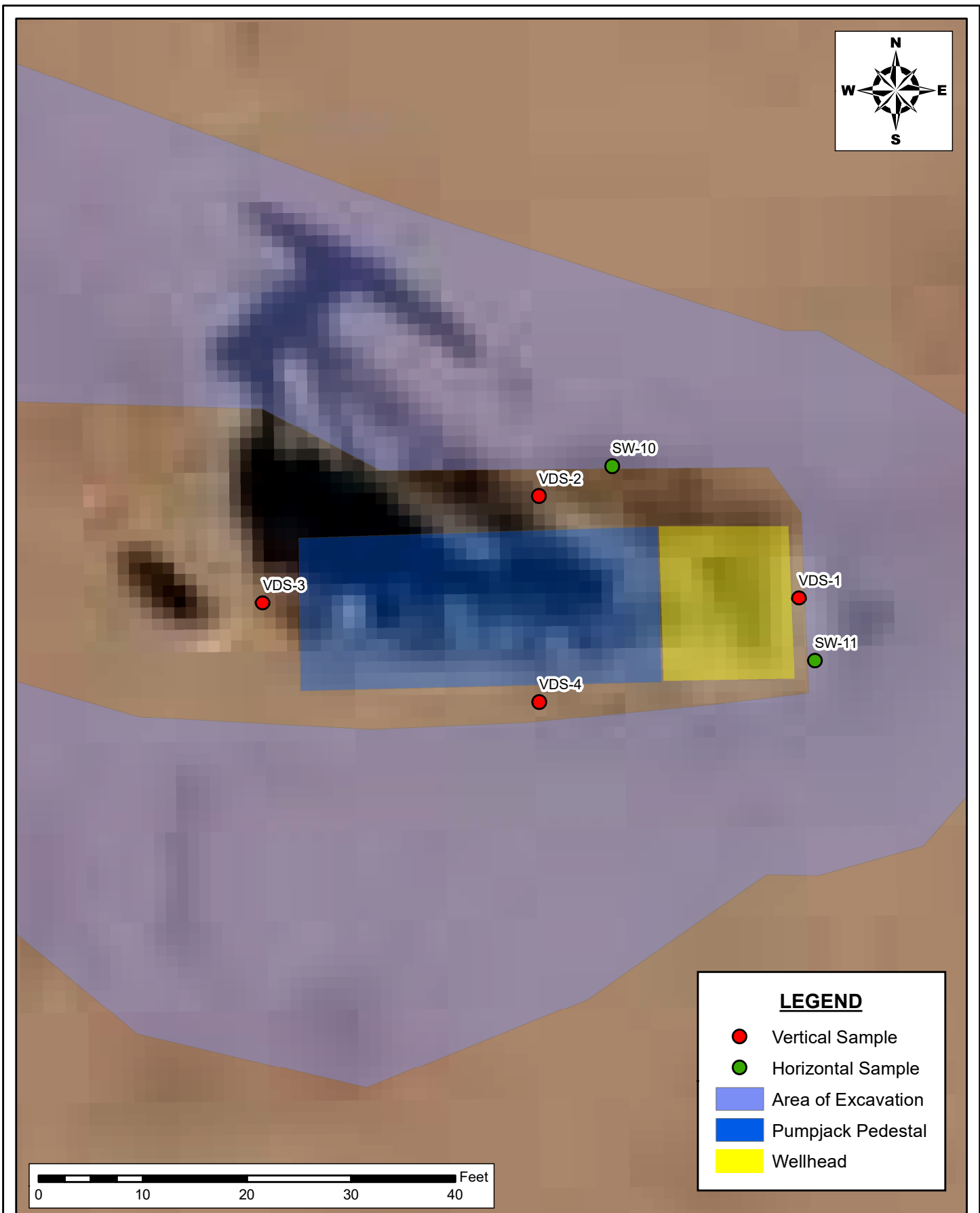
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FIGURE 4

SHEET NUMBER:

1 of 1

Document Path: P:\2023 PROJECTS\DEVON\NSC\236740 - ARCTURUS 18-8V - Figures\GIS\Figure_5_DM_DH.mxd



DEFERRAL MAP
REMEDIAL ACTION REPORT
 ARCTURUS 18 FED COM 8H
 DEVON ENERGY PRODUCTION CORPORATION
 EDDY COUNTY, NEW MEXICO

SCALE: As Shown

Date: 4/25/2023

PROJECT #: 236740



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

DRAWING NUMBER:

FIGURE 5

SHEET NUMBER:

1 of 1

SITE CHARACTERIZATION INFORMATION

Devon Energy - Arcturus 18 Fed Com 8H
Sec 17 T19S R31E
32.654000Â°, -103.899100Â°
Eddy County, New Mexico

Site Characterization

- No water features within specified distances of 1/2 mile radius
- Medium Karst

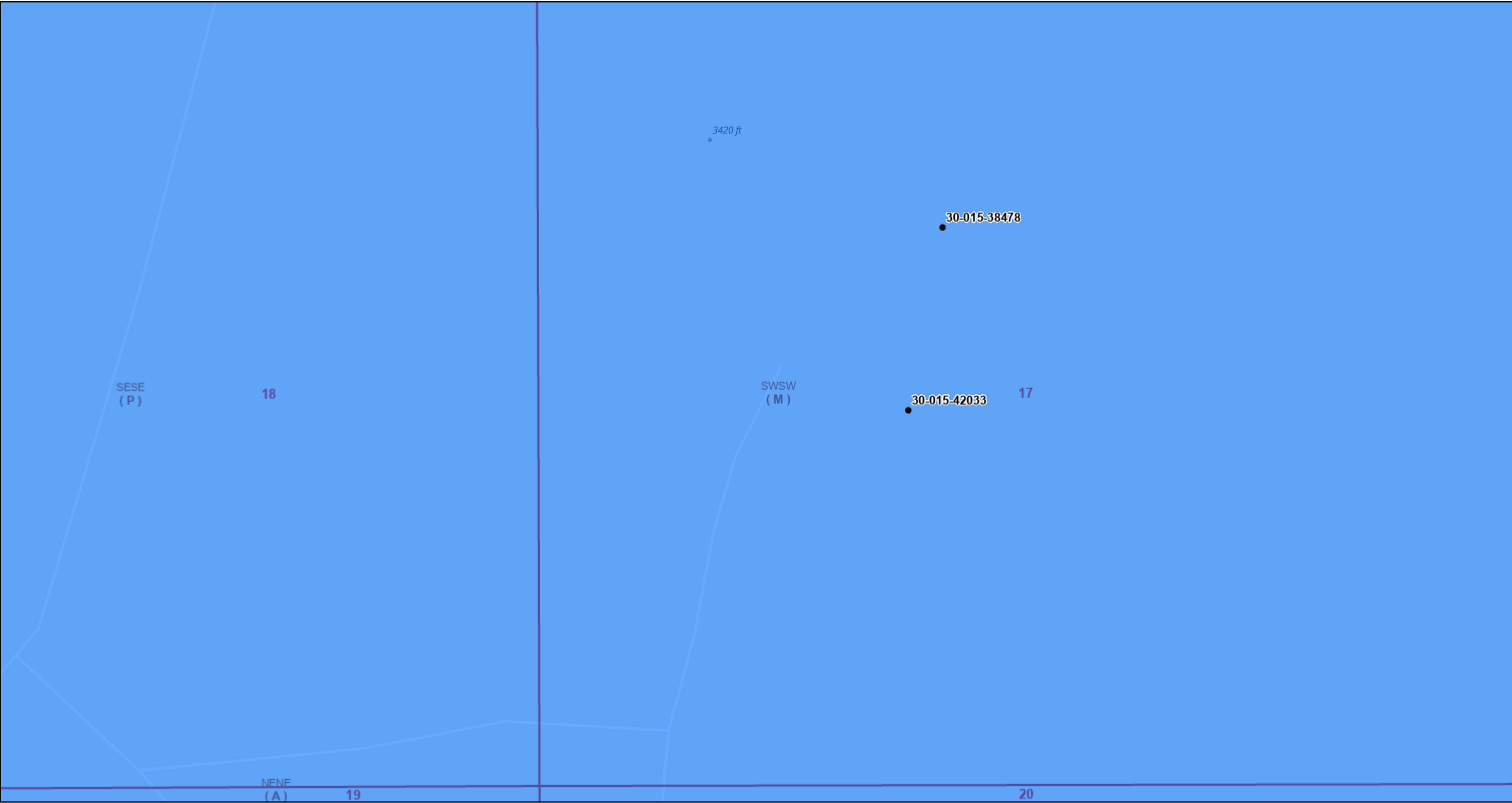
Nearest Water well

- NMSEO Water well 0.93 mi Southwest, Drilled in 1998 at a depth of 180ft below ground level (CP-00873)

RRALs due to insufficient groundwater data

- Chlorides 600 mg/kg
- TPH GRO+DRO+MRO 100 mg/kg
- BTEX 50 mg/kg
- Benzene 10 mg/kg

OCD Well Locations



1/10/2023, 4:30:57 PM

Wells - Large Scale

● Inactive

● Plugged

PLSS Second Division

● Oil, Active

● Pending

● Unknown

PLSS First Division

OSE PODs

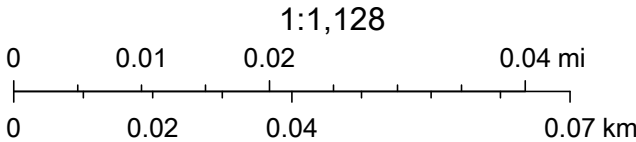
● Changed Location of Well

Karst Occurrence Potential

● Active

● Capped

Medium



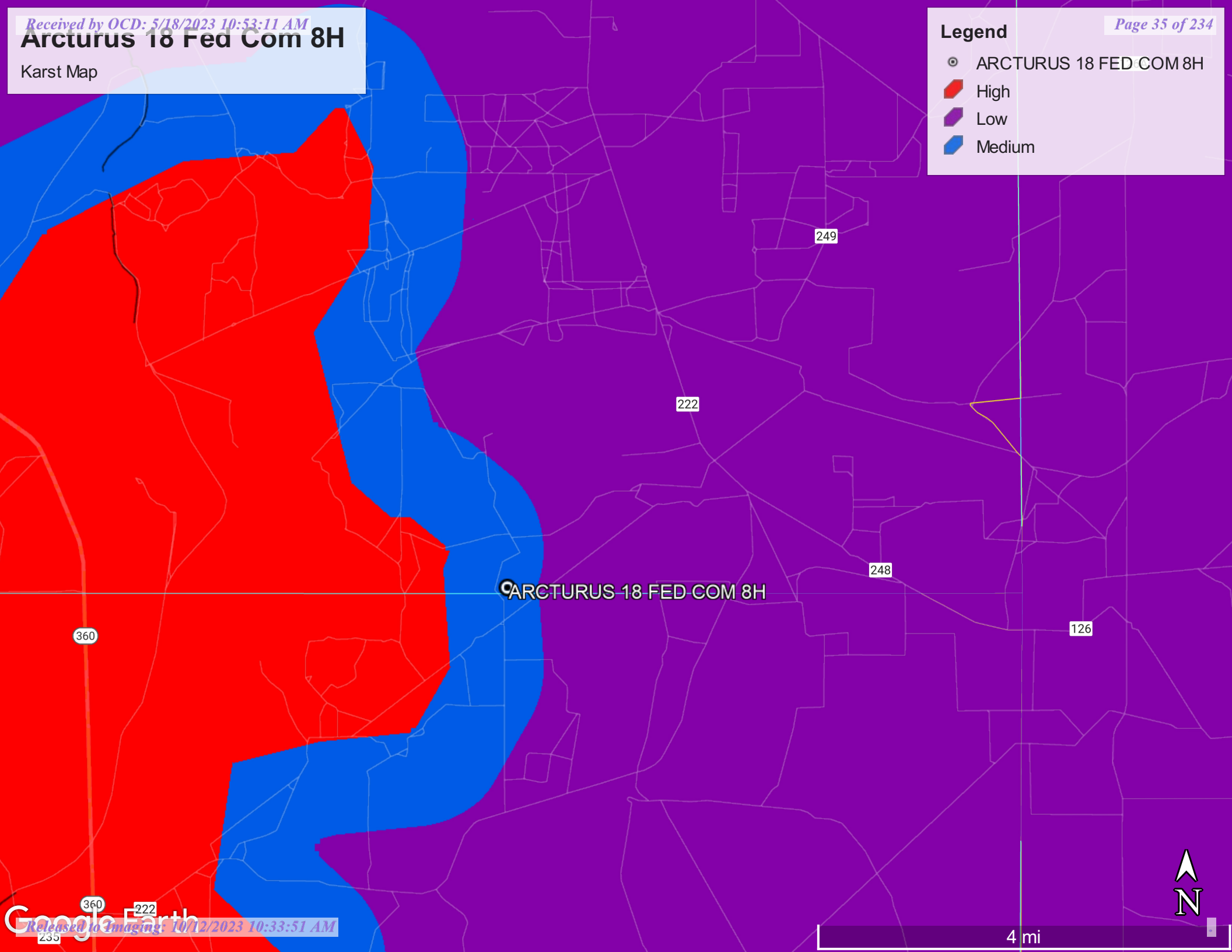
BLM, OCD, New Mexico Tech, OSE GIS, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Esri Community Maps Contributors, New Mexico State

Arcturus 18 Fed Com 8H

Karst Map

Legend

- ARCTURUS 18 FED COM 8H
- High
- Low
- Medium






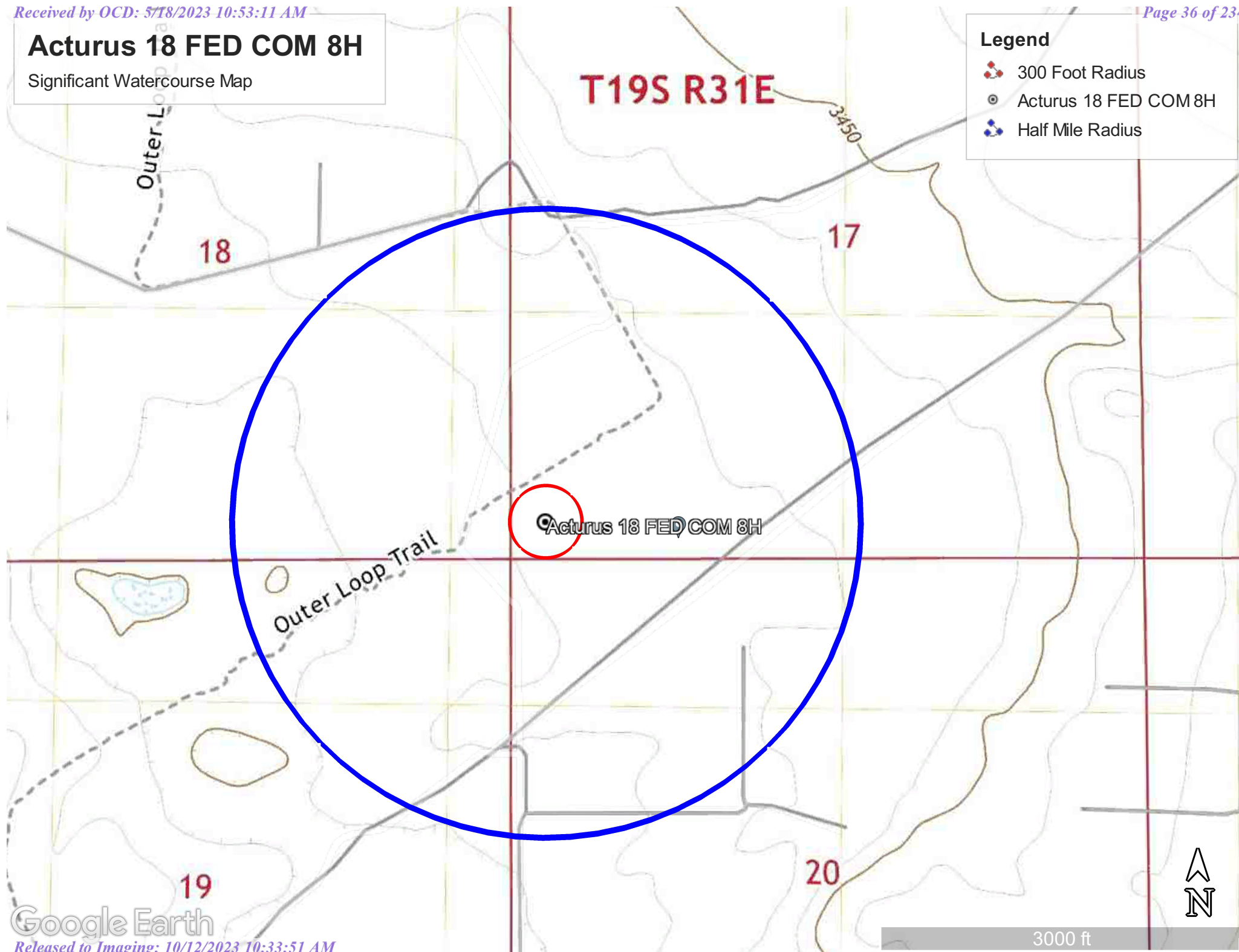
ARCTURUS 18 FED COM 8H

Acturus 18 FED COM 8H

Significant Watercourse Map

Legend

-  300 Foot Radius
-  Acturus 18 FED COM 8H
-  Half Mile Radius





Arcturus 18 FED COM 8H



January 10, 2023

Wetlands

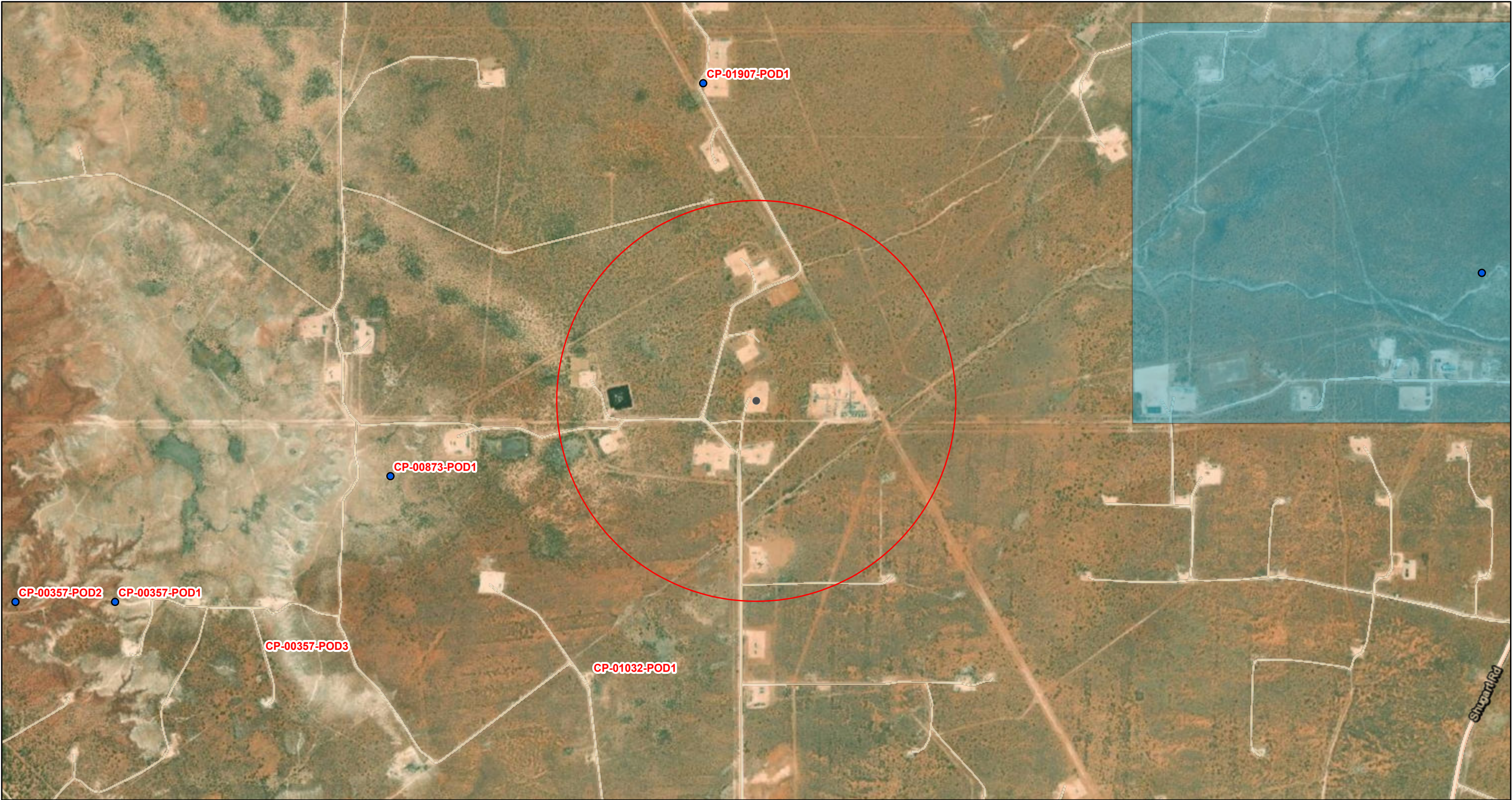
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

OSE POD Locations Map



1/11/2023, 8:23:00 AM

GIS WATERS PODs

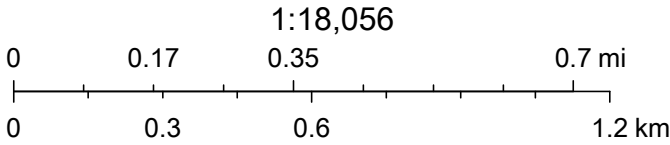
• Active

OSE District Boundary

New Mexico State Trust Lands

Both Estates

SiteBoundaries



Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar



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National Water Information System: Mapper

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Site Information

National Flood Hazard Layer FIRMette



103°54'15"W 32°39'30"N



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/11/2023 at 9:39 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG

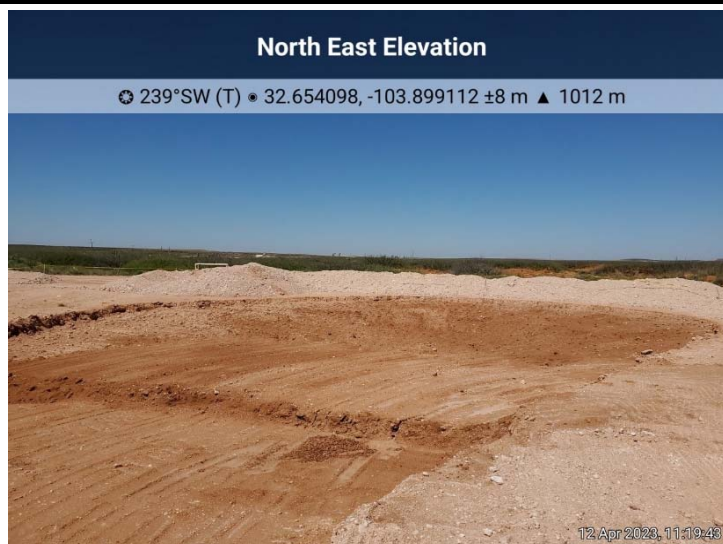
Devon Energy Production Company

Photograph No. 1

Facility: Arcturus 18 Fed Com 8H

County: Eddy County, New Mexico

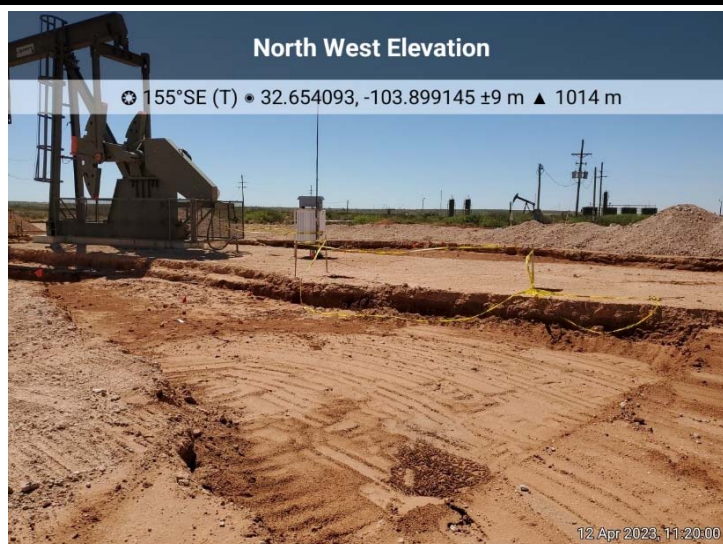
Description:
Final Excavation.

**Photograph No. 2**

Facility: Arcturus 18 Fed Com 8H

County: Eddy County, New Mexico

Description:
Final Excavation.

**Photograph No. 3**

Facility: Arcturus 18 Fed Com 8H

County: Eddy County, New Mexico

Description:
Final Excavation.



PHOTOGRAPHIC LOG

Devon Energy Production Company

Photograph No. 4

Facility: Arcturus 18 Fed Com 8H

County: Eddy County, New Mexico

Description:
Final Excavation.

**Photograph No. 5**

Facility: Arcturus 18 Fed Com 8H

County: Eddy County, New Mexico

Description:
Final Excavation.

**Photograph No. 6**

Facility: Arcturus 18 Fed Com 8H

County: Eddy County, New Mexico

Description:
Final Excavation.



PHOTOGRAPHIC LOG

Devon Energy Production Company

Photograph No. 7

Facility: Arcturus 18 Fed Com 8H

County: Eddy County, New Mexico

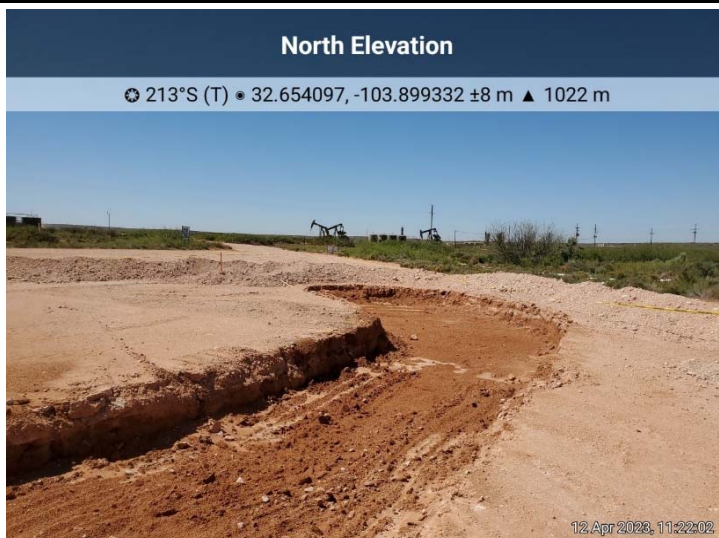
Description:
Final Excavation.

**Photograph No. 8**

Facility: Arcturus 18 Fed Com 8H

County: Eddy County, New Mexico

Description:
Final Excavation.

**Photograph No. 9**

Facility: Arcturus 18 Fed Com 8H

County: Eddy County, New Mexico

Description:
Final Excavation.



LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS



Environment Testing

1

2

3

4

5

6

7

8

9

10

11

12

13

14

ANALYTICAL REPORT

PREPARED FOR

Attn: Ethan Sessums
NT Global

701 Tradewinds Blvd
Midland, Texas 79706

Generated 1/23/2023 10:58:15 AM

JOB DESCRIPTION

Arcturus 18-8
SDG NUMBER 236740

JOB NUMBER

890-3839-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad**Job Notes**

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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Client: NT Global
Project/Site: Arcturus 18-8

Laboratory Job ID: 890-3839-1
SDG: 236740

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Definitions/Glossary

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

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.
⬤	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: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

Job ID: 890-3839-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-3839-1

Receipt

The samples were received on 1/13/2023 12:17 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 2.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (890-3839-1), H-2 (890-3839-2), H-3 (890-3839-3), H-4 (890-3839-4), H-5 (890-3839-5), H-6 (890-3839-6), H-7 (890-3839-7), H-8 (890-3839-8), H-9 (890-3839-9), S-1 (1-1.5) (890-3839-10), S-1 (2-2.5) (890-3839-11), S-2 (1-1.5) (890-3839-12), S-2 (2-2.5) (890-3839-13), S-3 (1-1.5) (890-3839-14), S-3 (2-2.5) (890-3839-15), S-4 (1-1.5) (890-3839-16), S-4 (2-2.5) (890-3839-17), S-5 (1-1.5) (890-3839-18), S-5 (1-1.5) (890-3839-19), S-6 (1-1.5) (890-3839-20) and S-6 (2-2.5) (890-3839-21).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-3 (2-2.5) (890-3839-15). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-5 (1-1.5) (890-3839-18). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: o-Xylene biased high in LCS. Since only an acceptable LCS or LCSD is required per the method, the data has been qualified and reported.(LCS 880-43990/1-A)

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: Surrogate recovery for the following sample was outside control limits: (LCS 880-43987/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-44145 and analytical batch 880-44410 was outside the upper control limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 880-44145 and analytical batch 880-44410 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample 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.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-44201 and 880-44201 and analytical batch 880-44278 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: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

Client Sample ID: H-1

Lab Sample ID: 890-3839-1

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

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		01/16/23 14:28	01/17/23 23:27	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/16/23 14:28	01/17/23 23:27	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/16/23 14:28	01/17/23 23:27	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/16/23 14:28	01/17/23 23:27	1
o-Xylene	<0.00201	U **	0.00201		mg/Kg		01/16/23 14:28	01/17/23 23:27	1
Xylenes, Total	<0.00402	U **	0.00402		mg/Kg		01/16/23 14:28	01/17/23 23:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	01/16/23 14:28	01/17/23 23:27	1
1,4-Difluorobenzene (Surr)	96		70 - 130	01/16/23 14:28	01/17/23 23:27	1

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			01/18/23 14:26	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			01/23/23 11:33	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 F2	49.9		mg/Kg		01/17/23 10:45	01/20/23 10:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/17/23 10:45	01/20/23 10:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/17/23 10:45	01/20/23 10:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	01/17/23 10:45	01/20/23 10:50	1
o-Terphenyl	113		70 - 130	01/17/23 10:45	01/20/23 10:50	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.6	F1	5.05		mg/Kg			01/19/23 08:03	1

Client Sample ID: H-2

Lab Sample ID: 890-3839-2

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/16/23 14:28	01/17/23 23:47	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/16/23 14:28	01/17/23 23:47	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/16/23 14:28	01/17/23 23:47	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/16/23 14:28	01/17/23 23:47	1
o-Xylene	<0.00202	U **	0.00202		mg/Kg		01/16/23 14:28	01/17/23 23:47	1
Xylenes, Total	<0.00404	U **	0.00404		mg/Kg		01/16/23 14:28	01/17/23 23:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	01/16/23 14:28	01/17/23 23:47	1
1,4-Difluorobenzene (Surr)	88		70 - 130	01/16/23 14:28	01/17/23 23:47	1

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Client Sample Results

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

Client Sample ID: H-2

Lab Sample ID: 890-3839-2

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/18/23 14:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/23/23 11:33	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	<49.8	U	49.8		mg/Kg		01/17/23 10:45	01/20/23 11:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/17/23 10:45	01/20/23 11:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/17/23 10:45	01/20/23 11:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				01/17/23 10:45	01/20/23 11:56	1
o-Terphenyl	116		70 - 130				01/17/23 10:45	01/20/23 11:56	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.01		4.97		mg/Kg			01/19/23 08:22	1

Client Sample ID: H-3

Lab Sample ID: 890-3839-3

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

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		01/16/23 14:28	01/18/23 00:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/16/23 14:28	01/18/23 00:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/16/23 14:28	01/18/23 00:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/16/23 14:28	01/18/23 00:08	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		01/16/23 14:28	01/18/23 00:08	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		01/16/23 14:28	01/18/23 00:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				01/16/23 14:28	01/18/23 00:08	1
1,4-Difluorobenzene (Surr)	94		70 - 130				01/16/23 14:28	01/18/23 00:08	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			01/18/23 14:26	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			01/23/23 11:33	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		01/17/23 10:45	01/20/23 12:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/17/23 10:45	01/20/23 12:18	1

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Client Sample Results

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

Client Sample ID: H-3

Lab Sample ID: 890-3839-3

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

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		01/17/23 10:45	01/20/23 12:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				01/17/23 10:45	01/20/23 12:18	1
o-Terphenyl	103		70 - 130				01/17/23 10:45	01/20/23 12:18	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	454		5.00		mg/Kg			01/19/23 08:28	1

Client Sample ID: H-4

Lab Sample ID: 890-3839-4

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

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		01/16/23 14:28	01/18/23 00:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/16/23 14:28	01/18/23 00:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/16/23 14:28	01/18/23 00:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/16/23 14:28	01/18/23 00:28	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		01/16/23 14:28	01/18/23 00:28	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		01/16/23 14:28	01/18/23 00:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				01/16/23 14:28	01/18/23 00:28	1
1,4-Difluorobenzene (Surr)	91		70 - 130				01/16/23 14:28	01/18/23 00:28	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			01/18/23 14:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	52.3		49.8		mg/Kg			01/23/23 11:33	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	<49.8	U	49.8		mg/Kg		01/17/23 10:45	01/20/23 12:40	1
Diesel Range Organics (Over C10-C28)	52.3		49.8		mg/Kg		01/17/23 10:45	01/20/23 12:40	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/17/23 10:45	01/20/23 12:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				01/17/23 10:45	01/20/23 12:40	1
o-Terphenyl	111		70 - 130				01/17/23 10:45	01/20/23 12:40	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.8		4.98		mg/Kg			01/19/23 08:34	1

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Client Sample Results

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

Client Sample ID: H-5

Lab Sample ID: 890-3839-5

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

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		01/16/23 14:28	01/18/23 00:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/16/23 14:28	01/18/23 00:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/16/23 14:28	01/18/23 00:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/16/23 14:28	01/18/23 00:49	1
o-Xylene	<0.00200	U **	0.00200		mg/Kg		01/16/23 14:28	01/18/23 00:49	1
Xylenes, Total	<0.00399	U **	0.00399		mg/Kg		01/16/23 14:28	01/18/23 00:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	01/16/23 14:28	01/18/23 00:49	1
1,4-Difluorobenzene (Surr)	83		70 - 130	01/16/23 14:28	01/18/23 00:49	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			01/18/23 14:26	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			01/23/23 11:33	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		01/17/23 10:45	01/20/23 13:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/17/23 10:45	01/20/23 13:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/17/23 10:45	01/20/23 13:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	01/17/23 10:45	01/20/23 13:02	1
o-Terphenyl	95		70 - 130	01/17/23 10:45	01/20/23 13:02	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	328		4.96		mg/Kg			01/19/23 08:40	1

Client Sample ID: H-6

Lab Sample ID: 890-3839-6

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

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		01/16/23 14:28	01/18/23 01:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/16/23 14:28	01/18/23 01:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/16/23 14:28	01/18/23 01:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/16/23 14:28	01/18/23 01:09	1
o-Xylene	<0.00201	U **	0.00201		mg/Kg		01/16/23 14:28	01/18/23 01:09	1
Xylenes, Total	<0.00402	U **	0.00402		mg/Kg		01/16/23 14:28	01/18/23 01:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	01/16/23 14:28	01/18/23 01:09	1
1,4-Difluorobenzene (Surr)	78		70 - 130	01/16/23 14:28	01/18/23 01:09	1

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Client Sample Results

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

Client Sample ID: H-6

Lab Sample ID: 890-3839-6

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

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			01/18/23 14:26	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			01/23/23 11:33	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		01/17/23 10:45	01/20/23 13:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 13:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 13:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				01/17/23 10:45	01/20/23 13:25	1
o-Terphenyl	89		70 - 130				01/17/23 10:45	01/20/23 13:25	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.56		4.95		mg/Kg			01/19/23 08:59	1

Client Sample ID: H-7

Lab Sample ID: 890-3839-7

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/16/23 14:28	01/18/23 01:30	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/16/23 14:28	01/18/23 01:30	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/16/23 14:28	01/18/23 01:30	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/16/23 14:28	01/18/23 01:30	1
o-Xylene	<0.00202	U **	0.00202		mg/Kg		01/16/23 14:28	01/18/23 01:30	1
Xylenes, Total	<0.00404	U **	0.00404		mg/Kg		01/16/23 14:28	01/18/23 01:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				01/16/23 14:28	01/18/23 01:30	1
1,4-Difluorobenzene (Surr)	82		70 - 130				01/16/23 14:28	01/18/23 01:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/18/23 14:26	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			01/23/23 11:33	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		01/17/23 10:45	01/20/23 13:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 13:46	1

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Client Sample Results

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

Client Sample ID: H-7

Lab Sample ID: 890-3839-7

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

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		01/17/23 10:45	01/20/23 13:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				01/17/23 10:45	01/20/23 13:46	1
o-Terphenyl	107		70 - 130				01/17/23 10:45	01/20/23 13:46	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	103		5.01		mg/Kg			01/19/23 09:05	1

Client Sample ID: H-8

Lab Sample ID: 890-3839-8

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

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		01/16/23 14:28	01/18/23 01:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/16/23 14:28	01/18/23 01:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/16/23 14:28	01/18/23 01:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/16/23 14:28	01/18/23 01:50	1
o-Xylene	<0.00199	U *	0.00199		mg/Kg		01/16/23 14:28	01/18/23 01:50	1
Xylenes, Total	<0.00398	U *	0.00398		mg/Kg		01/16/23 14:28	01/18/23 01:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				01/16/23 14:28	01/18/23 01:50	1
1,4-Difluorobenzene (Surr)	91		70 - 130				01/16/23 14:28	01/18/23 01:50	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			01/18/23 14:26	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			01/23/23 11:33	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		01/17/23 10:45	01/20/23 14:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 14:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 14:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				01/17/23 10:45	01/20/23 14:09	1
o-Terphenyl	110		70 - 130				01/17/23 10:45	01/20/23 14:09	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	906		5.04		mg/Kg			01/19/23 09:11	1

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Client Sample Results

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

Client Sample ID: H-9

Lab Sample ID: 890-3839-9

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

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		01/16/23 14:28	01/18/23 02:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/16/23 14:28	01/18/23 02:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/16/23 14:28	01/18/23 02:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/16/23 14:28	01/18/23 02:11	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		01/16/23 14:28	01/18/23 02:11	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		01/16/23 14:28	01/18/23 02:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	01/16/23 14:28	01/18/23 02:11	1
1,4-Difluorobenzene (Surr)	81		70 - 130	01/16/23 14:28	01/18/23 02:11	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			01/18/23 14:26	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			01/23/23 11:33	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		01/17/23 10:45	01/20/23 14:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/17/23 10:45	01/20/23 14:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/17/23 10:45	01/20/23 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	01/17/23 10:45	01/20/23 14:31	1
o-Terphenyl	113		70 - 130	01/17/23 10:45	01/20/23 14:31	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	178		4.99		mg/Kg			01/19/23 09:17	1

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

Lab Sample ID: 890-3839-10

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

Sample Depth: 1 - 1.5

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		01/16/23 14:28	01/18/23 02:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/16/23 14:28	01/18/23 02:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/16/23 14:28	01/18/23 02:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/16/23 14:28	01/18/23 02:31	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		01/16/23 14:28	01/18/23 02:31	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		01/16/23 14:28	01/18/23 02:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	01/16/23 14:28	01/18/23 02:31	1
1,4-Difluorobenzene (Surr)	87		70 - 130	01/16/23 14:28	01/18/23 02:31	1

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Client Sample Results

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

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

Lab Sample ID: 890-3839-10

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

Sample Depth: 1 - 1.5

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			01/18/23 14:26	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			01/23/23 11:33	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		01/17/23 10:45	01/20/23 14:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/17/23 10:45	01/20/23 14:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/17/23 10:45	01/20/23 14:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				01/17/23 10:45	01/20/23 14:53	1
o-Terphenyl	107		70 - 130				01/17/23 10:45	01/20/23 14:53	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.3		5.03		mg/Kg			01/19/23 09:23	1

Client Sample ID: S-1 (2-2.5)

Lab Sample ID: 890-3839-11

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

Sample Depth: 2 - 2.5

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		01/16/23 14:28	01/18/23 03:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/16/23 14:28	01/18/23 03:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/16/23 14:28	01/18/23 03:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/16/23 14:28	01/18/23 03:54	1
o-Xylene	<0.00200	U *	0.00200		mg/Kg		01/16/23 14:28	01/18/23 03:54	1
Xylenes, Total	<0.00399	U *	0.00399		mg/Kg		01/16/23 14:28	01/18/23 03:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130				01/16/23 14:28	01/18/23 03:54	1
1,4-Difluorobenzene (Surr)	89		70 - 130				01/16/23 14:28	01/18/23 03:54	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			01/18/23 14:26	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			01/23/23 11:33	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		01/17/23 10:45	01/20/23 15:37	1

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Client Sample Results

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

Client Sample ID: S-1 (2-2.5)

Lab Sample ID: 890-3839-11

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

Sample Depth: 2 - 2.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 15:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 15:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				01/17/23 10:45	01/20/23 15:37	1
o-Terphenyl	100		70 - 130				01/17/23 10:45	01/20/23 15:37	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130	F1	5.04		mg/Kg			01/19/23 09:29	1

Client Sample ID: S-2 (1-1.5)

Lab Sample ID: 890-3839-12

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

Sample Depth: 1 - 1.5

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		01/16/23 14:28	01/18/23 04:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/16/23 14:28	01/18/23 04:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/16/23 14:28	01/18/23 04:15	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/16/23 14:28	01/18/23 04:15	1
o-Xylene	<0.00200	U *	0.00200		mg/Kg		01/16/23 14:28	01/18/23 04:15	1
Xylenes, Total	<0.00401	U *	0.00401		mg/Kg		01/16/23 14:28	01/18/23 04:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				01/16/23 14:28	01/18/23 04:15	1
1,4-Difluorobenzene (Surr)	73		70 - 130				01/16/23 14:28	01/18/23 04:15	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			01/18/23 14:26	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			01/23/23 11:33	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		01/17/23 10:45	01/20/23 15:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 15:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 15:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				01/17/23 10:45	01/20/23 15:59	1
o-Terphenyl	99		70 - 130				01/17/23 10:45	01/20/23 15:59	1

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Client Sample Results

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

Client Sample ID: S-2 (1-1.5)

Lab Sample ID: 890-3839-12

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

Sample Depth: 1 - 1.5

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	176		4.99		mg/Kg			01/19/23 09:48	1

Client Sample ID: S-2 (2-2.5)

Lab Sample ID: 890-3839-13

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

Sample Depth: 2 - 2.5

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		01/16/23 14:28	01/18/23 04:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/16/23 14:28	01/18/23 04:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/16/23 14:28	01/18/23 04:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/16/23 14:28	01/18/23 04:35	1
o-Xylene	<0.00199	U *	0.00199		mg/Kg		01/16/23 14:28	01/18/23 04:35	1
Xylenes, Total	<0.00398	U *	0.00398		mg/Kg		01/16/23 14:28	01/18/23 04:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				01/16/23 14:28	01/18/23 04:35	1
1,4-Difluorobenzene (Surr)	82		70 - 130				01/16/23 14:28	01/18/23 04:35	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			01/18/23 14:26	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			01/23/23 11:33	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		01/17/23 10:45	01/20/23 16:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/17/23 10:45	01/20/23 16:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/17/23 10:45	01/20/23 16:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				01/17/23 10:45	01/20/23 16:20	1
o-Terphenyl	108		70 - 130				01/17/23 10:45	01/20/23 16:20	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.67		4.98		mg/Kg			01/19/23 09:54	1

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Client Sample Results

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

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

Lab Sample ID: 890-3839-14

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

Sample Depth: 1 - 1.5

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		01/16/23 14:28	01/18/23 04:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/16/23 14:28	01/18/23 04:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/16/23 14:28	01/18/23 04:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/16/23 14:28	01/18/23 04:56	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		01/16/23 14:28	01/18/23 04:56	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		01/16/23 14:28	01/18/23 04:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	01/16/23 14:28	01/18/23 04:56	1
1,4-Difluorobenzene (Surr)	75		70 - 130	01/16/23 14:28	01/18/23 04:56	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			01/18/23 14:26	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			01/23/23 11:33	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		01/17/23 10:45	01/20/23 16:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 16:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	01/17/23 10:45	01/20/23 16:42	1
o-Terphenyl	114		70 - 130	01/17/23 10:45	01/20/23 16:42	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3200		25.0		mg/Kg			01/19/23 10:12	5

Client Sample ID: S-3 (2-2.5)

Lab Sample ID: 890-3839-15

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

Sample Depth: 2 - 2.5

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		01/16/23 14:28	01/18/23 05:16	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/16/23 14:28	01/18/23 05:16	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/16/23 14:28	01/18/23 05:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/16/23 14:28	01/18/23 05:16	1
o-Xylene	<0.00201	U **	0.00201		mg/Kg		01/16/23 14:28	01/18/23 05:16	1
Xylenes, Total	<0.00402	U **	0.00402		mg/Kg		01/16/23 14:28	01/18/23 05:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	01/16/23 14:28	01/18/23 05:16	1

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Client Sample Results

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

Client Sample ID: S-3 (2-2.5)

Lab Sample ID: 890-3839-15

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

Sample Depth: 2 - 2.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130	01/16/23 14:28	01/18/23 05:16	1

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			01/18/23 14:26	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			01/23/23 11:33	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		01/17/23 10:45	01/20/23 17:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 17:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 17:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				01/17/23 10:45	01/20/23 17:05	1
o-Terphenyl	109		70 - 130				01/17/23 10:45	01/20/23 17:05	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.0		4.95		mg/Kg			01/19/23 10:19	1

Client Sample ID: S-4 (1-1.5)

Lab Sample ID: 890-3839-16

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

Sample Depth: 1 - 1.5

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		01/16/23 14:28	01/18/23 05:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/16/23 14:28	01/18/23 05:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/16/23 14:28	01/18/23 05:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/16/23 14:28	01/18/23 05:37	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		01/16/23 14:28	01/18/23 05:37	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		01/16/23 14:28	01/18/23 05:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	01/16/23 14:28	01/18/23 05:37	1
1,4-Difluorobenzene (Surr)	83		70 - 130	01/16/23 14:28	01/18/23 05:37	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			01/18/23 14:26	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			01/23/23 11:33	1

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Client Sample Results

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

Client Sample ID: S-4 (1-1.5)

Lab Sample ID: 890-3839-16

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

Sample Depth: 1 - 1.5

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		01/17/23 10:45	01/20/23 17:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/17/23 10:45	01/20/23 17:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/17/23 10:45	01/20/23 17:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				01/17/23 10:45	01/20/23 17:27	1
o-Terphenyl	102		70 - 130				01/17/23 10:45	01/20/23 17:27	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	115		5.02		mg/Kg			01/19/23 10:25	1

Client Sample ID: S-4 (2-2.5)

Lab Sample ID: 890-3839-17

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

Sample Depth: 2 - 2.5

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		01/16/23 14:28	01/18/23 05:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/16/23 14:28	01/18/23 05:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/16/23 14:28	01/18/23 05:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/16/23 14:28	01/18/23 05:57	1
o-Xylene	<0.00199	U *	0.00199		mg/Kg		01/16/23 14:28	01/18/23 05:57	1
Xylenes, Total	<0.00398	U *	0.00398		mg/Kg		01/16/23 14:28	01/18/23 05:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				01/16/23 14:28	01/18/23 05:57	1
1,4-Difluorobenzene (Surr)	92		70 - 130				01/16/23 14:28	01/18/23 05:57	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			01/18/23 14:26	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			01/23/23 11:33	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		01/17/23 10:45	01/20/23 17:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/17/23 10:45	01/20/23 17:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/17/23 10:45	01/20/23 17:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				01/17/23 10:45	01/20/23 17:48	1
o-Terphenyl	113		70 - 130				01/17/23 10:45	01/20/23 17:48	1

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Client Sample Results

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

Client Sample ID: S-4 (2-2.5)

Lab Sample ID: 890-3839-17

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

Sample Depth: 2 - 2.5

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	132		4.97		mg/Kg			01/19/23 10:31	1

Client Sample ID: S-5 (1-1.5)

Lab Sample ID: 890-3839-18

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

Sample Depth: 1 - 1.5

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		01/16/23 14:28	01/18/23 06:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/16/23 14:28	01/18/23 06:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/16/23 14:28	01/18/23 06:18	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/16/23 14:28	01/18/23 06:18	1
o-Xylene	<0.00200	U *	0.00200		mg/Kg		01/16/23 14:28	01/18/23 06:18	1
Xylenes, Total	<0.00399	U *	0.00399		mg/Kg		01/16/23 14:28	01/18/23 06:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130				01/16/23 14:28	01/18/23 06:18	1
1,4-Difluorobenzene (Surr)	88		70 - 130				01/16/23 14:28	01/18/23 06:18	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			01/18/23 14:26	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			01/23/23 11:33	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		01/17/23 10:45	01/20/23 18:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 18:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 18:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				01/17/23 10:45	01/20/23 18:09	1
o-Terphenyl	100		70 - 130				01/17/23 10:45	01/20/23 18:09	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		4.99		mg/Kg			01/19/23 10:37	1

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Client Sample Results

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

Client Sample ID: S-5 (1-1.5)

Lab Sample ID: 890-3839-19

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

Sample Depth: 1 - 1.5

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		01/16/23 14:28	01/18/23 06:38	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/16/23 14:28	01/18/23 06:38	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/16/23 14:28	01/18/23 06:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/16/23 14:28	01/18/23 06:38	1
o-Xylene	<0.00201	U **	0.00201		mg/Kg		01/16/23 14:28	01/18/23 06:38	1
Xylenes, Total	<0.00402	U **	0.00402		mg/Kg		01/16/23 14:28	01/18/23 06:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	01/16/23 14:28	01/18/23 06:38	1
1,4-Difluorobenzene (Surr)	86		70 - 130	01/16/23 14:28	01/18/23 06:38	1

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			01/18/23 14:26	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			01/23/23 11:33	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		01/17/23 10:45	01/20/23 18:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 18:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 18:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	01/17/23 10:45	01/20/23 18:31	1
o-Terphenyl	99		70 - 130	01/17/23 10:45	01/20/23 18:31	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.6		4.95		mg/Kg			01/19/23 10:43	1

Client Sample ID: S-6 (1-1.5)

Lab Sample ID: 890-3839-20

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

Sample Depth: 1 - 1.5

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		01/16/23 14:28	01/18/23 06:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/16/23 14:28	01/18/23 06:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/16/23 14:28	01/18/23 06:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/16/23 14:28	01/18/23 06:59	1
o-Xylene	<0.00201	U **	0.00201		mg/Kg		01/16/23 14:28	01/18/23 06:59	1
Xylenes, Total	<0.00402	U **	0.00402		mg/Kg		01/16/23 14:28	01/18/23 06:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	01/16/23 14:28	01/18/23 06:59	1

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Client Sample Results

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

Client Sample ID: S-6 (1-1.5)

Lab Sample ID: 890-3839-20

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

Sample Depth: 1 - 1.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	82		70 - 130	01/16/23 14:28	01/18/23 06:59	1

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			01/18/23 14:26	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			01/23/23 11:33	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		01/17/23 10:45	01/20/23 18:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 18:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 18:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				01/17/23 10:45	01/20/23 18:53	1
o-Terphenyl	117		70 - 130				01/17/23 10:45	01/20/23 18:53	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		4.96		mg/Kg			01/19/23 10:49	1

Client Sample ID: S-6 (2-2.5)

Lab Sample ID: 890-3839-21

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

Sample Depth: 2 - 2.5

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		01/16/23 13:58	01/18/23 09:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/16/23 13:58	01/18/23 09:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/16/23 13:58	01/18/23 09:43	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/16/23 13:58	01/18/23 09:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/16/23 13:58	01/18/23 09:43	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/16/23 13:58	01/18/23 09:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	01/16/23 13:58	01/18/23 09:43	1
1,4-Difluorobenzene (Surr)	103		70 - 130	01/16/23 13:58	01/18/23 09:43	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			01/19/23 14:42	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			01/18/23 14:10	1

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Client Sample Results

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

Client Sample ID: S-6 (2-2.5)
Date Collected: 01/12/23 00:00
Date Received: 01/13/23 12:17
Sample Depth: 2 - 2.5

Lab Sample ID: 890-3839-21
Matrix: Solid

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		01/16/23 14:04	01/17/23 20:16	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/16/23 14:04	01/17/23 20:16	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/16/23 14:04	01/17/23 20:16	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	112		70 - 130				01/16/23 14:04	01/17/23 20:16	1	
o-Terphenyl	108		70 - 130				01/16/23 14:04	01/17/23 20:16	1	

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	87.3		5.03		mg/Kg			01/18/23 14:11	1	

Surrogate Summary

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-3839-1	H-1	92	96
890-3839-1 MS	H-1	107	99
890-3839-1 MSD	H-1	98	101
890-3839-2	H-2	96	88
890-3839-3	H-3	94	94
890-3839-4	H-4	97	91
890-3839-5	H-5	109	83
890-3839-6	H-6	121	78
890-3839-7	H-7	123	82
890-3839-8	H-8	102	91
890-3839-9	H-9	100	81
890-3839-10	S-1 (1-1.5)	98	87
890-3839-11	S-1 (2-2.5)	74	89
890-3839-12	S-2 (1-1.5)	115	73
890-3839-13	S-2 (2-2.5)	127	82
890-3839-14	S-3 (1-1.5)	96	75
890-3839-15	S-3 (2-2.5)	102	66 S1-
890-3839-16	S-4 (1-1.5)	125	83
890-3839-17	S-4 (2-2.5)	100	92
890-3839-18	S-5 (1-1.5)	67 S1-	88
890-3839-19	S-5 (1-1.5)	98	86
890-3839-20	S-6 (1-1.5)	119	82
890-3839-21	S-6 (2-2.5)	122	103
890-3840-A-1-A MS	Matrix Spike	112	98
890-3840-A-1-B MSD	Matrix Spike Duplicate	119	102
LCS 880-43985/1-A	Lab Control Sample	118	102
LCS 880-43990/1-A	Lab Control Sample	129	89
LCSD 880-43985/2-A	Lab Control Sample Dup	114	99
LCSD 880-43990/2-A	Lab Control Sample Dup	102	107
MB 880-43985/5-A	Method Blank	116	99
MB 880-43988/5-A	Method Blank	114	98
MB 880-43990/5-A	Method Blank	83	87
MB 880-43991/5-A	Method Blank	85	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-3839-1	H-1	110	113
890-3839-1 MS	H-1	100	91
890-3839-1 MSD	H-1	103	99
890-3839-2	H-2	107	116
890-3839-3	H-3	100	103
890-3839-4	H-4	105	111

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Surrogate Summary

Client: NT Global

Job ID: 890-3839-1

Project/Site: Arcturus 18-8

SDG: 236740

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-3839-5	H-5	88	95
890-3839-6	H-6	85	89
890-3839-7	H-7	98	107
890-3839-8	H-8	101	110
890-3839-9	H-9	106	113
890-3839-10	S-1 (1-1.5)	96	107
890-3839-11	S-1 (2-2.5)	91	100
890-3839-12	S-2 (1-1.5)	91	99
890-3839-13	S-2 (2-2.5)	99	108
890-3839-14	S-3 (1-1.5)	106	114
890-3839-15	S-3 (2-2.5)	99	109
890-3839-16	S-4 (1-1.5)	91	102
890-3839-17	S-4 (2-2.5)	103	113
890-3839-18	S-5 (1-1.5)	89	100
890-3839-19	S-5 (1-1.5)	91	99
890-3839-20	S-6 (1-1.5)	109	117
890-3839-21	S-6 (2-2.5)	112	108
890-3843-A-1-D MS	Matrix Spike	90	78
890-3843-A-1-D MSD	Matrix Spike Duplicate	103	77
LCS 880-43987/2-A	Lab Control Sample	171 S1+	161 S1+
LCS 880-44145/2-A	Lab Control Sample	103	111
LCSD 880-43987/3-A	Lab Control Sample Dup	119	98
LCSD 880-44145/3-A	Lab Control Sample Dup	97	103
MB 880-43987/1-A	Method Blank	103	103
MB 880-44145/1-A	Method Blank	120	135 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43985/5-A

Matrix: Solid

Analysis Batch: 44130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43985

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/16/23 13:58	01/18/23 01:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/16/23 13:58	01/18/23 01:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/16/23 13:58	01/18/23 01:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/16/23 13:58	01/18/23 01:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/16/23 13:58	01/18/23 01:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/16/23 13:58	01/18/23 01:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	01/16/23 13:58	01/18/23 01:15	1
1,4-Difluorobenzene (Surr)	99		70 - 130	01/16/23 13:58	01/18/23 01:15	1

Lab Sample ID: LCS 880-43985/1-A

Matrix: Solid

Analysis Batch: 44130

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43985

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1135		mg/Kg		114	70 - 130
Toluene	0.100	0.1107		mg/Kg		111	70 - 130
Ethylbenzene	0.100	0.1073		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	0.200	0.2239		mg/Kg		112	70 - 130
o-Xylene	0.100	0.1081		mg/Kg		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-43985/2-A

Matrix: Solid

Analysis Batch: 44130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43985

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1007		mg/Kg		101	70 - 130	12	35
Toluene	0.100	0.09925		mg/Kg		99	70 - 130	11	35
Ethylbenzene	0.100	0.09608		mg/Kg		96	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.1978		mg/Kg		99	70 - 130	12	35
o-Xylene	0.100	0.09571		mg/Kg		96	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-3840-A-1-A MS

Matrix: Solid

Analysis Batch: 44130

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 43985

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.00366		0.0996	0.09115		mg/Kg		88	70 - 130
Toluene	0.00374		0.0996	0.08051		mg/Kg		77	70 - 130

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QC Sample Results

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

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

Lab Sample ID: 890-3840-A-1-A MS

Matrix: Solid

Analysis Batch: 44130

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 43985

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.00643		0.0996	0.07801		mg/Kg		72	70 - 130
m-Xylene & p-Xylene	0.00766		0.199	0.1601		mg/Kg		77	70 - 130
o-Xylene	0.00469		0.0996	0.08117		mg/Kg		77	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-3840-A-1-B MSD

Matrix: Solid

Analysis Batch: 44130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 43985

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.00366		0.0990	0.1007		mg/Kg		98	70 - 130	10	35
Toluene	0.00374		0.0990	0.08333		mg/Kg		80	70 - 130	3	35
Ethylbenzene	0.00643		0.0990	0.08322		mg/Kg		78	70 - 130	6	35
m-Xylene & p-Xylene	0.00766		0.198	0.1703		mg/Kg		82	70 - 130	6	35
o-Xylene	0.00469		0.0990	0.08859		mg/Kg		85	70 - 130	9	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-43988/5-A

Matrix: Solid

Analysis Batch: 44130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43988

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/16/23 14:20	01/17/23 12:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/16/23 14:20	01/17/23 12:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/16/23 14:20	01/17/23 12:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/16/23 14:20	01/17/23 12:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/16/23 14:20	01/17/23 12:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/16/23 14:20	01/17/23 12:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	01/16/23 14:20	01/17/23 12:24	1
1,4-Difluorobenzene (Surr)	98		70 - 130	01/16/23 14:20	01/17/23 12:24	1

Lab Sample ID: MB 880-43990/5-A

Matrix: Solid

Analysis Batch: 44129

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43990

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/16/23 14:28	01/17/23 23:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/16/23 14:28	01/17/23 23:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/16/23 14:28	01/17/23 23:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/16/23 14:28	01/17/23 23:05	1

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QC Sample Results

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

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

Lab Sample ID: MB 880-43990/5-A

Matrix: Solid

Analysis Batch: 44129

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43990

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/16/23 14:28	01/17/23 23:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/16/23 14:28	01/17/23 23:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	01/16/23 14:28	01/17/23 23:05	1
1,4-Difluorobenzene (Surr)	87		70 - 130	01/16/23 14:28	01/17/23 23:05	1

Lab Sample ID: LCS 880-43990/1-A

Matrix: Solid

Analysis Batch: 44129

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43990

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1036		mg/Kg		104	70 - 130
Toluene	0.100	0.1124		mg/Kg		112	70 - 130
Ethylbenzene	0.100	0.1116		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	0.200	0.2493		mg/Kg		125	70 - 130
o-Xylene	0.100	0.1467	*+	mg/Kg		147	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: LCSD 880-43990/2-A

Matrix: Solid

Analysis Batch: 44129

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43990

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1081		mg/Kg		108	70 - 130	4	35
Toluene	0.100	0.1040		mg/Kg		104	70 - 130	8	35
Ethylbenzene	0.100	0.09094		mg/Kg		91	70 - 130	20	35
m-Xylene & p-Xylene	0.200	0.1900		mg/Kg		95	70 - 130	27	35
o-Xylene	0.100	0.1086		mg/Kg		109	70 - 130	30	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-3839-1 MS

Matrix: Solid

Analysis Batch: 44129

Client Sample ID: H-1

Prep Type: Total/NA

Prep Batch: 43990

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.101	0.09355		mg/Kg		93	70 - 130
Toluene	<0.00201	U	0.101	0.09470		mg/Kg		94	70 - 130
Ethylbenzene	<0.00201	U	0.101	0.08496		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.202	0.1826		mg/Kg		91	70 - 130
o-Xylene	<0.00201	U *	0.101	0.1025		mg/Kg		102	70 - 130

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QC Sample Results

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

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

Lab Sample ID: 890-3839-1 MS

Matrix: Solid

Analysis Batch: 44129

Client Sample ID: H-1

Prep Type: Total/NA

Prep Batch: 43990

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-3839-1 MSD

Matrix: Solid

Analysis Batch: 44129

Client Sample ID: H-1

Prep Type: Total/NA

Prep Batch: 43990

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.08877		mg/Kg		90	70 - 130	5	35
Toluene	<0.00201	U	0.0990	0.08596		mg/Kg		87	70 - 130	10	35
Ethylbenzene	<0.00201	U	0.0990	0.07651		mg/Kg		77	70 - 130	10	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1574		mg/Kg		79	70 - 130	15	35
o-Xylene	<0.00201	U *	0.0990	0.08790		mg/Kg		89	70 - 130	15	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-43991/5-A

Matrix: Solid

Analysis Batch: 44129

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43991

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/16/23 14:35	01/17/23 12:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/16/23 14:35	01/17/23 12:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/16/23 14:35	01/17/23 12:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/16/23 14:35	01/17/23 12:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/16/23 14:35	01/17/23 12:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/16/23 14:35	01/17/23 12:29	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	85		70 - 130	01/16/23 14:35	01/17/23 12:29	1			
1,4-Difluorobenzene (Surr)	90		70 - 130	01/16/23 14:35	01/17/23 12:29	1			

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

Lab Sample ID: MB 880-43987/1-A

Matrix: Solid

Analysis Batch: 44121

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43987

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		01/16/23 14:04	01/17/23 11:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/16/23 14:04	01/17/23 11:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/16/23 14:04	01/17/23 11:49	1

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QC Sample Results

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

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

Lab Sample ID: MB 880-43987/1-A

Matrix: Solid

Analysis Batch: 44121

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43987

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	01/16/23 14:04	01/17/23 11:49	1
o-Terphenyl	103		70 - 130	01/16/23 14:04	01/17/23 11:49	1

Lab Sample ID: LCS 880-43987/2-A

Matrix: Solid

Analysis Batch: 44121

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43987

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	876.4		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	923.3		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	171	S1+	70 - 130
o-Terphenyl	161	S1+	70 - 130

Lab Sample ID: LCSD 880-43987/3-A

Matrix: Solid

Analysis Batch: 44121

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43987

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	990.8		mg/Kg		99	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	1000	842.9		mg/Kg		84	70 - 130	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: 890-3843-A-1-D MS

Matrix: Solid

Analysis Batch: 44121

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 43987

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	78		70 - 130

Lab Sample ID: 890-3843-A-1-D MSD

Matrix: Solid

Analysis Batch: 44121

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 43987

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	77		70 - 130

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QC Sample Results

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

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

Lab Sample ID: MB 880-44145/1-A

Matrix: Solid

Analysis Batch: 44410

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44145

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		01/17/23 10:45	01/20/23 08:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 08:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 08:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	01/17/23 10:45	01/20/23 08:13	1
o-Terphenyl	135	S1+	70 - 130	01/17/23 10:45	01/20/23 08:13	1

Lab Sample ID: LCS 880-44145/2-A

Matrix: Solid

Analysis Batch: 44410

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44145

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	903.1		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	1000	923.3		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	111		70 - 130

Lab Sample ID: LCSD 880-44145/3-A

Matrix: Solid

Analysis Batch: 44410

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44145

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	856.5		mg/Kg		86	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	855.1		mg/Kg		86	70 - 130	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: 890-3839-1 MS

Matrix: Solid

Analysis Batch: 44410

Client Sample ID: H-1

Prep Type: Total/NA

Prep Batch: 44145

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	998	1187		mg/Kg		119	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1066		mg/Kg		103	70 - 130

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QC Sample Results

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

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

Lab Sample ID: 890-3839-1 MS

Matrix: Solid

Analysis Batch: 44410

Client Sample ID: H-1

Prep Type: Total/NA

Prep Batch: 44145

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: 890-3839-1 MSD

Matrix: Solid

Analysis Batch: 44410

Client Sample ID: H-1

Prep Type: Total/NA

Prep Batch: 44145

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	997	904.8	F2	mg/Kg		91	70 - 130	27	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1110		mg/Kg		108	70 - 130	4	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	99		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44200/1-A

Matrix: Solid

Analysis Batch: 44257

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			01/18/23 13:54	1

Lab Sample ID: LCS 880-44200/2-A

Matrix: Solid

Analysis Batch: 44257

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	251.5		mg/Kg		101	90 - 110

Lab Sample ID: LCS 880-44200/3-A

Matrix: Solid

Analysis Batch: 44257

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	246.7		mg/Kg		99	90 - 110

Lab Sample ID: 890-3839-21 MS

Matrix: Solid

Analysis Batch: 44257

Client Sample ID: S-6 (2-2.5)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	87.3		252	328.0		mg/Kg		96	90 - 110

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QC Sample Results

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-3839-21 MSD

Matrix: Solid

Analysis Batch: 44257

Client Sample ID: S-6 (2-2.5)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	87.3		252	323.6		mg/Kg		94	90 - 110	1	20

Lab Sample ID: MB 880-44201/1-A

Matrix: Solid

Analysis Batch: 44278

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			01/19/23 07:45	1

Lab Sample ID: LCS 880-44201/2-A

Matrix: Solid

Analysis Batch: 44278

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	266.4		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-44201/3-A

Matrix: Solid

Analysis Batch: 44278

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	266.9		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 890-3839-1 MS

Matrix: Solid

Analysis Batch: 44278

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	62.6	F1	253	271.6	F1	mg/Kg		83	90 - 110

Lab Sample ID: 890-3839-1 MSD

Matrix: Solid

Analysis Batch: 44278

Client Sample ID: H-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	62.6	F1	253	272.4	F1	mg/Kg		83	90 - 110	0	20

Lab Sample ID: 890-3839-11 MS

Matrix: Solid

Analysis Batch: 44278

Client Sample ID: S-1 (2-2.5)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	130	F1	252	270.6	F1	mg/Kg		56	90 - 110

Lab Sample ID: 890-3839-11 MSD

Matrix: Solid

Analysis Batch: 44278

Client Sample ID: S-1 (2-2.5)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	130	F1	252	273.9	F1	mg/Kg		57	90 - 110	1	20

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QC Association Summary

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

GC VOA

Prep Batch: 43985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3839-21	S-6 (2-2.5)	Total/NA	Solid	5035	
MB 880-43985/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43985/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43985/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3840-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-3840-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 43988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-43988/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 43990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3839-1	H-1	Total/NA	Solid	5035	
890-3839-2	H-2	Total/NA	Solid	5035	
890-3839-3	H-3	Total/NA	Solid	5035	
890-3839-4	H-4	Total/NA	Solid	5035	
890-3839-5	H-5	Total/NA	Solid	5035	
890-3839-6	H-6	Total/NA	Solid	5035	
890-3839-7	H-7	Total/NA	Solid	5035	
890-3839-8	H-8	Total/NA	Solid	5035	
890-3839-9	H-9	Total/NA	Solid	5035	
890-3839-10	S-1 (1-1.5)	Total/NA	Solid	5035	
890-3839-11	S-1 (2-2.5)	Total/NA	Solid	5035	
890-3839-12	S-2 (1-1.5)	Total/NA	Solid	5035	
890-3839-13	S-2 (2-2.5)	Total/NA	Solid	5035	
890-3839-14	S-3 (1-1.5)	Total/NA	Solid	5035	
890-3839-15	S-3 (2-2.5)	Total/NA	Solid	5035	
890-3839-16	S-4 (1-1.5)	Total/NA	Solid	5035	
890-3839-17	S-4 (2-2.5)	Total/NA	Solid	5035	
890-3839-18	S-5 (1-1.5)	Total/NA	Solid	5035	
890-3839-19	S-5 (1-1.5)	Total/NA	Solid	5035	
890-3839-20	S-6 (1-1.5)	Total/NA	Solid	5035	
MB 880-43990/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43990/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43990/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3839-1 MS	H-1	Total/NA	Solid	5035	
890-3839-1 MSD	H-1	Total/NA	Solid	5035	

Prep Batch: 43991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-43991/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 44129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3839-1	H-1	Total/NA	Solid	8021B	43990
890-3839-2	H-2	Total/NA	Solid	8021B	43990
890-3839-3	H-3	Total/NA	Solid	8021B	43990
890-3839-4	H-4	Total/NA	Solid	8021B	43990
890-3839-5	H-5	Total/NA	Solid	8021B	43990
890-3839-6	H-6	Total/NA	Solid	8021B	43990

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QC Association Summary

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

GC VOA (Continued)

Analysis Batch: 44129 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3839-7	H-7	Total/NA	Solid	8021B	43990
890-3839-8	H-8	Total/NA	Solid	8021B	43990
890-3839-9	H-9	Total/NA	Solid	8021B	43990
890-3839-10	S-1 (1-1.5)	Total/NA	Solid	8021B	43990
890-3839-11	S-1 (2-2.5)	Total/NA	Solid	8021B	43990
890-3839-12	S-2 (1-1.5)	Total/NA	Solid	8021B	43990
890-3839-13	S-2 (2-2.5)	Total/NA	Solid	8021B	43990
890-3839-14	S-3 (1-1.5)	Total/NA	Solid	8021B	43990
890-3839-15	S-3 (2-2.5)	Total/NA	Solid	8021B	43990
890-3839-16	S-4 (1-1.5)	Total/NA	Solid	8021B	43990
890-3839-17	S-4 (2-2.5)	Total/NA	Solid	8021B	43990
890-3839-18	S-5 (1-1.5)	Total/NA	Solid	8021B	43990
890-3839-19	S-5 (1-1.5)	Total/NA	Solid	8021B	43990
890-3839-20	S-6 (1-1.5)	Total/NA	Solid	8021B	43990
MB 880-43990/5-A	Method Blank	Total/NA	Solid	8021B	43990
MB 880-43991/5-A	Method Blank	Total/NA	Solid	8021B	43991
LCS 880-43990/1-A	Lab Control Sample	Total/NA	Solid	8021B	43990
LCSD 880-43990/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43990
890-3839-1 MS	H-1	Total/NA	Solid	8021B	43990
890-3839-1 MSD	H-1	Total/NA	Solid	8021B	43990

Analysis Batch: 44130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3839-21	S-6 (2-2.5)	Total/NA	Solid	8021B	43985
MB 880-43985/5-A	Method Blank	Total/NA	Solid	8021B	43985
MB 880-43988/5-A	Method Blank	Total/NA	Solid	8021B	43988
LCS 880-43985/1-A	Lab Control Sample	Total/NA	Solid	8021B	43985
LCSD 880-43985/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43985
890-3840-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	43985
890-3840-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	43985

Analysis Batch: 44273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3839-1	H-1	Total/NA	Solid	Total BTEX	
890-3839-2	H-2	Total/NA	Solid	Total BTEX	
890-3839-3	H-3	Total/NA	Solid	Total BTEX	
890-3839-4	H-4	Total/NA	Solid	Total BTEX	
890-3839-5	H-5	Total/NA	Solid	Total BTEX	
890-3839-6	H-6	Total/NA	Solid	Total BTEX	
890-3839-7	H-7	Total/NA	Solid	Total BTEX	
890-3839-8	H-8	Total/NA	Solid	Total BTEX	
890-3839-9	H-9	Total/NA	Solid	Total BTEX	
890-3839-10	S-1 (1-1.5)	Total/NA	Solid	Total BTEX	
890-3839-11	S-1 (2-2.5)	Total/NA	Solid	Total BTEX	
890-3839-12	S-2 (1-1.5)	Total/NA	Solid	Total BTEX	
890-3839-13	S-2 (2-2.5)	Total/NA	Solid	Total BTEX	
890-3839-14	S-3 (1-1.5)	Total/NA	Solid	Total BTEX	
890-3839-15	S-3 (2-2.5)	Total/NA	Solid	Total BTEX	
890-3839-16	S-4 (1-1.5)	Total/NA	Solid	Total BTEX	
890-3839-17	S-4 (2-2.5)	Total/NA	Solid	Total BTEX	
890-3839-18	S-5 (1-1.5)	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

GC VOA (Continued)

Analysis Batch: 44273 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3839-19	S-5 (1-1.5)	Total/NA	Solid	Total BTEX	
890-3839-20	S-6 (1-1.5)	Total/NA	Solid	Total BTEX	
890-3839-21	S-6 (2-2.5)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 43987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3839-21	S-6 (2-2.5)	Total/NA	Solid	8015NM Prep	
MB 880-43987/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43987/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43987/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3843-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3843-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 44121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3839-21	S-6 (2-2.5)	Total/NA	Solid	8015B NM	43987
MB 880-43987/1-A	Method Blank	Total/NA	Solid	8015B NM	43987
LCS 880-43987/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43987
LCSD 880-43987/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43987
890-3843-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	43987
890-3843-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	43987

Prep Batch: 44145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3839-1	H-1	Total/NA	Solid	8015NM Prep	
890-3839-2	H-2	Total/NA	Solid	8015NM Prep	
890-3839-3	H-3	Total/NA	Solid	8015NM Prep	
890-3839-4	H-4	Total/NA	Solid	8015NM Prep	
890-3839-5	H-5	Total/NA	Solid	8015NM Prep	
890-3839-6	H-6	Total/NA	Solid	8015NM Prep	
890-3839-7	H-7	Total/NA	Solid	8015NM Prep	
890-3839-8	H-8	Total/NA	Solid	8015NM Prep	
890-3839-9	H-9	Total/NA	Solid	8015NM Prep	
890-3839-10	S-1 (1-1.5)	Total/NA	Solid	8015NM Prep	
890-3839-11	S-1 (2-2.5)	Total/NA	Solid	8015NM Prep	
890-3839-12	S-2 (1-1.5)	Total/NA	Solid	8015NM Prep	
890-3839-13	S-2 (2-2.5)	Total/NA	Solid	8015NM Prep	
890-3839-14	S-3 (1-1.5)	Total/NA	Solid	8015NM Prep	
890-3839-15	S-3 (2-2.5)	Total/NA	Solid	8015NM Prep	
890-3839-16	S-4 (1-1.5)	Total/NA	Solid	8015NM Prep	
890-3839-17	S-4 (2-2.5)	Total/NA	Solid	8015NM Prep	
890-3839-18	S-5 (1-1.5)	Total/NA	Solid	8015NM Prep	
890-3839-19	S-5 (1-1.5)	Total/NA	Solid	8015NM Prep	
890-3839-20	S-6 (1-1.5)	Total/NA	Solid	8015NM Prep	
MB 880-44145/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-44145/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-44145/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3839-1 MS	H-1	Total/NA	Solid	8015NM Prep	
890-3839-1 MSD	H-1	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

GC Semi VOA

Analysis Batch: 44261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3839-1	H-1	Total/NA	Solid	8015 NM	
890-3839-2	H-2	Total/NA	Solid	8015 NM	
890-3839-3	H-3	Total/NA	Solid	8015 NM	
890-3839-4	H-4	Total/NA	Solid	8015 NM	
890-3839-5	H-5	Total/NA	Solid	8015 NM	
890-3839-6	H-6	Total/NA	Solid	8015 NM	
890-3839-7	H-7	Total/NA	Solid	8015 NM	
890-3839-8	H-8	Total/NA	Solid	8015 NM	
890-3839-9	H-9	Total/NA	Solid	8015 NM	
890-3839-10	S-1 (1-1.5)	Total/NA	Solid	8015 NM	
890-3839-11	S-1 (2-2.5)	Total/NA	Solid	8015 NM	
890-3839-12	S-2 (1-1.5)	Total/NA	Solid	8015 NM	
890-3839-13	S-2 (2-2.5)	Total/NA	Solid	8015 NM	
890-3839-14	S-3 (1-1.5)	Total/NA	Solid	8015 NM	
890-3839-15	S-3 (2-2.5)	Total/NA	Solid	8015 NM	
890-3839-16	S-4 (1-1.5)	Total/NA	Solid	8015 NM	
890-3839-17	S-4 (2-2.5)	Total/NA	Solid	8015 NM	
890-3839-18	S-5 (1-1.5)	Total/NA	Solid	8015 NM	
890-3839-19	S-5 (1-1.5)	Total/NA	Solid	8015 NM	
890-3839-20	S-6 (1-1.5)	Total/NA	Solid	8015 NM	
890-3839-21	S-6 (2-2.5)	Total/NA	Solid	8015 NM	

Analysis Batch: 44410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3839-1	H-1	Total/NA	Solid	8015B NM	44145
890-3839-2	H-2	Total/NA	Solid	8015B NM	44145
890-3839-3	H-3	Total/NA	Solid	8015B NM	44145
890-3839-4	H-4	Total/NA	Solid	8015B NM	44145
890-3839-5	H-5	Total/NA	Solid	8015B NM	44145
890-3839-6	H-6	Total/NA	Solid	8015B NM	44145
890-3839-7	H-7	Total/NA	Solid	8015B NM	44145
890-3839-8	H-8	Total/NA	Solid	8015B NM	44145
890-3839-9	H-9	Total/NA	Solid	8015B NM	44145
890-3839-10	S-1 (1-1.5)	Total/NA	Solid	8015B NM	44145
890-3839-11	S-1 (2-2.5)	Total/NA	Solid	8015B NM	44145
890-3839-12	S-2 (1-1.5)	Total/NA	Solid	8015B NM	44145
890-3839-13	S-2 (2-2.5)	Total/NA	Solid	8015B NM	44145
890-3839-14	S-3 (1-1.5)	Total/NA	Solid	8015B NM	44145
890-3839-15	S-3 (2-2.5)	Total/NA	Solid	8015B NM	44145
890-3839-16	S-4 (1-1.5)	Total/NA	Solid	8015B NM	44145
890-3839-17	S-4 (2-2.5)	Total/NA	Solid	8015B NM	44145
890-3839-18	S-5 (1-1.5)	Total/NA	Solid	8015B NM	44145
890-3839-19	S-5 (1-1.5)	Total/NA	Solid	8015B NM	44145
890-3839-20	S-6 (1-1.5)	Total/NA	Solid	8015B NM	44145
MB 880-44145/1-A	Method Blank	Total/NA	Solid	8015B NM	44145
LCS 880-44145/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	44145
LCSD 880-44145/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	44145
890-3839-1 MS	H-1	Total/NA	Solid	8015B NM	44145
890-3839-1 MSD	H-1	Total/NA	Solid	8015B NM	44145

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QC Association Summary

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

HPLC/IC

Leach Batch: 44200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3839-21	S-6 (2-2.5)	Soluble	Solid	DI Leach	
MB 880-44200/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44200/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCS 880-44200/3-A	Lab Control Sample	Soluble	Solid	DI Leach	
890-3839-21 MS	S-6 (2-2.5)	Soluble	Solid	DI Leach	
890-3839-21 MSD	S-6 (2-2.5)	Soluble	Solid	DI Leach	

Leach Batch: 44201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3839-1	H-1	Soluble	Solid	DI Leach	
890-3839-2	H-2	Soluble	Solid	DI Leach	
890-3839-3	H-3	Soluble	Solid	DI Leach	
890-3839-4	H-4	Soluble	Solid	DI Leach	
890-3839-5	H-5	Soluble	Solid	DI Leach	
890-3839-6	H-6	Soluble	Solid	DI Leach	
890-3839-7	H-7	Soluble	Solid	DI Leach	
890-3839-8	H-8	Soluble	Solid	DI Leach	
890-3839-9	H-9	Soluble	Solid	DI Leach	
890-3839-10	S-1 (1-1.5)	Soluble	Solid	DI Leach	
890-3839-11	S-1 (2-2.5)	Soluble	Solid	DI Leach	
890-3839-12	S-2 (1-1.5)	Soluble	Solid	DI Leach	
890-3839-13	S-2 (2-2.5)	Soluble	Solid	DI Leach	
890-3839-14	S-3 (1-1.5)	Soluble	Solid	DI Leach	
890-3839-15	S-3 (2-2.5)	Soluble	Solid	DI Leach	
890-3839-16	S-4 (1-1.5)	Soluble	Solid	DI Leach	
890-3839-17	S-4 (2-2.5)	Soluble	Solid	DI Leach	
890-3839-18	S-5 (1-1.5)	Soluble	Solid	DI Leach	
890-3839-19	S-5 (1-1.5)	Soluble	Solid	DI Leach	
890-3839-20	S-6 (1-1.5)	Soluble	Solid	DI Leach	
MB 880-44201/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44201/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44201/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3839-1 MS	H-1	Soluble	Solid	DI Leach	
890-3839-1 MSD	H-1	Soluble	Solid	DI Leach	
890-3839-11 MS	S-1 (2-2.5)	Soluble	Solid	DI Leach	
890-3839-11 MSD	S-1 (2-2.5)	Soluble	Solid	DI Leach	

Analysis Batch: 44257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3839-21	S-6 (2-2.5)	Soluble	Solid	300.0	44200
MB 880-44200/1-A	Method Blank	Soluble	Solid	300.0	44200
LCS 880-44200/2-A	Lab Control Sample	Soluble	Solid	300.0	44200
LCS 880-44200/3-A	Lab Control Sample	Soluble	Solid	300.0	44200
890-3839-21 MS	S-6 (2-2.5)	Soluble	Solid	300.0	44200
890-3839-21 MSD	S-6 (2-2.5)	Soluble	Solid	300.0	44200

Analysis Batch: 44278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3839-1	H-1	Soluble	Solid	300.0	44201
890-3839-2	H-2	Soluble	Solid	300.0	44201
890-3839-3	H-3	Soluble	Solid	300.0	44201

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QC Association Summary

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

HPLC/IC (Continued)

Analysis Batch: 44278 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3839-4	H-4	Soluble	Solid	300.0	44201
890-3839-5	H-5	Soluble	Solid	300.0	44201
890-3839-6	H-6	Soluble	Solid	300.0	44201
890-3839-7	H-7	Soluble	Solid	300.0	44201
890-3839-8	H-8	Soluble	Solid	300.0	44201
890-3839-9	H-9	Soluble	Solid	300.0	44201
890-3839-10	S-1 (1-1.5)	Soluble	Solid	300.0	44201
890-3839-11	S-1 (2-2.5)	Soluble	Solid	300.0	44201
890-3839-12	S-2 (1-1.5)	Soluble	Solid	300.0	44201
890-3839-13	S-2 (2-2.5)	Soluble	Solid	300.0	44201
890-3839-14	S-3 (1-1.5)	Soluble	Solid	300.0	44201
890-3839-15	S-3 (2-2.5)	Soluble	Solid	300.0	44201
890-3839-16	S-4 (1-1.5)	Soluble	Solid	300.0	44201
890-3839-17	S-4 (2-2.5)	Soluble	Solid	300.0	44201
890-3839-18	S-5 (1-1.5)	Soluble	Solid	300.0	44201
890-3839-19	S-5 (1-1.5)	Soluble	Solid	300.0	44201
890-3839-20	S-6 (1-1.5)	Soluble	Solid	300.0	44201
MB 880-44201/1-A	Method Blank	Soluble	Solid	300.0	44201
LCS 880-44201/2-A	Lab Control Sample	Soluble	Solid	300.0	44201
LCSD 880-44201/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44201
890-3839-1 MS	H-1	Soluble	Solid	300.0	44201
890-3839-1 MSD	H-1	Soluble	Solid	300.0	44201
890-3839-11 MS	S-1 (2-2.5)	Soluble	Solid	300.0	44201
890-3839-11 MSD	S-1 (2-2.5)	Soluble	Solid	300.0	44201

Lab Chronicle

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

Client Sample ID: H-1
Date Collected: 01/12/23 00:00
Date Received: 01/13/23 12:17

Lab Sample ID: 890-3839-1
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			4.97 g	5 mL	43990	01/16/23 14:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44129	01/17/23 23:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44273	01/18/23 14:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			44261	01/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44145	01/17/23 10:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44410	01/20/23 10:50	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	44201	01/17/23 16:53	KS	EET MID
Soluble	Analysis	300.0		1			44278	01/19/23 08:03	CH	EET MID

Client Sample ID: H-2
Date Collected: 01/12/23 00:00
Date Received: 01/13/23 12:17

Lab Sample ID: 890-3839-2
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			4.95 g	5 mL	43990	01/16/23 14:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44129	01/17/23 23:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44273	01/18/23 14:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			44261	01/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	44145	01/17/23 10:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44410	01/20/23 11:56	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	44201	01/17/23 16:53	KS	EET MID
Soluble	Analysis	300.0		1			44278	01/19/23 08:22	CH	EET MID

Client Sample ID: H-3
Date Collected: 01/12/23 00:00
Date Received: 01/13/23 12:17

Lab Sample ID: 890-3839-3
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			5.02 g	5 mL	43990	01/16/23 14:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44129	01/18/23 00:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44273	01/18/23 14:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			44261	01/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44145	01/17/23 10:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44410	01/20/23 12:18	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44201	01/17/23 16:53	KS	EET MID
Soluble	Analysis	300.0		1			44278	01/19/23 08:28	CH	EET MID

Client Sample ID: H-4
Date Collected: 01/12/23 00:00
Date Received: 01/13/23 12:17

Lab Sample ID: 890-3839-4
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	43990	01/16/23 14:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44129	01/18/23 00:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44273	01/18/23 14:26	SM	EET MID

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Lab Chronicle

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

Client Sample ID: H-4

Lab Sample ID: 890-3839-4

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

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			44261	01/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	44145	01/17/23 10:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44410	01/20/23 12:40	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	44201	01/17/23 16:53	KS	EET MID
Soluble	Analysis	300.0		1			44278	01/19/23 08:34	CH	EET MID

Client Sample ID: H-5

Lab Sample ID: 890-3839-5

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

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	43990	01/16/23 14:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44129	01/18/23 00:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44273	01/18/23 14:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			44261	01/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44145	01/17/23 10:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44410	01/20/23 13:02	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	44201	01/17/23 16:53	KS	EET MID
Soluble	Analysis	300.0		1			44278	01/19/23 08:40	CH	EET MID

Client Sample ID: H-6

Lab Sample ID: 890-3839-6

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

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	43990	01/16/23 14:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44129	01/18/23 01:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44273	01/18/23 14:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			44261	01/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44145	01/17/23 10:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44410	01/20/23 13:25	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	44201	01/17/23 16:53	KS	EET MID
Soluble	Analysis	300.0		1			44278	01/19/23 08:59	CH	EET MID

Client Sample ID: H-7

Lab Sample ID: 890-3839-7

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	43990	01/16/23 14:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44129	01/18/23 01:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44273	01/18/23 14:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			44261	01/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44145	01/17/23 10:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44410	01/20/23 13:46	SM	EET MID

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Lab Chronicle

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

Client Sample ID: H-7
Date Collected: 01/12/23 00:00
Date Received: 01/13/23 12:17

Lab Sample ID: 890-3839-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	44201	01/17/23 16:53	KS	EET MID
Soluble	Analysis	300.0		1			44278	01/19/23 09:05	CH	EET MID

Client Sample ID: H-8
Date Collected: 01/12/23 00:00
Date Received: 01/13/23 12:17

Lab Sample ID: 890-3839-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	43990	01/16/23 14:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44129	01/18/23 01:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44273	01/18/23 14:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			44261	01/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	44145	01/17/23 10:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44410	01/20/23 14:09	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	44201	01/17/23 16:53	KS	EET MID
Soluble	Analysis	300.0		1			44278	01/19/23 09:11	CH	EET MID

Client Sample ID: H-9
Date Collected: 01/12/23 00:00
Date Received: 01/13/23 12:17

Lab Sample ID: 890-3839-9
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	43990	01/16/23 14:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44129	01/18/23 02:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44273	01/18/23 14:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			44261	01/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44145	01/17/23 10:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44410	01/20/23 14:31	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	44201	01/17/23 16:53	KS	EET MID
Soluble	Analysis	300.0		1			44278	01/19/23 09:17	CH	EET MID

Client Sample ID: S-1 (1-1.5)
Date Collected: 01/12/23 00:00
Date Received: 01/13/23 12:17

Lab Sample ID: 890-3839-10
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			5.02 g	5 mL	43990	01/16/23 14:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44129	01/18/23 02:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44273	01/18/23 14:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			44261	01/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44145	01/17/23 10:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44410	01/20/23 14:53	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	44201	01/17/23 16:53	KS	EET MID
Soluble	Analysis	300.0		1			44278	01/19/23 09:23	CH	EET MID

Lab Chronicle

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

Client Sample ID: S-1 (2-2.5)
Date Collected: 01/12/23 00:00
Date Received: 01/13/23 12:17

Lab Sample ID: 890-3839-11
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			5.01 g	5 mL	43990	01/16/23 14:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44129	01/18/23 03:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44273	01/18/23 14:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			44261	01/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44145	01/17/23 10:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44410	01/20/23 15:37	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	44201	01/17/23 16:53	KS	EET MID
Soluble	Analysis	300.0		1			44278	01/19/23 09:29	CH	EET MID

Client Sample ID: S-2 (1-1.5)
Date Collected: 01/12/23 00:00
Date Received: 01/13/23 12:17

Lab Sample ID: 890-3839-12
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			4.99 g	5 mL	43990	01/16/23 14:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44129	01/18/23 04:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44273	01/18/23 14:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			44261	01/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44145	01/17/23 10:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44410	01/20/23 15:59	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	44201	01/17/23 16:53	KS	EET MID
Soluble	Analysis	300.0		1			44278	01/19/23 09:48	CH	EET MID

Client Sample ID: S-2 (2-2.5)
Date Collected: 01/12/23 00:00
Date Received: 01/13/23 12:17

Lab Sample ID: 890-3839-13
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			5.02 g	5 mL	43990	01/16/23 14:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44129	01/18/23 04:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44273	01/18/23 14:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			44261	01/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44145	01/17/23 10:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44410	01/20/23 16:20	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	44201	01/17/23 16:53	KS	EET MID
Soluble	Analysis	300.0		1			44278	01/19/23 09:54	CH	EET MID

Client Sample ID: S-3 (1-1.5)
Date Collected: 01/12/23 00:00
Date Received: 01/13/23 12:17

Lab Sample ID: 890-3839-14
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	43990	01/16/23 14:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44129	01/18/23 04:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44273	01/18/23 14:26	SM	EET MID

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Lab Chronicle

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

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

Lab Sample ID: 890-3839-14

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

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			44261	01/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44145	01/17/23 10:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44410	01/20/23 16:42	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44201	01/17/23 16:53	KS	EET MID
Soluble	Analysis	300.0		5			44278	01/19/23 10:12	CH	EET MID

Client Sample ID: S-3 (2-2.5)

Lab Sample ID: 890-3839-15

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

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	43990	01/16/23 14:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44129	01/18/23 05:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44273	01/18/23 14:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			44261	01/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44145	01/17/23 10:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44410	01/20/23 17:05	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	44201	01/17/23 16:53	KS	EET MID
Soluble	Analysis	300.0		1			44278	01/19/23 10:19	CH	EET MID

Client Sample ID: S-4 (1-1.5)

Lab Sample ID: 890-3839-16

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

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	43990	01/16/23 14:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44129	01/18/23 05:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44273	01/18/23 14:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			44261	01/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44145	01/17/23 10:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44410	01/20/23 17:27	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	44201	01/17/23 16:53	KS	EET MID
Soluble	Analysis	300.0		1			44278	01/19/23 10:25	CH	EET MID

Client Sample ID: S-4 (2-2.5)

Lab Sample ID: 890-3839-17

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

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	43990	01/16/23 14:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44129	01/18/23 05:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44273	01/18/23 14:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			44261	01/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44145	01/17/23 10:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44410	01/20/23 17:48	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

Client Sample ID: S-4 (2-2.5)

Lab Sample ID: 890-3839-17

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	44201	01/17/23 16:53	KS	EET MID
Soluble	Analysis	300.0		1			44278	01/19/23 10:31	CH	EET MID

Client Sample ID: S-5 (1-1.5)

Lab Sample ID: 890-3839-18

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

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	43990	01/16/23 14:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44129	01/18/23 06:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44273	01/18/23 14:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			44261	01/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44145	01/17/23 10:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44410	01/20/23 18:09	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	44201	01/17/23 16:53	KS	EET MID
Soluble	Analysis	300.0		1			44278	01/19/23 10:37	CH	EET MID

Client Sample ID: S-5 (1-1.5)

Lab Sample ID: 890-3839-19

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

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	43990	01/16/23 14:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44129	01/18/23 06:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44273	01/18/23 14:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			44261	01/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44145	01/17/23 10:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44410	01/20/23 18:31	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	44201	01/17/23 16:53	KS	EET MID
Soluble	Analysis	300.0		1			44278	01/19/23 10:43	CH	EET MID

Client Sample ID: S-6 (1-1.5)

Lab Sample ID: 890-3839-20

Date Collected: 01/12/23 00:00

Matrix: Solid

Date Received: 01/13/23 12:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	43990	01/16/23 14:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44129	01/18/23 06:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44273	01/18/23 14:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			44261	01/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	44145	01/17/23 10:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44410	01/20/23 18:53	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	44201	01/17/23 16:53	KS	EET MID
Soluble	Analysis	300.0		1			44278	01/19/23 10:49	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

Client Sample ID: S-6 (2-2.5)
Date Collected: 01/12/23 00:00
Date Received: 01/13/23 12:17

Lab Sample ID: 890-3839-21
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			4.99 g	5 mL	43985	01/16/23 13:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44130	01/18/23 09:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44273	01/19/23 14:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			44261	01/18/23 14:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43987	01/16/23 14:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44121	01/17/23 20:16	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	44200	01/17/23 16:52	KS	EET MID
Soluble	Analysis	300.0		1			44257	01/18/23 14:11	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: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

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	T104704400-22-25	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

Method Summary

Client: NT Global
Project/Site: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

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: Arcturus 18-8

Job ID: 890-3839-1
SDG: 236740

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3839-1	H-1	Solid	01/12/23 00:00	01/13/23 12:17	
890-3839-2	H-2	Solid	01/12/23 00:00	01/13/23 12:17	
890-3839-3	H-3	Solid	01/12/23 00:00	01/13/23 12:17	
890-3839-4	H-4	Solid	01/12/23 00:00	01/13/23 12:17	
890-3839-5	H-5	Solid	01/12/23 00:00	01/13/23 12:17	
890-3839-6	H-6	Solid	01/12/23 00:00	01/13/23 12:17	
890-3839-7	H-7	Solid	01/12/23 00:00	01/13/23 12:17	
890-3839-8	H-8	Solid	01/12/23 00:00	01/13/23 12:17	
890-3839-9	H-9	Solid	01/12/23 00:00	01/13/23 12:17	
890-3839-10	S-1 (1-1.5)	Solid	01/12/23 00:00	01/13/23 12:17	1 - 1.5
890-3839-11	S-1 (2-2.5)	Solid	01/12/23 00:00	01/13/23 12:17	2 - 2.5
890-3839-12	S-2 (1-1.5)	Solid	01/12/23 00:00	01/13/23 12:17	1 - 1.5
890-3839-13	S-2 (2-2.5)	Solid	01/12/23 00:00	01/13/23 12:17	2 - 2.5
890-3839-14	S-3 (1-1.5)	Solid	01/12/23 00:00	01/13/23 12:17	1 - 1.5
890-3839-15	S-3 (2-2.5)	Solid	01/12/23 00:00	01/13/23 12:17	2 - 2.5
890-3839-16	S-4 (1-1.5)	Solid	01/12/23 00:00	01/13/23 12:17	1 - 1.5
890-3839-17	S-4 (2-2.5)	Solid	01/12/23 00:00	01/13/23 12:17	2 - 2.5
890-3839-18	S-5 (1-1.5)	Solid	01/12/23 00:00	01/13/23 12:17	1 - 1.5
890-3839-19	S-5 (1-1.5)	Solid	01/12/23 00:00	01/13/23 12:17	1 - 1.5
890-3839-20	S-6 (1-1.5)	Solid	01/12/23 00:00	01/13/23 12:17	1 - 1.5
890-3839-21	S-6 (2-2.5)	Solid	01/12/23 00:00	01/13/23 12:17	2 - 2.5



Chain of Custody

Work Order No: _____

Page 1 of 3

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:	Wesley.Matthews@dyn.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: _____	

[illegible][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 \$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>	1-13-23 12:17	2		
3			4		
5			6		



Chain of Custody

Work Order No: _____

Page 2 of 3

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:	Wesley Matthews@devon.com

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund
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
Deliverables: EDD	<input type="checkbox"/> ADAPT <input type="checkbox"/> Other:

Project Name:	Arclurus 18-8	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST												Preservative Codes			
Project Number:	236740	Due Date:															None: NO	DI Water: H ₂ O		
Project Location:	Eddy Co. NM																Cool: Cool	MeOH: Me		
Sample's Name:	Jordan Tyner																HCL: HC	HNO ₃ : HN		
PO #:	21104277																H ₂ SO ₄ : H ₂	NaOH: Na		
SAMPLE RECEIPT	Temp Blank:	Yes	No	Well log	Yes	No													H ₃ PO ₄ : HP	
Received Intact:	Yes	No		Thermometer ID:															NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:															Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:	Yes	No	N/A	Temperature Reading:															Zn Acetate+NaOH: Zn	
Total Containers:	21			Corrected Temperature:															NaOH+Ascorbic Acid: SAPC	

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters												Sample Comments	
S-1 (2-2.5)	1/12/2023		X		Comp	1	BTEX 8021B													
S-2 (1-1.5)	1/12/2023		X		Comp	1	TPH 8015M (GRO + DRO + MRO)													
S-2 (2-2.5)	1/12/2023		X		Comp	1	Chloride 4500													
S-3 (1-1.5)	1/12/2023		X		Comp	1														
S-3 (2-2.5)	1/12/2023		X		Comp	1														
S-4 (1-1.5)	1/12/2023		X		Comp	1														
S-4 (2-2.5)	1/12/2023		X		Comp	1														
S-5 (1-1.5)	1/12/2023		X		Comp	1														
S-5 (1-1.5)	1/12/2023		X		Comp	1														
S-6 (1-1.5)	1/12/2023		X		Comp	1														

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>Wesley Matthews</i>	2 <i>Ethan Sessums</i>	2			
3		4			
5		6			



Chain of Custody

Work Order No: _____

Page 3 of 3

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:	Wesley.Matthews@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: EDO <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

[illegible]

Login Sample Receipt Checklist

Client: NT Global

Job Number: 890-3839-1

SDG Number: 236740

Login Number: 3839

List Number: 1

Creator: Clifton, Cloe

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: 890-3839-1

SDG Number: 236740

Login Number: 3839

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 01/16/23 02:06 PM

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

March 28, 2023

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: ARCTURUS 18 FED COM 8H

Enclosed are the results of analyses for samples received by the laboratory on 03/22/23 14:10.

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/22/2023
 Reported: 03/28/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VDS - 1 (1') (H231322-01)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.01	101	2.00	1.25	
Toluene*	<0.050	0.050	03/24/2023	ND	2.03	102	2.00	0.780	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.03	101	2.00	0.839	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.10	102	6.00	1.22	
Total BTX	<0.300	0.300	03/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	03/27/2023	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	185	92.7	200	14.2	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	183	91.7	200	9.94	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/22/2023
 Reported: 03/28/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VDS - 1 (2') (H231322-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2023	ND	2.01	101	2.00	1.25		
Toluene*	<0.050	0.050	03/24/2023	ND	2.03	102	2.00	0.780		
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.03	101	2.00	0.839		
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.10	102	6.00	1.22		
Total BTEx	<0.300	0.300	03/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	03/27/2023	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	185	92.7	200	14.2	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	183	91.7	200	9.94	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 70.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/22/2023
 Reported: 03/28/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VDS - 1 (3') (H231322-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2023	ND	2.01	101	2.00	1.25		
Toluene*	<0.050	0.050	03/24/2023	ND	2.03	102	2.00	0.780		
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.03	101	2.00	0.839		
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.10	102	6.00	1.22		
Total BTEx	<0.300	0.300	03/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	03/27/2023	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	185	92.7	200	14.2	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	183	91.7	200	9.94	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 143 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/22/2023
 Reported: 03/28/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VDS - 1 (4') (H231322-04)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.01	101	2.00	1.25	
Toluene*	<0.050	0.050	03/24/2023	ND	2.03	102	2.00	0.780	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.03	101	2.00	0.839	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.10	102	6.00	1.22	
Total BTEx	<0.300	0.300	03/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	03/27/2023	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	185	92.7	200	14.2	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	183	91.7	200	9.94	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/22/2023
 Reported: 03/28/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VDS - 1 (5') (H231322-05)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.01	101	2.00	1.25	
Toluene*	<0.050	0.050	03/24/2023	ND	2.03	102	2.00	0.780	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.03	101	2.00	0.839	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.10	102	6.00	1.22	
Total BTEx	<0.300	0.300	03/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	03/27/2023	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	185	92.7	200	14.2	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	183	91.7	200	9.94	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/22/2023
 Reported: 03/28/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VDS - 2 (1') (H231322-06)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2023	ND	2.01	101	2.00	1.25		
Toluene*	<0.050	0.050	03/24/2023	ND	2.03	102	2.00	0.780		
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.03	101	2.00	0.839		
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.10	102	6.00	1.22		
Total BTEx	<0.300	0.300	03/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	03/27/2023	ND	432	108	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/22/2023
 Reported: 03/28/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VDS - 2 (2') (H231322-07)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.01	101	2.00	1.25	
Toluene*	<0.050	0.050	03/24/2023	ND	2.03	102	2.00	0.780	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.03	101	2.00	0.839	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.10	102	6.00	1.22	
Total BTEx	<0.300	0.300	03/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/22/2023
 Reported: 03/28/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VDS - 2 (3') (H231322-08)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2023	ND	2.01	101	2.00	1.25		
Toluene*	<0.050	0.050	03/24/2023	ND	2.03	102	2.00	0.780		
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.03	101	2.00	0.839		
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.10	102	6.00	1.22		
Total BTEx	<0.300	0.300	03/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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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
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/22/2023
 Reported: 03/28/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VDS - 2 (4') (H231322-09)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.01	101	2.00	1.25	
Toluene*	<0.050	0.050	03/24/2023	ND	2.03	102	2.00	0.780	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.03	101	2.00	0.839	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.10	102	6.00	1.22	
Total BTEx	<0.300	0.300	03/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	182	90.8	200	32.9	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	172	86.1	200	36.2	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/22/2023
 Reported: 03/28/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VDS - 2 (5') (H231322-10)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2023	ND	2.01	101	2.00	1.25		
Toluene*	<0.050	0.050	03/24/2023	ND	2.03	102	2.00	0.780		
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.03	101	2.00	0.839		
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.10	102	6.00	1.22		
Total BTEx	<0.300	0.300	03/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	03/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	182	90.8	200	32.9	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	172	86.1	200	36.2	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/22/2023
 Reported: 03/28/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VDS - 3 (1') (H231322-11)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2023	ND	2.01	101	2.00	1.25		
Toluene*	<0.050	0.050	03/24/2023	ND	2.03	102	2.00	0.780		
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.03	101	2.00	0.839		
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.10	102	6.00	1.22		
Total BTEx	<0.300	0.300	03/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/27/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	182	90.8	200	32.9	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	172	86.1	200	36.2	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/22/2023
 Reported: 03/28/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VDS - 3 (2') (H231322-12)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.01	101	2.00	1.25	
Toluene*	<0.050	0.050	03/24/2023	ND	2.03	102	2.00	0.780	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.03	101	2.00	0.839	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.10	102	6.00	1.22	
Total BTEx	<0.300	0.300	03/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	182	90.8	200	32.9	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	172	86.1	200	36.2	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/22/2023
 Reported: 03/28/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VDS - 3 (3') (H231322-13)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.01	101	2.00	1.25	
Toluene*	<0.050	0.050	03/24/2023	ND	2.03	102	2.00	0.780	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.03	101	2.00	0.839	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.10	102	6.00	1.22	
Total BTEx	<0.300	0.300	03/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	182	90.8	200	32.9	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	172	86.1	200	36.2	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/22/2023
 Reported: 03/28/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VDS - 3 (4') (H231322-14)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2023	ND	2.01	101	2.00	1.25		
Toluene*	<0.050	0.050	03/24/2023	ND	2.03	102	2.00	0.780		
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.03	101	2.00	0.839		
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.10	102	6.00	1.22		
Total BTEx	<0.300	0.300	03/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	182	90.8	200	32.9	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	172	86.1	200	36.2	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/22/2023
 Reported: 03/28/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VDS - 3 (5') (H231322-15)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.01	101	2.00	1.25	
Toluene*	<0.050	0.050	03/24/2023	ND	2.03	102	2.00	0.780	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.03	101	2.00	0.839	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.10	102	6.00	1.22	
Total BTEX	<0.300	0.300	03/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	182	90.8	200	32.9	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	172	86.1	200	36.2	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/22/2023
 Reported: 03/28/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VDS - 4 (1') (H231322-16)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2023	ND	2.01	101	2.00	1.25		
Toluene*	<0.050	0.050	03/24/2023	ND	2.03	102	2.00	0.780		
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.03	101	2.00	0.839		
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.10	102	6.00	1.22		
Total BTEx	<0.300	0.300	03/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	03/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	182	90.8	200	32.9	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	172	86.1	200	36.2	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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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
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/22/2023
 Reported: 03/28/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VDS - 4 (2') (H231322-17)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2023	ND	2.06	103	2.00	7.06		
Toluene*	<0.050	0.050	03/24/2023	ND	2.13	106	2.00	8.27		
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.11	106	2.00	6.57		
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.37	106	6.00	5.18		
Total BTEx	<0.300	0.300	03/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	182	90.8	200	32.9	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	172	86.1	200	36.2	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/22/2023
 Reported: 03/28/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VDS - 4 (3') (H231322-18)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2023	ND	2.06	103	2.00	7.06		
Toluene*	<0.050	0.050	03/24/2023	ND	2.13	106	2.00	8.27		
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.11	106	2.00	6.57		
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.37	106	6.00	5.18		
Total BTEx	<0.300	0.300	03/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	182	90.8	200	32.9	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	172	86.1	200	36.2	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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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
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/22/2023
 Reported: 03/28/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VDS - 4 (4') (H231322-19)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/25/2023	ND	2.06	103	2.00	7.06		
Toluene*	<0.050	0.050	03/25/2023	ND	2.13	106	2.00	8.27		
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.11	106	2.00	6.57		
Total Xylenes*	<0.150	0.150	03/25/2023	ND	6.37	106	6.00	5.18		
Total BTEx	<0.300	0.300	03/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	182	90.8	200	32.9	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	172	86.1	200	36.2	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/22/2023
 Reported: 03/28/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VDS - 4 (5') (H231322-20)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/25/2023	ND	2.06	103	2.00	7.06		
Toluene*	<0.050	0.050	03/25/2023	ND	2.13	106	2.00	8.27		
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.11	106	2.00	6.57		
Total Xylenes*	<0.150	0.150	03/25/2023	ND	6.37	106	6.00	5.18		
Total BTEx	<0.300	0.300	03/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	182	90.8	200	32.9	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	172	86.1	200	36.2	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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:

4231322

Page 1 of 2

Page 23 of 24

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

Project Name:	Arturus K Felcom 8H	<input checked="" type="checkbox"/> Turn Around	<input type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST										Preservative Codes	
Project Number:	236740														None: NO	
Project Location:	Edley Co. NM	Due Date:	TAT starts the day received by the lab, if received by 4:30pm												DI Water: H ₂ O	
Sample's Name:	Kellan Smith														Cool: Cool	
PO #:															HCL: HC	
															H ₂ SO ₄ : H ₂	
															H ₃ PO ₄ : HP	
															NaHSO ₄ : NABIS	
															Na ₂ S ₂ O ₃ : NaSO ₃	
															Zn Acetate+NaOH: Zn	
															NaOH+Ascorbic Acid: SAPC	

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	BTX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	Sample Comments
VDS-1 (1')	3/22/23		X		(60)	1		X	X	X	
VDS-1 (2')											
VDS-1 (3')											
VDS-1 (4')											
VDS-1 (5')											
VDS-2 (1')											
VDS-2 (2')											
VDS-2 (3')											
VDS-2 (4')											
VDS-2 (5')											

Additional Comments: (Email ESessums@ntgglobal.com for PO#.)

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	3-22-23 1410	2		
3			4		
5			6		

Work Order No: 4231322

Page 2 of 2

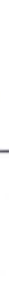

Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	Wesley.Mathews@dyn.com

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:		Actarus 18 Follon 84		Turn Around		Pres. Code		ANALYSIS REQUEST															
Project Number:		236740		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush		Due Date:		TAT starts the day received by the lab, if received by 4:30pm															
Project Location:		Cddy Co N/A																					
Sampler's Name:		Kellie Smith																					
PO #:																							
SAMPLE RECEIPT				Temp Blank:		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		Wet Ice:		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		Parameters											
Received Intact:				Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		Thermometer ID:		N/A		-0.6°C													
Cooler Custody Seals:				Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		Correction Factor:		N/A		4.3°C													
Sample Custody Seals:				Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		Temperature Reading:		N/A		5.7°C													
Total Containers:						Corrected Temperature:																	
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont											
VDS-3 (1')		3/24/23				X		Grab		1		X											
VDS-3 (2')												X											
VDS-3 (3')												X											
VDS-3 (4')																							
VDS-3 (5')																							
VDS-4 (1')																							
VDS-4 (2')																							
VDS-4 (3')																							
VDS-4 (4')																							
VDS-4 (5')																							
														BTEX 8021B TPH 8015M (GRO + DRO + MRO) Chloride 4500 HOLD None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC									
Sample Comments																							

Email essensuns@ntglobal.com for POTH.

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	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			3-28-23 1410			
2						
3						
4						
5						

Revised Date 05/01/2020 Rev. 2020



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

April 03, 2023

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: ARCTURUS 18 FED COM 8H

Enclosed are the results of analyses for samples received by the laboratory on 03/30/23 12:25.

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 1 (1') (H231471-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/30/2023	ND	2.04	102	2.00	5.49	
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	6.33	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.12	106	2.00	5.64	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.44	107	6.00	5.10	
Total BTEX	<0.300	0.300	03/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	03/31/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	210	105	200	2.20	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	235	117	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 2 (1') (H231471-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/30/2023	ND	2.04	102	2.00	5.49		
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	6.33		
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.12	106	2.00	5.64		
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.44	107	6.00	5.10		
Total BTEx	<0.300	0.300	03/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/31/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	210	105	200	2.20	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	235	117	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 3 (1') (H231471-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/30/2023	ND	2.04	102	2.00	5.49		
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	6.33		
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.12	106	2.00	5.64		
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.44	107	6.00	5.10		
Total BTEx	<0.300	0.300	03/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	03/31/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	210	105	200	2.20	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	235	117	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 4 (1') (H231471-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/30/2023	ND	2.04	102	2.00	5.49		
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	6.33		
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.12	106	2.00	5.64		
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.44	107	6.00	5.10		
Total BTEx	<0.300	0.300	03/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/31/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	210	105	200	2.20	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	235	117	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 5 (1') (H231471-05)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/30/2023	ND	2.04	102	2.00	5.49	
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	6.33	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.12	106	2.00	5.64	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.44	107	6.00	5.10	
Total BTX	<0.300	0.300	03/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/31/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	191	95.3	200	6.21	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	223	112	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 6 (1') (H231471-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/30/2023	ND	2.04	102	2.00	5.49	
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	6.33	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.12	106	2.00	5.64	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.44	107	6.00	5.10	
Total BTEx	<0.300	0.300	03/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/31/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	191	95.3	200	6.21	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	223	112	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 7 (1') (H231471-07)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/30/2023	ND	2.04	102	2.00	5.49	
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	6.33	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.12	106	2.00	5.64	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.44	107	6.00	5.10	
Total BTX	<0.300	0.300	03/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	03/31/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	191	95.3	200	6.21	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	223	112	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 8 (1') (H231471-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/30/2023	ND	2.04	102	2.00	5.49	
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	6.33	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.12	106	2.00	5.64	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.44	107	6.00	5.10	
Total BTEx	<0.300	0.300	03/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	03/31/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	191	95.3	200	6.21	
DRO >C10-C28*	18.1	10.0	03/30/2023	ND	223	112	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 9 (1') (H231471-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/30/2023	ND	2.04	102	2.00	5.49		
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	6.33		
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.12	106	2.00	5.64		
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.44	107	6.00	5.10		
Total BTEX	<0.300	0.300	03/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/31/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	191	95.3	200	6.21	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	223	112	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 10 (1') (H231471-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/30/2023	ND	2.04	102	2.00	5.49		
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	6.33		
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.12	106	2.00	5.64		
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.44	107	6.00	5.10		
Total BTEx	<0.300	0.300	03/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	03/31/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	191	95.3	200	6.21	
DRO >C10-C28*	16.3	10.0	03/30/2023	ND	223	112	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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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
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 11 (1') (H231471-11)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/30/2023	ND	2.04	102	2.00	5.49	
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	6.33	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.12	106	2.00	5.64	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.44	107	6.00	5.10	
Total BTEx	<0.300	0.300	03/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1560	16.0	03/31/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	191	95.3	200	6.21	
DRO >C10-C28*	17.8	10.0	03/30/2023	ND	223	112	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 12 (1') (H231471-12)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/30/2023	ND	1.90	95.0	2.00	1.33		
Toluene*	<0.050	0.050	03/30/2023	ND	1.96	98.1	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	1.98	99.1	2.00	3.71		
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.05	101	6.00	4.38		
Total BTEx	<0.300	0.300	03/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1700	16.0	03/31/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	191	95.3	200	6.21	
DRO >C10-C28*	84.1	10.0	03/30/2023	ND	223	112	200	7.31	
EXT DRO >C28-C36	11.7	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 13 (1') (H231471-13)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/30/2023	ND	1.90	95.0	2.00	1.33		
Toluene*	<0.050	0.050	03/30/2023	ND	1.96	98.1	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	1.98	99.1	2.00	3.71		
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.05	101	6.00	4.38		
Total BTEx	<0.300	0.300	03/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1200	16.0	03/31/2023	ND	432	108	400	3.64	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	191	95.3	200	6.21	
DRO >C10-C28*	13.2	10.0	03/30/2023	ND	223	112	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 14 (1') (H231471-14)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/30/2023	ND	1.90	95.0	2.00	1.33		
Toluene*	<0.050	0.050	03/30/2023	ND	1.96	98.1	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	1.98	99.1	2.00	3.71		
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.05	101	6.00	4.38		
Total BTEX	<0.300	0.300	03/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	03/31/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	191	95.3	200	6.21	
DRO >C10-C28*	16.7	10.0	03/30/2023	ND	223	112	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 15 (1') (H231471-15)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/30/2023	ND	1.90	95.0	2.00	1.33		
Toluene*	<0.050	0.050	03/30/2023	ND	1.96	98.1	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	1.98	99.1	2.00	3.71		
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.05	101	6.00	4.38		
Total BTEX	<0.300	0.300	03/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1310	16.0	03/31/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	191	95.3	200	6.21	
DRO >C10-C28*	22.1	10.0	03/30/2023	ND	223	112	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 16 (1') (H231471-16)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/30/2023	ND	1.90	95.0	2.00	1.33	
Toluene*	<0.050	0.050	03/30/2023	ND	1.96	98.1	2.00	3.47	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	1.98	99.1	2.00	3.71	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.05	101	6.00	4.38	
Total BTEx	<0.300	0.300	03/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	03/31/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	191	95.3	200	6.21	
DRO >C10-C28*	51.8	10.0	03/30/2023	ND	223	112	200	7.31	
EXT DRO >C28-C36	10.1	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 17 (2') (H231471-17)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/30/2023	ND	1.90	95.0	2.00	1.33	
Toluene*	<0.050	0.050	03/30/2023	ND	1.96	98.1	2.00	3.47	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	1.98	99.1	2.00	3.71	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.05	101	6.00	4.38	
Total BTEx	<0.300	0.300	03/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2840	16.0	03/31/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	191	95.3	200	6.21	
DRO >C10-C28*	705	10.0	03/30/2023	ND	223	112	200	7.31	
EXT DRO >C28-C36	201	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 18 (2') (H231471-18)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/30/2023	ND	1.90	95.0	2.00	1.33		
Toluene*	<0.050	0.050	03/30/2023	ND	1.96	98.1	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	1.98	99.1	2.00	3.71		
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.05	101	6.00	4.38		
Total BTEx	<0.300	0.300	03/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	03/31/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	191	95.3	200	6.21	
DRO >C10-C28*	675	10.0	03/30/2023	ND	223	112	200	7.31	
EXT DRO >C28-C36	159	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 19 (2') (H231471-19)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/30/2023	ND	1.90	95.0	2.00	1.33		
Toluene*	<0.050	0.050	03/30/2023	ND	1.96	98.1	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	1.98	99.1	2.00	3.71		
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.05	101	6.00	4.38		
Total BTEx	<0.300	0.300	03/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2160	16.0	03/31/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	191	95.3	200	6.21	
DRO >C10-C28*	1000	10.0	03/30/2023	ND	223	112	200	7.31	
EXT DRO >C28-C36	230	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

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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
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 20 (2') (H231471-20)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/30/2023	ND	1.90	95.0	2.00	1.33	
Toluene*	<0.050	0.050	03/30/2023	ND	1.96	98.1	2.00	3.47	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	1.98	99.1	2.00	3.71	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.05	101	6.00	4.38	
Total BTEx	<0.300	0.300	03/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2280	16.0	03/31/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	191	95.3	200	6.21	
DRO >C10-C28*	445	10.0	03/31/2023	ND	223	112	200	7.31	
EXT DRO >C28-C36	123	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 21 (2') (H231471-21)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/30/2023	ND	1.90	95.0	2.00	1.33		
Toluene*	<0.050	0.050	03/30/2023	ND	1.96	98.1	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	1.98	99.1	2.00	3.71		
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.05	101	6.00	4.38		
Total BTEx	<0.300	0.300	03/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/31/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	191	95.3	200	6.21	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	223	112	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 22 (2') (H231471-22)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/30/2023	ND	1.90	95.0	2.00	1.33		
Toluene*	<0.050	0.050	03/30/2023	ND	1.96	98.1	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	1.98	99.1	2.00	3.71		
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.05	101	6.00	4.38		
Total BTEx	<0.300	0.300	03/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	03/31/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	191	95.3	200	6.21	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	223	112	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 23 (2') (H231471-23)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/30/2023	ND	1.90	95.0	2.00	1.33		
Toluene*	<0.050	0.050	03/30/2023	ND	1.96	98.1	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	1.98	99.1	2.00	3.71		
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.05	101	6.00	4.38		
Total BTEx	<0.300	0.300	03/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	03/31/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	191	95.3	200	6.21	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	223	112	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 24 (2') (H231471-24)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/30/2023	ND	1.90	95.0	2.00	1.33		
Toluene*	<0.050	0.050	03/30/2023	ND	1.96	98.1	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	1.98	99.1	2.00	3.71		
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.05	101	6.00	4.38		
Total BTEx	<0.300	0.300	03/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	03/31/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	191	95.3	200	6.21	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	223	112	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 25 (2') (H231471-25)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/30/2023	ND	1.90	95.0	2.00	1.33		
Toluene*	<0.050	0.050	03/30/2023	ND	1.96	98.1	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	1.98	99.1	2.00	3.71		
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.05	101	6.00	4.38		
Total BTEx	<0.300	0.300	03/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	03/31/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	235	118	200	1.15	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	254	127	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 26 (1') (H231471-26)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/30/2023	ND	1.90	95.0	2.00	1.33		
Toluene*	<0.050	0.050	03/30/2023	ND	1.96	98.1	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	1.98	99.1	2.00	3.71		
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.05	101	6.00	4.38		
Total BTEx	<0.300	0.300	03/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	03/31/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	235	118	200	1.15	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	254	127	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 27 (1') (H231471-27)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/30/2023	ND	1.90	95.0	2.00	1.33		
Toluene*	<0.050	0.050	03/30/2023	ND	1.96	98.1	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	1.98	99.1	2.00	3.71		
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.05	101	6.00	4.38		
Total BTEx	<0.300	0.300	03/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1410	16.0	03/31/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	235	118	200	1.15	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	254	127	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.5 % 49.1-148

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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
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 28 (1') (H231471-28)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/30/2023	ND	1.90	95.0	2.00	1.33		
Toluene*	<0.050	0.050	03/30/2023	ND	1.96	98.1	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	1.98	99.1	2.00	3.71		
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.05	101	6.00	4.38		
Total BTEx	<0.300	0.300	03/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2320	16.0	03/31/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	235	118	200	1.15	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	254	127	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 29 (1') (H231471-29)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2023	ND	1.90	95.0	2.00	1.33		
Toluene*	<0.050	0.050	03/31/2023	ND	1.96	98.1	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	1.98	99.1	2.00	3.71		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.05	101	6.00	4.38		
Total BTX	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	992	16.0	03/31/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	171	85.5	200	3.94	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	169	84.3	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 30 (1') (H231471-30)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2023	ND	1.90	95.0	2.00	1.33		
Toluene*	<0.050	0.050	03/31/2023	ND	1.96	98.1	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	1.98	99.1	2.00	3.71		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.05	101	6.00	4.38		
Total BTX	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1860	16.0	03/31/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	235	118	200	1.15	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	254	127	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 31 (1') (H231471-31)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2023	ND	1.90	95.0	2.00	1.33		
Toluene*	<0.050	0.050	03/31/2023	ND	1.96	98.1	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	1.98	99.1	2.00	3.71		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.05	101	6.00	4.38		
Total BTX	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	03/31/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	235	118	200	1.15	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	254	127	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 59.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.5 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 32 (1') (H231471-32)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2023	ND	2.03	101	2.00	4.27		
Toluene*	<0.050	0.050	03/31/2023	ND	2.05	103	2.00	4.73		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.11	105	2.00	4.76		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.50	108	6.00	4.51		
Total BTEx	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1340	16.0	03/31/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	171	85.5	200	3.94	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	169	84.3	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 33 (1') (H231471-33)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2023	ND	2.03	101	2.00	4.27		
Toluene*	<0.050	0.050	03/31/2023	ND	2.05	103	2.00	4.73		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.11	105	2.00	4.76		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.50	108	6.00	4.51		
Total BTEx	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1310	16.0	04/03/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	171	85.5	200	3.94	
DRO >C10-C28*	16.0	10.0	03/31/2023	ND	169	84.3	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 34 (1') (H231471-34)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2023	ND	2.03	101	2.00	4.27		
Toluene*	<0.050	0.050	03/31/2023	ND	2.05	103	2.00	4.73		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.11	105	2.00	4.76		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.50	108	6.00	4.51		
Total BTEx	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1120	16.0	04/03/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	171	85.5	200	3.94	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	169	84.3	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 35 (1') (H231471-35)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2023	ND	2.03	101	2.00	4.27		
Toluene*	<0.050	0.050	03/31/2023	ND	2.05	103	2.00	4.73		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.11	105	2.00	4.76		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.50	108	6.00	4.51		
Total BTEx	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1300	16.0	04/03/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	171	85.5	200	3.94	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	169	84.3	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 36 (1') (H231471-36)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2023	ND	2.03	101	2.00	4.27	
Toluene*	<0.050	0.050	03/31/2023	ND	2.05	103	2.00	4.73	
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.11	105	2.00	4.76	
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.50	108	6.00	4.51	
Total BTEx	<0.300	0.300	03/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	04/03/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	235	118	200	1.15	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	254	127	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 66.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.6 % 49.1-148

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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
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 37 (1') (H231471-37)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2023	ND	2.03	101	2.00	4.27	
Toluene*	<0.050	0.050	03/31/2023	ND	2.05	103	2.00	4.73	
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.11	105	2.00	4.76	
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.50	108	6.00	4.51	
Total BTEx	<0.300	0.300	03/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	04/03/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	235	118	200	1.15	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	254	127	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 66.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.6 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 38 (1') (H231471-38)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2023	ND	2.03	101	2.00	4.27		
Toluene*	<0.050	0.050	03/31/2023	ND	2.05	103	2.00	4.73		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.11	105	2.00	4.76		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.50	108	6.00	4.51		
Total BTEx	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	04/03/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	235	118	200	1.15	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	254	127	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 39 (1') (H231471-39)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2023	ND	2.03	101	2.00	4.27		
Toluene*	<0.050	0.050	03/31/2023	ND	2.05	103	2.00	4.73		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.11	105	2.00	4.76		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.50	108	6.00	4.51		
Total BTEX	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	04/03/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	235	118	200	1.15	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	254	127	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 51.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 54.7 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 40 (1') (H231471-40)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2023	ND	2.03	101	2.00	4.27		
Toluene*	<0.050	0.050	03/31/2023	ND	2.05	103	2.00	4.73		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.11	105	2.00	4.76		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.50	108	6.00	4.51		
Total BTX	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	04/03/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	235	118	200	1.15	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	254	127	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 70.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.5 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 41 (1') (H231471-41)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2023	ND	2.03	101	2.00	4.27	
Toluene*	<0.050	0.050	03/31/2023	ND	2.05	103	2.00	4.73	
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.11	105	2.00	4.76	
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.50	108	6.00	4.51	
Total BTEX	<0.300	0.300	03/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1340	16.0	04/03/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	235	118	200	1.15	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	254	127	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 64.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.8 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 42 (1') (H231471-42)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2023	ND	2.03	101	2.00	4.27	
Toluene*	<0.050	0.050	03/31/2023	ND	2.05	103	2.00	4.73	
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.11	105	2.00	4.76	
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.50	108	6.00	4.51	
Total BTEx	<0.300	0.300	03/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1420	16.0	04/03/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	235	118	200	1.15	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	254	127	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 63.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 43 (1') (H231471-43)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2023	ND	2.03	101	2.00	4.27	
Toluene*	<0.050	0.050	03/31/2023	ND	2.05	103	2.00	4.73	
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.11	105	2.00	4.76	
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.50	108	6.00	4.51	
Total BTEx	<0.300	0.300	03/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	04/03/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	235	118	200	1.15	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	254	127	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 1 (0-1') (H231471-44)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2023	ND	2.03	101	2.00	4.27		
Toluene*	<0.050	0.050	03/31/2023	ND	2.05	103	2.00	4.73		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.11	105	2.00	4.76		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.50	108	6.00	4.51		
Total BTEx	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	04/03/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	235	118	200	1.15	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	254	127	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148

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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
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 2 (0-1') (H231471-45)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2023	ND	2.03	101	2.00	4.27	
Toluene*	<0.050	0.050	03/31/2023	ND	2.05	103	2.00	4.73	
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.11	105	2.00	4.76	
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.50	108	6.00	4.51	
Total BTX	<0.300	0.300	03/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/03/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	215	108	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	209	105	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 3 (0-1') (H231471-46)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2023	ND	2.03	101	2.00	4.27		
Toluene*	<0.050	0.050	03/31/2023	ND	2.05	103	2.00	4.73		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.11	105	2.00	4.76		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.50	108	6.00	4.51		
Total BTEx	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/03/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	215	108	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	209	105	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 4 (1-2') (H231471-47)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2023	ND	2.03	101	2.00	4.27		
Toluene*	<0.050	0.050	03/31/2023	ND	2.05	103	2.00	4.73		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.11	105	2.00	4.76		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.50	108	6.00	4.51		
Total BTEx	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/03/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	215	108	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	209	105	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 5 (0-1') (H231471-48)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2023	ND	2.03	101	2.00	4.27		
Toluene*	<0.050	0.050	03/31/2023	ND	2.05	103	2.00	4.73		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.11	105	2.00	4.76		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.50	108	6.00	4.51		
Total BTX	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	736	16.0	04/03/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	215	108	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	209	105	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 6 (0-1') (H231471-49)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2023	ND	2.03	101	2.00	4.27		
Toluene*	<0.050	0.050	03/31/2023	ND	2.05	103	2.00	4.73		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.11	105	2.00	4.76		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.50	108	6.00	4.51		
Total BTEx	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	04/03/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	215	108	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	209	105	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 7 (0-2') (H231471-50)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2023	ND	2.03	101	2.00	4.27		
Toluene*	<0.050	0.050	03/31/2023	ND	2.05	103	2.00	4.73		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.11	105	2.00	4.76		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.50	108	6.00	4.51		
Total BTEx	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	04/03/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	215	108	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	209	105	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.7 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 8 (0-2') (H231471-51)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2023	ND	2.03	101	2.00	4.27		
Toluene*	<0.050	0.050	03/31/2023	ND	2.05	103	2.00	4.73		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.11	105	2.00	4.76		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.50	108	6.00	4.51		
Total BTX	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2000	16.0	04/03/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	215	108	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	209	105	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 9 (0-2') (H231471-52)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2023	ND	1.92	96.0	2.00	4.02		
Toluene*	<0.050	0.050	03/31/2023	ND	1.94	97.2	2.00	3.41		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	1.96	98.1	2.00	4.34		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	5.91	98.6	6.00	4.47		
Total BTEx	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3000	16.0	04/03/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	215	108	200	4.42	
DRO >C10-C28*	13.1	10.0	03/31/2023	ND	209	105	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 10 (0-2') (H231471-53)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2023	ND	1.92	96.0	2.00	4.02		
Toluene*	<0.050	0.050	03/31/2023	ND	1.94	97.2	2.00	3.41		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	1.96	98.1	2.00	4.34		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	5.91	98.6	6.00	4.47		
Total BTEx	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1760	16.0	04/03/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	215	108	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	209	105	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 11 (0-2') (H231471-54)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2023	ND	1.92	96.0	2.00	4.02		
Toluene*	<0.050	0.050	03/31/2023	ND	1.94	97.2	2.00	3.41		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	1.96	98.1	2.00	4.34		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	5.91	98.6	6.00	4.47		
Total BTEx	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3880	16.0	04/03/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	215	108	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	209	105	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 12 (0-2') (H231471-55)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2023	ND	1.92	96.0	2.00	4.02		
Toluene*	<0.050	0.050	03/31/2023	ND	1.94	97.2	2.00	3.41		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	1.96	98.1	2.00	4.34		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	5.91	98.6	6.00	4.47		
Total BTEx	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/03/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	215	108	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	209	105	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 13 (0-1') (H231471-56)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2023	ND	1.92	96.0	2.00	4.02		
Toluene*	<0.050	0.050	03/31/2023	ND	1.94	97.2	2.00	3.41		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	1.96	98.1	2.00	4.34		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	5.91	98.6	6.00	4.47		
Total BTEx	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	04/03/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	215	108	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	209	105	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 14 (0-1') (H231471-57)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2023	ND	1.92	96.0	2.00	4.02		
Toluene*	<0.050	0.050	03/31/2023	ND	1.94	97.2	2.00	3.41		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	1.96	98.1	2.00	4.34		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	5.91	98.6	6.00	4.47		
Total BTEx	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/03/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	215	108	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	209	105	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.1 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 15 (0-1') (H231471-58)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2023	ND	1.92	96.0	2.00	4.02		
Toluene*	<0.050	0.050	03/31/2023	ND	1.94	97.2	2.00	3.41		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	1.96	98.1	2.00	4.34		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	5.91	98.6	6.00	4.47		
Total BTEx	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/03/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	215	108	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	209	105	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 16 (0-1') (H231471-59)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2023	ND	1.92	96.0	2.00	4.02		
Toluene*	<0.050	0.050	03/31/2023	ND	1.94	97.2	2.00	3.41		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	1.96	98.1	2.00	4.34		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	5.91	98.6	6.00	4.47		
Total BTEx	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/03/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	215	108	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	209	105	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 17 (0-1') (H231471-60)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2023	ND	1.92	96.0	2.00	4.02		
Toluene*	<0.050	0.050	03/31/2023	ND	1.94	97.2	2.00	3.41		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	1.96	98.1	2.00	4.34		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	5.91	98.6	6.00	4.47		
Total BTEx	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/03/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	215	108	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	209	105	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 18 (0-1') (H231471-61)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2023	ND	1.92	96.0	2.00	4.02		
Toluene*	<0.050	0.050	03/31/2023	ND	1.94	97.2	2.00	3.41		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	1.96	98.1	2.00	4.34		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	5.91	98.6	6.00	4.47		
Total BTEx	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	04/03/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	215	108	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	209	105	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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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
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 19 (0-1') (H231471-62)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2023	ND	1.92	96.0	2.00	4.02		
Toluene*	<0.050	0.050	03/31/2023	ND	1.94	97.2	2.00	3.41		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	1.96	98.1	2.00	4.34		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	5.91	98.6	6.00	4.47		
Total BTEx	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/03/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	215	108	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	209	105	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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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
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 03/30/2023
 Reported: 04/03/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 03/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 20 (0-1') (H231471-63)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2023	ND	1.92	96.0	2.00	4.02		
Toluene*	<0.050	0.050	03/31/2023	ND	1.94	97.2	2.00	3.41		
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	1.96	98.1	2.00	4.34		
Total Xylenes*	<0.150	0.150	03/31/2023	ND	5.91	98.6	6.00	4.47		
Total BTEx	<0.300	0.300	03/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	04/03/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	215	108	200	4.42	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	209	105	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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: 4231471

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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 I <input type="checkbox"/> 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: <input type="checkbox"/>	

Project Name:	Arcturus 18 Fed Com 8H	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST												Preservative Codes
Project Number:	236740	Due Date:	1/8/21															None: NO
Project Location:	Eddy Co. NM	Due Date:	1/8/21															DI Water: H ₂ O
Sampler's Name:	Kellian Smith	TAT starts the day received by the lab, if received by 4:30pm																Cool: Cool
PO #:	2110427																	HCL: HC
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 ₂ SO ₄ : H ₂
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	713															H ₃ PO ₄ : HP
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	-0.6°C															NaHSO ₄ : NABIS
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	-12.0°C															Na ₂ S ₂ O ₃ : NaSO ₃
Total Containers:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Corrected Temperature:	-13.4°C															Zn Acetate+NaOH: Zn
																		NaOH+Ascorbic Acid: SAPC

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST												Sample Comments				
CS-1 (1')	3/29/2023		X		Comp	1	BTEX 8021B	X	X	X														
CS-2 (1')	3/29/2023		X		Comp	1	TPH 8015M (GRO + DRO + MRO)	X	X	X														
CS-3 (1')	3/29/2023		X		Comp	1	Chloride 4500	X	X	X														
CS-4 (1')	3/29/2023		X		Comp	1		X	X	X														
CS-5 (1')	3/29/2023		X		Comp	1		X	X	X														
CS-6 (1')	3/29/2023		X		Comp	1		X	X	X														
CS-7 (1')	3/29/2023		X		Comp	1		X	X	X														
CS-8 (1')	3/29/2023		X		Comp	1		X	X	X														
CS-9 (1')	3/29/2023		X		Comp	1		X	X	X														
CS-10 (1')	3/29/2023		X		Comp	1		X	X	X														

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	3/30/23	<i>[Signature]</i>	<i>[Signature]</i>	3-30-23 12:35



Chain of Custody

Work Order No: 4231471

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

Project Name:	Arcturus 18 Fed Com 8H	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST												Preservative Codes					
Project Number:	236740	Due Date:	4/8/24														None: NO					
Project Location:	Eddy Co. NM	TAT starts the day received by the lab, if received by 4:30pm															Cool: Cool					
Sampler's Name:	Kellian Smith																HCL: HC					
PO #:	2110427																H ₂ SO ₄ : H ₂					
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													H ₃ PO ₄ : HP					
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	173	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													NaHSO ₄ : NABIS					
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	-0.62	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													Na ₂ S ₂ O ₃ : NaSO ₃					
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	-18.03	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													Zn Acetate+NaOH: Zn					
Total Containers:		Corrected Temperature:	-18.62	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													NaOH+Ascorbic Acid: SAPC					
Sample Identification				Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters												Sample Comments
CS-11 (1')	3/29/2023		X	Comp	1	X	X	X	X	BTEX 8021B												
CS-12 (1')	3/29/2023		X	Comp	1	X	X	X	X	TPH 8015M (GRO + DRO + MRO)												
CS-13 (1')	3/29/2023		X	Comp	1	X	X	X	X	Chloride 4500												
CS-14 (1')	3/29/2023		X	Comp	1	X	X	X	X													
CS-15 (1')	3/29/2023		X	Comp	1	X	X	X	X													
CS-16 (1')	3/29/2023		X	Comp	1	X	X	X	X													
CS-17 (2')	3/29/2023		X	Comp	1	X	X	X	X													
CS-18 (2')	3/29/2023		X	Comp	1	X	X	X	X													
CS-19 (2')	3/29/2023		X	Comp	1	X	X	X	X													
CS-20 (2')	3/29/2023		X	Comp	1	X	X	X	X													

Additional Comments:

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<i>[Signature]</i>	<i>[Signature]</i>		<i>[Signature]</i>	<i>[Signature]</i>	



Chain of Custody

Work Order No: H231471

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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 II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: <input type="checkbox"/>

Project Name:	Arcturus 18 Fed Com 8H	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	
Project Number:	236740	Due Date:	4/1/23		
Project Location:	Eddy Co. NM	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Kellian Smith				
PO #:	2110427				
SAMPLE RECEIPT					
Received In tact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Well 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:	-0.063		
Total Containers:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	-18.03		
		Corrected Temperature:	-12.62		

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
CS-21 (2')	3/29/2023		X		Comp	1	BTEX 8021B		None: NO	
CS-22 (2')	3/29/2023		X		Comp	1	TPH 8015M (GRO + DRO + MRO)		DI Water: H ₂ O	
CS-23 (2')	3/29/2023		X		Comp	1	Chloride 4500		Cool: Cool	MeOH: Me
CS-24 (2')	3/29/2023		X		Comp	1			HCL: HC	HNO ₃ : HN
CS-25 (2')	3/29/2023		X		Comp	1			H ₂ SO ₄ : H ₂	NaOH: Na
CS-26 (1')	3/29/2023		X		Comp	1			H ₃ PO ₄ : HP	
CS-27 (1')	3/29/2023		X		Comp	1			NaHSO ₄ : NABIS	
CS-28 (1')	3/29/2023		X		Comp	1			Na ₂ S ₂ O ₃ : NASO ₃	
CS-29 (1')	3/29/2023		X		Comp	1			Zn Acetate+NaOH: Zn	
CS-30 (1')	3/29/2023		X		Comp	1			NaOH+Ascorbic Acid: SACP	

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	2	<i>[Signature]</i>	<i>[Signature]</i>	4
		6			6



Chain of Custody

Work Order No: 4231471

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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

Page <u>4</u> of <u>7</u>	
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:	Arcturus 18 Fed Com 8H	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST												Preservative Codes						
Project Number:	236740	Due Date:	4/5/23														None: NO DI Water: H ₂ O						
Project Location:	Eddy Co, NM	TAT starts the day received by the lab, if received by 4:30pm															Cool: Cool MeOH: Me						
Sampler's Name:	Kellian Smith																HCL: HC HNO ₃ : HN						
PO #:	2110427																H ₂ SO ₄ : H ₂ NaOH: Na						
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													H ₃ PO ₄ : HP					
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	713															NaHSO ₄ : NABIS					
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	-0.6°C															Na ₂ S ₂ O ₃ : NaSO ₃					
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	-13.0°C															Zn Acetate+NaOH: Zn					
Total Containers:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Corrected Temperature:	-12.6°C															NaOH+Ascorbic Acid: SAPC					
Sample Identification				Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
CS-31 (1')				3/29/2023		X		Comp	1	X	X	X											
CS-32 (1')				3/29/2023		X		Comp	1	X	X	X											
CS-33 (1')				3/29/2023		X		Comp	1	X	X	X											
CS-34 (1')				3/29/2023		X		Comp	1	X	X	X											
CS-35 (1')				3/29/2023		X		Comp	1	X	X	X											
CS-36 (1')				3/29/2023		X		Comp	1	X	X	X											
CS-37 (1')				3/29/2023		X		Comp	1	X	X	X											
CS-38 (1')				3/29/2023		X		Comp	1	X	X	X											
CS-39 (1')				3/29/2023		X		Comp	1	X	X	X											
CS-40 (1')				3/29/2023		X		Comp	1	X	X	X											

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>		<i>[Signature]</i>	<i>[Signature]</i>	



Chain of Custody

Work Order No: 11231471

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Page 5 of 7

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@dvm.com

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

Project Name:	Arcturus 18 Fed Com 8H	Turn Around	Pres. Code	ANALYSIS REQUEST												Preservative Codes					
Project Number:	236740	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush														None: NO	DI Water: H ₂ O				
Project Location:	Eddy Co. NM	Due Date:	4:30 hr													Cool: Cool	MeOH: Me				
Sampler's Name:	Kellian Smith	TAT starts the day received by the lab, if received by 4:30pm														HCL: HC	HNO ₃ : HN				
PO #:	2110427															H ₂ SO ₄ : H ₂	NaOH: Na				
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Well Ice:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>														H ₃ PO ₄ : HP	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	713														NaHSO ₄ : NABIS				
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	-0.6°C														Na ₂ S ₂ O ₃ : NaSO ₃				
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	-12.0°C														Zn Acetate+NaOH: Zn				
Total Containers:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Corrected Temperature:	-12.6°C														NaOH+Ascorbic Acid: SAPC				

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	HOLD	Sample Comments
CS-41 (1')	3/29/2023		X		Comp	1	X	X	X			
CS-42 (1')	3/29/2023		X		Comp	1	X	X	X			
CS-43 (1')	3/29/2023		X		Comp	1	X	X	X			
SW-1 (0-1')	3/29/2023		X		Comp	1	X	X	X			
SW-2 (0-1')	3/29/2023		X		Comp	1	X	X	X			
SW-3 (0-1')	3/29/2023		X		Comp	1	X	X	X			
SW-4 (1-2')	3/29/2023		X		Comp	1	X	X	X			
SW-5 (0-1')	3/29/2023		X		Comp	1	X	X	X			
SW-6 (0-1')	3/29/2023		X		Comp	1	X	X	X			
SW-7 (0-2')	3/29/2023		X		Comp	1	X	X	X			

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	2	<i>[Signature]</i>	<i>[Signature]</i>	3/30/23 12:25
		4			
		6			

Work Order No.:





14231471

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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:		ACTURUS 16 Fed Com 8H		Turn Around		ANALYSIS REQUEST												Preservative Codes							
Project Number:		236740		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush														None: NO DI Water: H ₂ O							
Project Location		Eddy Co, NM		Due Date:														Cool: Cool MeOH: Me							
Sampler's Name:		Kellan Smith		TAT starts the day received by the lab, if received by 4:30pm														HCL: HC HNO ₃ : HN							
PO #:		2110427																H ₂ SO ₄ : H ₂ NaOH: Na							
SAMPLE RECEIPT				Temp Blank:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Wet Ice:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>															
Received Intact:				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:		113																	
Cooler Custody Seals:				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Correction Factor:		-0.6°C																	
Sample Custody Seals:				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Temperature Reading:		-18.0°C																	
Total Containers:						Corrected Temperature:		-18.16°C																	
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont		Parameters											
SW-8 (0-2)		3/29/2023				X				Comp		1		BTX 8021B											
SW-9 (0-2)		3/29/2023				X				Comp		1		TPH 8015M (GRO + DRO + MRO)											
SW-10 (0-2)		3/29/2023				X				Comp		1		Chloride 4500											
SW-11 (0-2)		3/29/2023				X				Comp		1													
SW-12 (0-2)		3/29/2023				X				Comp		1													
SW-13 (0-1)		3/29/2023				X				Comp		1													
SW-14 (0-1)		3/29/2023				X				Comp		1													
SW-15 (0-1)		3/29/2023				X				Comp		1													
SW-16 (0-1)		3/29/2023				X				Comp		1													
SW-17 (0-1)		3/29/2023				X				Comp		1													
Additional Comments:																HOLD		None: NO DI Water: H ₂ O							
																		Cool: Cool MeOH: Me							
																		HCL: HC HNO ₃ : HN							
																		H ₂ SO ₄ : H ₂ NaOH: Na							
																		H ₃ PO ₄ : HP							
																		NaHSO ₄ : NABIS							
																		Na ₂ S ₂ O ₃ : NaSO ₃							
																		Zn Acetate+NaOH: Zn							
																		NaOH+Ascorbic Acid: SAPC							
Sample Comments																									

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
					



Chain of Custody

Work Order No: A231471

Page 72 of 72

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

Project Name:	Arcturus 18 Fed Com 8H	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST												Preservative Codes						
Project Number:	236740	Due Date:	4/24/23														None: NO	DI Water: H ₂ O					
Project Location:	Eddy Co, NM	TAT starts the day received by the lab, if received by 4:30pm															Cool: Cool	MeOH: Me					
Sampler's Name:	Kellan Smith																HCL: HC	HNO ₃ : HN					
PO #:	2110427																H ₂ SO ₄ : H ₂	NaOH: Na					
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													H ₃ PO ₄ : HP					
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	113													NaHSO ₄ : NABIS							
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	-0.6													Na ₂ S ₂ O ₃ : NaSO ₃							
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	-130.8													Zn Acetate+NaOH: Zn							
Total Containers:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Corrected Temperature:	-131.6													NaOH+Ascorbic Acid: SAPC							
Sample Identification				Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters												Sample Comments	
SW-18 (0-1')				3/29/2023		X		Comp	1	X	X	X	X	X	X	X	X						
SW-19 (0-1')				3/29/2023		X		Comp	1	X	X	X	X	X	X	X	X						
SW-20 (0-1')				3/29/2023		X		Comp	1	X	X	X	X	X	X	X	X						

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>		<i>[Signature]</i>	<i>[Signature]</i>	



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

April 19, 2023

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: ARCTURUS 18 FED COM 8H

Enclosed are the results of analyses for samples received by the laboratory on 04/13/23 11:05.

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 11 (2') (H231766-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2023	ND	1.91	95.6	2.00	3.49	
Toluene*	<0.050	0.050	04/18/2023	ND	1.95	97.7	2.00	3.46	
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.00	99.8	2.00	3.75	
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.09	101	6.00	3.13	
Total BTX	<0.300	0.300	04/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	04/18/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	174	86.9	200	19.5	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	196	98.2	200	20.6	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 77.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 12 (2') (H231766-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2023	ND	1.91	95.6	2.00	3.49		
Toluene*	<0.050	0.050	04/18/2023	ND	1.95	97.7	2.00	3.46		
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.00	99.8	2.00	3.75		
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.09	101	6.00	3.13		
Total BTX	<0.300	0.300	04/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	04/18/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	174	86.9	200	19.5	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	196	98.2	200	20.6	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 77.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 13 (2') (H231766-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2023	ND	1.91	95.6	2.00	3.49		
Toluene*	<0.050	0.050	04/18/2023	ND	1.95	97.7	2.00	3.46		
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.00	99.8	2.00	3.75		
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.09	101	6.00	3.13		
Total BTEx	<0.300	0.300	04/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	04/18/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	174	86.9	200	19.5	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	196	98.2	200	20.6	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 82.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 14 (2') (H231766-04)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2023	ND	1.91	95.6	2.00	3.49		
Toluene*	<0.050	0.050	04/18/2023	ND	1.95	97.7	2.00	3.46		
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.00	99.8	2.00	3.75		
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.09	101	6.00	3.13		
Total BTX	<0.300	0.300	04/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	04/18/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	174	86.9	200	19.5	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	196	98.2	200	20.6	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 15 (2') (H231766-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2023	ND	1.91	95.6	2.00	3.49		
Toluene*	<0.050	0.050	04/18/2023	ND	1.95	97.7	2.00	3.46		
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.00	99.8	2.00	3.75		
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.09	101	6.00	3.13		
Total BTEx	<0.300	0.300	04/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	04/18/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	174	86.9	200	19.5	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	196	98.2	200	20.6	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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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
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 16 (2') (H231766-06)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2023	ND	1.91	95.6	2.00	3.49		
Toluene*	<0.050	0.050	04/18/2023	ND	1.95	97.7	2.00	3.46		
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.00	99.8	2.00	3.75		
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.09	101	6.00	3.13		
Total BTX	<0.300	0.300	04/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	04/18/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	174	86.9	200	19.5	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	196	98.2	200	20.6	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 17 (3') (H231766-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2023	ND	1.91	95.6	2.00	3.49		
Toluene*	<0.050	0.050	04/18/2023	ND	1.95	97.7	2.00	3.46		
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.00	99.8	2.00	3.75		
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.09	101	6.00	3.13		
Total BTEx	<0.300	0.300	04/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/18/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	174	86.9	200	19.5	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	196	98.2	200	20.6	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 73.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 18 (3') (H231766-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2023	ND	1.91	95.6	2.00	3.49		
Toluene*	<0.050	0.050	04/18/2023	ND	1.95	97.7	2.00	3.46		
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.00	99.8	2.00	3.75		
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.09	101	6.00	3.13		
Total BTEx	<0.300	0.300	04/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/18/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	174	86.9	200	19.5	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	196	98.2	200	20.6	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 67.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.8 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 19 (3') (H231766-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2023	ND	1.91	95.6	2.00	3.49		
Toluene*	<0.050	0.050	04/18/2023	ND	1.95	97.7	2.00	3.46		
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.00	99.8	2.00	3.75		
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.09	101	6.00	3.13		
Total BTEx	<0.300	0.300	04/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/18/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	174	86.9	200	19.5	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	196	98.2	200	20.6	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 80.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 20 (3') (H231766-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2023	ND	1.91	95.6	2.00	3.49		
Toluene*	<0.050	0.050	04/18/2023	ND	1.95	97.7	2.00	3.46		
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.00	99.8	2.00	3.75		
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.09	101	6.00	3.13		
Total BTEx	<0.300	0.300	04/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/18/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	200	99.9	200	13.6	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	200	100	200	13.2	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 26 (2') (H231766-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2023	ND	1.91	95.6	2.00	3.49		
Toluene*	<0.050	0.050	04/18/2023	ND	1.95	97.7	2.00	3.46		
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.00	99.8	2.00	3.75		
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.09	101	6.00	3.13		
Total BTEx	<0.300	0.300	04/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	04/18/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	200	99.9	200	13.6	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	200	100	200	13.2	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 27 (2') (H231766-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2023	ND	1.91	95.6	2.00	3.49		
Toluene*	<0.050	0.050	04/18/2023	ND	1.95	97.7	2.00	3.46		
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.00	99.8	2.00	3.75		
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.09	101	6.00	3.13		
Total BTEx	<0.300	0.300	04/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	04/18/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	200	99.9	200	13.6	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	200	100	200	13.2	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 28 (2') (H231766-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2023	ND	1.91	95.6	2.00	3.49		
Toluene*	<0.050	0.050	04/18/2023	ND	1.95	97.7	2.00	3.46		
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.00	99.8	2.00	3.75		
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.09	101	6.00	3.13		
Total BTEx	<0.300	0.300	04/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/18/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	200	99.9	200	13.6	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	200	100	200	13.2	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.8 % 49.1-148

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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
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 29 (2') (H231766-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2023	ND	1.91	95.6	2.00	3.49		
Toluene*	<0.050	0.050	04/18/2023	ND	1.95	97.7	2.00	3.46		
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.00	99.8	2.00	3.75		
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.09	101	6.00	3.13		
Total BTEx	<0.300	0.300	04/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	04/18/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	200	99.9	200	13.6	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	200	100	200	13.2	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 30 (2') (H231766-15)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2023	ND	1.91	95.6	2.00	3.49	
Toluene*	<0.050	0.050	04/18/2023	ND	1.95	97.7	2.00	3.46	
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.00	99.8	2.00	3.75	
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.09	101	6.00	3.13	
Total BTEx	<0.300	0.300	04/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	200	99.9	200	13.6	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	200	100	200	13.2	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 31 (2') (H231766-16)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2023	ND	1.91	95.6	2.00	3.49	
Toluene*	<0.050	0.050	04/18/2023	ND	1.95	97.7	2.00	3.46	
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.00	99.8	2.00	3.75	
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.09	101	6.00	3.13	
Total BTEx	<0.300	0.300	04/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	200	99.9	200	13.6	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	200	100	200	13.2	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 32 (2') (H231766-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2023	ND	1.91	95.6	2.00	3.49		
Toluene*	<0.050	0.050	04/18/2023	ND	1.95	97.7	2.00	3.46		
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.00	99.8	2.00	3.75		
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.09	101	6.00	3.13		
Total BTEX	<0.300	0.300	04/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/18/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	200	99.9	200	13.6	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	200	100	200	13.2	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 33 (2') (H231766-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2023	ND	1.91	95.6	2.00	3.49		
Toluene*	<0.050	0.050	04/18/2023	ND	1.95	97.7	2.00	3.46		
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.00	99.8	2.00	3.75		
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.09	101	6.00	3.13		
Total BTEx	<0.300	0.300	04/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	200	99.9	200	13.6	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	200	100	200	13.2	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 34 (2') (H231766-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2023	ND	1.91	95.6	2.00	3.49		
Toluene*	<0.050	0.050	04/18/2023	ND	1.95	97.7	2.00	3.46		
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.00	99.8	2.00	3.75		
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.09	101	6.00	3.13		
Total BTEx	<0.300	0.300	04/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/18/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	200	99.9	200	13.6	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	200	100	200	13.2	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 35 (2') (H231766-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2023	ND	1.91	95.6	2.00	3.49		
Toluene*	<0.050	0.050	04/18/2023	ND	1.95	97.7	2.00	3.46		
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.00	99.8	2.00	3.75		
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.09	101	6.00	3.13		
Total BTEx	<0.300	0.300	04/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/18/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	200	99.9	200	13.6	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	200	100	200	13.2	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 36 (2') (H231766-21)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2023	ND	1.92	95.8	2.00	4.84	QR-03
Toluene*	<0.050	0.050	04/18/2023	ND	2.02	101	2.00	5.46	
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.07	104	2.00	5.74	
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.27	105	6.00	5.02	
Total BTEX	<0.300	0.300	04/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/18/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	200	99.9	200	13.6	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	200	100	200	13.2	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 37 (2') (H231766-22)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2023	ND	1.92	95.8	2.00	4.84		
Toluene*	<0.050	0.050	04/18/2023	ND	2.02	101	2.00	5.46		
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.07	104	2.00	5.74		
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.27	105	6.00	5.02		
Total BTEx	<0.300	0.300	04/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/18/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	200	99.9	200	13.6	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	200	100	200	13.2	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 38 (2') (H231766-23)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2023	ND	1.92	95.8	2.00	4.84		
Toluene*	<0.050	0.050	04/18/2023	ND	2.02	101	2.00	5.46		
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.07	104	2.00	5.74		
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.27	105	6.00	5.02		
Total BTEx	<0.300	0.300	04/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/18/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	200	99.9	200	13.6	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	200	100	200	13.2	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 39 (2') (H231766-24)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2023	ND	1.92	95.8	2.00	4.84		
Toluene*	<0.050	0.050	04/18/2023	ND	2.02	101	2.00	5.46		
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.07	104	2.00	5.74		
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.27	105	6.00	5.02		
Total BTEx	<0.300	0.300	04/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/18/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	200	99.9	200	13.6	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	200	100	200	13.2	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 40 (2') (H231766-25)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2023	ND	1.92	95.8	2.00	4.84		
Toluene*	<0.050	0.050	04/18/2023	ND	2.02	101	2.00	5.46		
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.07	104	2.00	5.74		
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.27	105	6.00	5.02		
Total BTX	<0.300	0.300	04/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/18/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	200	99.9	200	13.6	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	200	100	200	13.2	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 41 (2') (H231766-26)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2023	ND	1.92	95.8	2.00	4.84		
Toluene*	<0.050	0.050	04/18/2023	ND	2.02	101	2.00	5.46		
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.07	104	2.00	5.74		
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.27	105	6.00	5.02		
Total BTX	<0.300	0.300	04/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/18/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	200	99.9	200	13.6	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	200	100	200	13.2	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 42 (2') (H231766-27)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2023	ND	1.92	95.8	2.00	4.84		
Toluene*	<0.050	0.050	04/18/2023	ND	2.02	101	2.00	5.46		
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.07	104	2.00	5.74		
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.27	105	6.00	5.02		
Total BTEx	<0.300	0.300	04/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/18/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	200	99.9	200	13.6	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	200	100	200	13.2	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 43 (2') (H231766-28)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2023	ND	1.92	95.8	2.00	4.84		
Toluene*	<0.050	0.050	04/18/2023	ND	2.02	101	2.00	5.46		
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.07	104	2.00	5.74		
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.27	105	6.00	5.02		
Total BTEx	<0.300	0.300	04/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/18/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	200	99.9	200	13.6	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	200	100	200	13.2	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 5A (0-2') (H231766-29)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2023	ND	1.92	95.8	2.00	4.84		
Toluene*	<0.050	0.050	04/18/2023	ND	2.02	101	2.00	5.46		
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.07	104	2.00	5.74		
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.27	105	6.00	5.02		
Total BTX	<0.300	0.300	04/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	04/18/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	200	99.9	200	13.6	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	200	100	200	13.2	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 8A (0-2') (H231766-30)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2023	ND	1.92	95.8	2.00	4.84	
Toluene*	<0.050	0.050	04/18/2023	ND	2.02	101	2.00	5.46	
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.07	104	2.00	5.74	
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.27	105	6.00	5.02	
Total BTEx	<0.300	0.300	04/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/18/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	194	96.8	200	8.37	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	181	90.5	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 75.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.4 % 49.1-148

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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
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 9A (0-2') (H231766-31)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2023	ND	1.92	95.8	2.00	4.84		
Toluene*	<0.050	0.050	04/18/2023	ND	2.02	101	2.00	5.46		
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.07	104	2.00	5.74		
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.27	105	6.00	5.02		
Total BTX	<0.300	0.300	04/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	04/18/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	194	96.8	200	8.37	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	181	90.5	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.6 % 49.1-148

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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
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 21 (1-2') (H231766-32)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2023	ND	1.92	95.8	2.00	4.84	
Toluene*	<0.050	0.050	04/18/2023	ND	2.02	101	2.00	5.46	
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.07	104	2.00	5.74	
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.27	105	6.00	5.02	
Total BTX	<0.300	0.300	04/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/18/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	194	96.8	200	8.37	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	181	90.5	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 76.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/13/2023
 Reported: 04/19/2023
 Project Name: ARCTURUS 18 FED COM 8H
 Project Number: 236740
 Project Location: DEVON - EDDY COUNTY, NM

Sampling Date: 04/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 22 (2-3') (H231766-33)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2023	ND	1.92	95.8	2.00	4.84		
Toluene*	<0.050	0.050	04/18/2023	ND	2.02	101	2.00	5.46		
Ethylbenzene*	<0.050	0.050	04/18/2023	ND	2.07	104	2.00	5.74		
Total Xylenes*	<0.150	0.150	04/18/2023	ND	6.27	105	6.00	5.02		
Total BTX	<0.300	0.300	04/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/18/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2023	ND	194	96.8	200	8.37	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	181	90.5	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					

Surrogate: 1-Chlorooctane 70.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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: A231766

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:	Wesley.Matthews@dyn.com

Project Name:	Arcturus 18 Fed Com 8H	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush
Project Number:	236740	Due Date:	4/17/23
Project Location:	Eddy Co, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Kellian Smith		
PO #:	2110427		

SAMPLE RECEIPT	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Received In tact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	113	
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	-0.6	
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	-0.6	
Total Containers:		Corrected Temperature:	-1.2	

Project Number:		226740		<input checked="" type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush		Turn Around		ANALYSIS REQUEST										Preservative Codes									
Project Location:		Eddy Co, NM		Due Date:		3/24/23		Pres. Code		4/12/2023												None: NO DI Water: H ₂ O					
Sampler's Name:		Kellian Smith		TAT starts the day received by the lab, if received by 4:30pm																		Cool: Cool MeOH: Me					
PO #:		2110427																				HCL: HC HNO ₃ : HN					
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 ₂ SO ₄ : H ₂					
Received Intact:				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID:				11/3												H ₃ PO ₄ : HP					
Cooler Custody Seals:				Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Correction Factor:				-0.6												NaHSO ₄ : NABIS					
Sample Custody Seals:				Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Temperature Reading:				-0.6												Na ₂ S ₂ O ₅ : NaSO ₃					
Total Containers:						Corrected Temperature:				-1.2												Zn Acetate+NaOH: Zn					
																						NaOH+Ascorbic Acid: SAPC					
Sample Identification				Date		Time		Soil		Water		Grab/Comp		# of Cont												Sample Comments	
CS-11 (2)				4/12/2023				X				Comp		1		X											
CS-12 (2)				4/12/2023				X				Comp		1		X											
CS-13 (2)				4/12/2023				X				Comp		1		X											
CS-14 (2)				4/12/2023				X				Comp		1		X											
CS-15 (2)				4/12/2023				X				Comp		1		X											
CS-16 (2)				4/12/2023				X				Comp		1		X											
CS-17 (3)				4/12/2023				X				Comp		1		X											
CS-18 (3)				4/12/2023				X				Comp		1		X											
CS-19 (3)				4/12/2023				X				Comp		1		X											
CS-20 (3)				4/12/2023				X				Comp		1		X											
Additional Comments:																											

Additional Comments:

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<u>[Signature]</u>	<u>[Signature]</u>	4-13-23 1105			



Chain of Custody

Work Order No: H231766

Page 2 of 4

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:	Wesley.Matthews@dyn.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> RP <input type="checkbox"/> Townfields <input type="checkbox"/> RC <input type="checkbox"/> Selffund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: <input type="checkbox"/>	

Project Name:	Arcturus 18 Fed Com 8H	Turn Around	<input checked="" type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Prep. Code	41723
Project Number:	236740	Due Date:	8/20/23	TAT starts the day received by the lab, if received by 4:30pm	
Project Location:	Eddy Co. NM				
Sampler's Name:	Kellian Smith				
PO #:	2110427				
SAMPLE RECEIPT					
Received In tact:	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	113		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	-0.6°C		
Total Containers:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Corrected Temperature:	-1.2°C		
ANALYSIS REQUEST					
Sample Identification	Date	Time	Soil	Water	Grab/Comp
CS-26 (2')	4/12/2023		X		Comp 1
CS-27 (2')	4/12/2023		X		Comp 1
CS-28 (2')	4/12/2023		X		Comp 1
CS-29 (2')	4/12/2023		X		Comp 1
CS-30 (2')	4/12/2023		X		Comp 1
CS-31 (2')	4/12/2023		X		Comp 1
CS-32 (2')	4/12/2023		X		Comp 1
CS-33 (2')	4/12/2023		X		Comp 1
CS-34 (2')	4/12/2023		X		Comp 1
CS-35 (2')	4/12/2023		X		Comp 1
Parameters					
BTX 8021B					
TPH 8015M (GRO + DRO + MRO)					
Chloride 4500					
Preservative Codes					
None: NO <input type="checkbox"/> DI Water: H ₂ O <input type="checkbox"/>					
Cool: Cool <input type="checkbox"/> MeOH: Me <input type="checkbox"/>					
HCL: HC <input type="checkbox"/> HNO ₃ : HN <input type="checkbox"/>					
H ₂ SO ₄ : H ₂ <input type="checkbox"/> NaOH: Na <input type="checkbox"/>					
H ₃ PO ₄ : HP <input type="checkbox"/>					
NaHSO ₄ : NABIS <input type="checkbox"/>					
Na ₂ S ₂ O ₃ : NaSO ₃ <input type="checkbox"/>					
Zn Acetate+NaOH: Zn <input type="checkbox"/>					
NaOH+Ascorbic Acid: SAPC <input type="checkbox"/>					
Sample Comments					

Additional Comments:

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<u>[Signature]</u>	<u>[Signature]</u>	4-13-23 1105			



Chain of Custody

Work Order No.:

4231766

Page 3 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:	Catsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	Wesley.Mathews@dyn.com
Project Name:	Archives 18 End Com 9U		

Work Order Comments	
Program: UST/PST <input type="checkbox"/> RP <input type="checkbox"/> Downfields <input type="checkbox"/> RC <input type="checkbox"/> S <input type="checkbox"/> Endund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Number:		236740		<input checked="" type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush		Turn Around		48-49 hrs	
Project Location:		Eddy Co., NM		Due Date:		8/28/23			
Sampler's Name:		Kellan Smith		TAT starts the day received by the lab, if received by 4:30pm					
PO #:		2110427							
SAMPLE RECEIPT				Temp Blank:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Wet Ice:	
Received Intact:				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:		713	
Cooler Custody Seals:				Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Correction Factor:		-0.6%	
Sample Custody Seals:				Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Temperature Reading:		-0.6%	
Total Containers:						Corrected Temperature:		-1.2%	
Parameters						Pres. Code			
BTEx 8021B									
8015M (GRO + DRO + MRO)									
Chloride 4500									
HOLD									
None: NO						DI Water: H ₂ O			
Cool: Cool						MeOH: Me			
HCL: HC						HNO ₃ : HN			
H ₂ SO ₄ : H ₂						NaOH: Na			
H ₃ PO ₄ : HP									
NaHSO ₄ : NABIS									
Na ₂ S ₂ O ₃ : NaSO ₃									
Zn Acetate+NaOH: Zn									
NaOH+Acetic Acid: CAPC									

[illegible]

Additional Comments:

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1	<i>[Signature]</i>	4-13-23 1105	2		
3			4		
5			6		



Chain of Custody

Work Order No.:

H231764

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:	Wesley.Matthews@dyn.com
Project Name:	Artisuns 18 End Coon Rd		



Page 4 of 4

Project Number:	236740	<input checked="" type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush
Project Location:	Eddy Co. NM	Due Date:	2 Day
Sampler's Name:	Kellan Smith	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	2110427		
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	-0.6°C
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	-0.6°C
Total Containers:		Corrected Temperature:	-1.2°C

[illegible][illegible]

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		4-13-23 1105			

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 218144

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 218144
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	Devon's deferral requests to complete final remediation during any future major construction/alteration or final plugging/abandonment, whichever occurs first. NTG Environmental and Devon do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The area requested for deferral is the impacted soil in and around facility infrastructure (wellhead and pumpjack) shown on Figure 5 of the report, which includes sample areas (SW-10 and SW-11). The areas have been delineated and documented in the report. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	10/12/2023