Oil Conservation Division

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

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223006	53555	

Incident IDNAPP2300653555District RPFacility IDApplication ID

Remediation 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 Env. Professional Title: Signature. Dale Woodall 5/18/2023 Date: dale.woodall@dvn.com Telephone: 575-748-1838 email: **OCD Only** 10/12/2023 Received by: Robert Hamlet Date: Approved Approved with Attached Conditions of Approval Denied X Deferral Approved Robert Hamlet Date: 10/12/2023 Signature:

Page 5

Oil Conservation Division

	Page 2 of 23
Incident ID	NAPP2300653555
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>Unkn</u> own (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 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)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 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?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔀 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
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-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.

Received by OCD: 5/18/	2023 10:53:11 AM State of New Mexi	<u>co</u>		Page 3 of 23
			Incident ID	NAPP2300653555
Page 4	Oil Conservation Div	1S10n	District RP	
			Facility ID	
			Application ID	
regulations all operators a public health or the envir failed to adequately invest	Voodall	ease notifications and perform c by the OCD does not relieve the se a threat to groundwater, surfa erator of responsibility for comp Title: <u>Env. Profess</u> Date: <u>5/18/2023</u>	orrective actions for rele e operator of liability sh ace water, human health liance with any other fe	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only Received by: Joc	elyn Harimon	Date:05/1	9/2023	

Oil Conservation Division

Incident IDNAPP2300653555District RPFacility IDApplication 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 \boxtimes Estimated volume of material to be remediated \boxtimes 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 Env. Professional Title: Signature. Dale Woodall 5/18/2023 Date: dale.woodall@dvn.com Telephone: 575-748-1838 email: **OCD Only** 05/19/2023 Jocelyn Harimon Received by: Date: Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Date:

Page 6

Oil Conservation Division

Incident ID	NAPP2300653555
District RP	
Facility ID	
Application ID	

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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 Deport Attachment Checkbert, Each of the following	itams must be included in the closure concret	
<u>Closure Report Attachment Checklist</u>: Each of the following to	uems musi de 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 OD	C District office must be notified 2 days prior to final sampling)	
Description of remediation activities		
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in	
Dale Woodall Printed Name:	Title: Env. Professional	
Signature: Dale Woodall	Date: <u>5/18/2023</u>	
email:dale.woodall@dvn.com	Telephone:	
OCD Only		
Received by:	Date:	
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.	
Closure Approved by:	Date:	
Printed Name:		

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.

Creating a Better Environment For Oil & Gas Operations Mr. Mike Bratcher May 17, 2023 Page 2 of 5

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 ¹/₂-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	$\frac{\text{TPH}}{(\text{GRO}+\text{MRO})}$	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. <u>Remedial Action Activities and Confirmation/Deferral Sampling</u>

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.

NTGE Project No.: 236740



Mr. Mike Bratcher May 17, 2023 Page 3 of 5

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 CS43) 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

alla

Ethan Sessums Project Manager

Attachments:

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



.

Kellan Smith

From:	Ethan Sessums
Sent:	Saturday, March 25, 2023 1:30 PM
То:	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: <u>esessums@ntglobal.com</u> <u>http://www.ntgenvironmental.com/</u>



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: <u>esessums@ntglobal.com</u> <u>http://www.ntgenvironmental.com/</u>



Kellan Smith

From:	Ethan Sessums
Sent:	Monday, April 10, 2023 6:52 AM
То:	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 M: (254)-266-5456 W: (432)-701-2159 Email: esessums@ntglobal.com

> Air Quality Compliance | EHS Management | Environmental Due Diligence & Audits | Midstream Compliance | Regulatory Compliance & Permitting | <u>Site Assessment</u>, <u>Remediation & Site Closure</u> | 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

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Revised August 24, 2018 Submit to appropriate OCD District office

)

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude	

(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)

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

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Oil Conservation Division

Incident ID	
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Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate n	otice 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

The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name:	Title:
Signature: Dale Woodall	Date:
email:	Telephone:
OCD Only Jocelyn Harimon Received by:	01/12/2023 Date:

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- \square Depth to water determination
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				Incident ID	NAPP2300653555
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				Facility ID	
				Application ID	
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and/or regulations. Printed Name: <u>Dale Wo</u> Signature: <u>Dale Wo</u> email: <u>dale.woodall@dvr</u>	oodall oodall n.com	Date:	5/18/2023	ional 48-1838	

Oil Conservation Division

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Incident ID	NAPP2300653555
District RP	
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Remediation 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 Env. Professional Title: Signature. Dale Woodall Date: 5/18/2023 dale.woodall@dvn.com Telephone: 575-748-1838 email: **OCD Only** Received by: Date: Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Date:

Page 5

Page 6

Oil Conservation Division

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Closure

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Description of remediation activities	
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Printed Name:	Title: Env. Professional
Signature: Dale Woodall	_ Date:5/18/2023
email:dale.woodall@dvn.com	Telephone:
OCD Only	
OCD Only	
Received by:	Date:
	y of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible l/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	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO (C6-C-10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	Chloride
		(ft bgs)	(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 Cr	iteria for Si	te (Surface to	o 4 feet below	grade) 19.15.29	NMAC	-	
			10 mg/kg				50 mg/kg			100 mg/kg		100 mg/kg	600 mg/kg
				-		al Assessme				-	-		
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'	<0.00201	<0.00201	<0.00201	<0.00402	< 0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	87.3
5 0 (2 2.5)	1/12/2023	2.5	\$0.00200	40.00200	\$0.00200	Deferral Sa		\$30.0	\$30.0	\$50.0	\$30.0	\$50.0	07.5
	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
VDS-1	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
1051	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
	3/22/2023	1'	<0.030	<0.030	<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
VDS-2	3/22/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96
VD3-2	3/22/2023 3/22/2023	3' 4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
		4' 5'											
	3/22/2023	-	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
	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
VDS-3	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
	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
VDS-4	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)

6. GRO/DRO/MRO - Gasoline/Diesel/Motor Oil 3. Bold indicates Analyte Detected

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

5. TPH analyses by EPA Method SW 8015 Mod.

4. BTEX analyses by EPA Method SW 8021B

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).

Sample Point Excavated



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

		Depth			Ethylbenzene	Xylenes							
Sample ID	Sample Date		Benzene	Toluene			BTEX	GRO (C6-C-10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	Chloride
		(ft bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
					Та	ble I Closure	Criteria for So	il 51-100 feet	Depth to Gro	undwater 19.15.2	9 NMAC	1	
			10 mg/kg				50 mg/kg					100 mg/kg	600 mg/kg
						Confirmation	n Base Samples	5					
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	19.0	17.8	17.8	<10.0	17.8	1,560
0.5-11	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	- <u>+</u> -	<0:050	<0.050	<0:050	<0:450	<0:300	<u>_19:0</u>	84.1	84.1	11.7	95.8	1,700
05-12	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	- <u>+</u> -	<0.050	<0.050	<0.050	<0:450	<0:300	<u>_19:0</u>	13.2	13.2	<10.0	13.2	1,200
05-15	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	<u> </u>	<0:050	<0:050	<0.050	<0:450	<0:300	19:0	16.7	16.7	<10.0	16.7	1,230
05-14	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	<u>+</u> -	<0:050	<0:050	<0:050	<0:450	<0:300	19.0	22.1	22.1	<10.0	22.1	1,310
05-15	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	4	<0:050	<0.050	<0:050	<0.150	<0:300	_ _18.0	51.8	51.8	10.1	61.9	1,880
65 10	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	21	<0.050	<0.050	<0.050	<0:150	<0.300		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	<0.450	<0:300	_210.0	675	675	159	834	2,400
05-18	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	< 0:05 0	<0:050	<0:150	<0:300	<u></u>	1,000	1,000	230	1,230	2,160
C3-15	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	< 0:05 0	<0:050	<0:450	<0:300	<u>_</u>	445	445	123	568	2,280
05-20	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

		Depth				Xylenes	втех						
Sample ID	Sample Date		Benzene	Toluene	Ethylbenzene			GRO (C6-C-10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	Chloride
		(ft bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
					Та	ble I Closure	Criteria for So	il 51-100 feet	Depth to Gro	undwater 19.15.2	9 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	Ť	<0:050	<0:050	<0:050	<0:150	<0:300		<10.0	<10.0	<10.0	<10.0	896
05-20	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	Ť	<0:050	<0:050	<0:050	<0:150	<0:300	<10.0	<1 0.0	<10.0	∼10.0	<10.0	1,410
05-27	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	2,320
05-28	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		<0.050	<0.050	<0.050	<0:150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	992
65 25	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	-	<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	-	<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		<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	4'	<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	4	<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		<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	4	<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	+	<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	+	<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	+	<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	+	<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	- <u>+</u>	<0:050	<0.050	<0.050	₹0:150	<0:300	₹10.0	₹10.0	<10.0	~10.0	~10.0	1,420
55 12	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	e Depth (ft bgs)		Toluene	Ethylbenzene	Xylenes	BTEX						
			Benzene					GRO (C6-C-10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	Chloride
-			(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	4'	<0.050	<0:050	<0.050	<0:150	<0:300	210.0	<10.0		<10.0	<10.0	1,020
CS-43	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

		Depth			e Ethylbenzene	Xylenes	ВТЕХ			TPH			Chloride	
Sample ID	Sample Date		Benzene	Toluene				GRO (C6-C-10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)		
		(ft bgs)	(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	
					Co	nfirmation S	ide-Wall Samp	les						
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	<u>+'</u>	<0:050	<0:050	<0:050	<0:450	<0:300	<u>}</u>	<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	<0:450	<0:300	19:0	<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	<u>_19.0</u>	~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:

1. Values reported in mg/kg

2.< = Value Less Than Reporting Limit (RL)3. Bold indicates Analyte Detected

5. TPH analyses by EPA Method SW 8015 Mod.

6. GRO/DRO/MRO - Gasoline/Diesel/Motor Oil

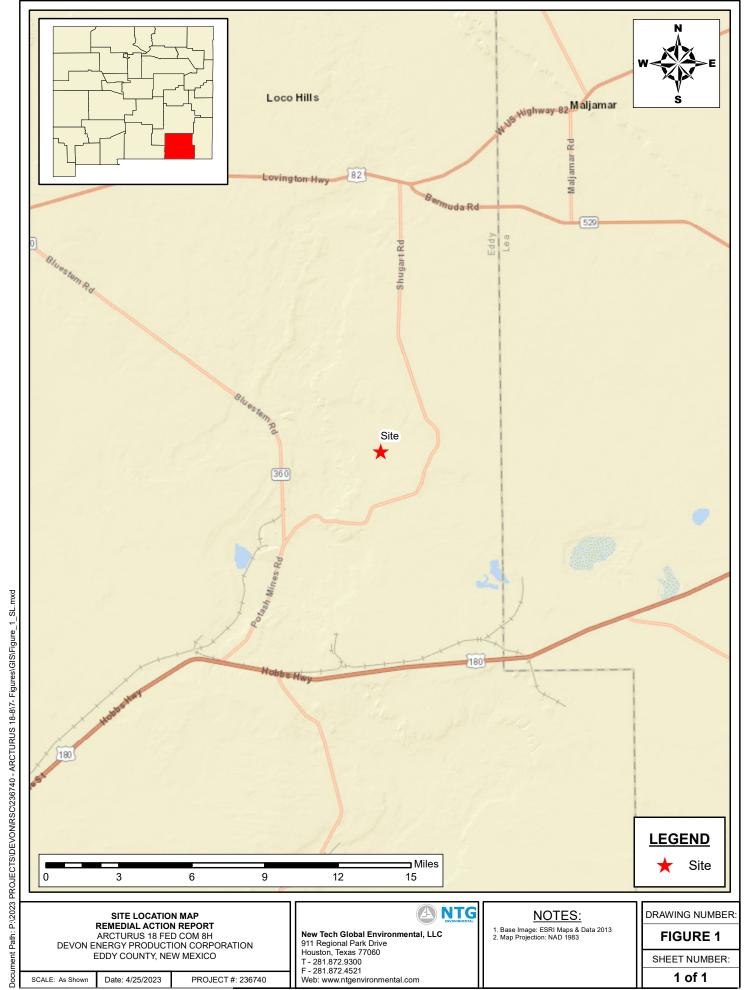
7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.

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).

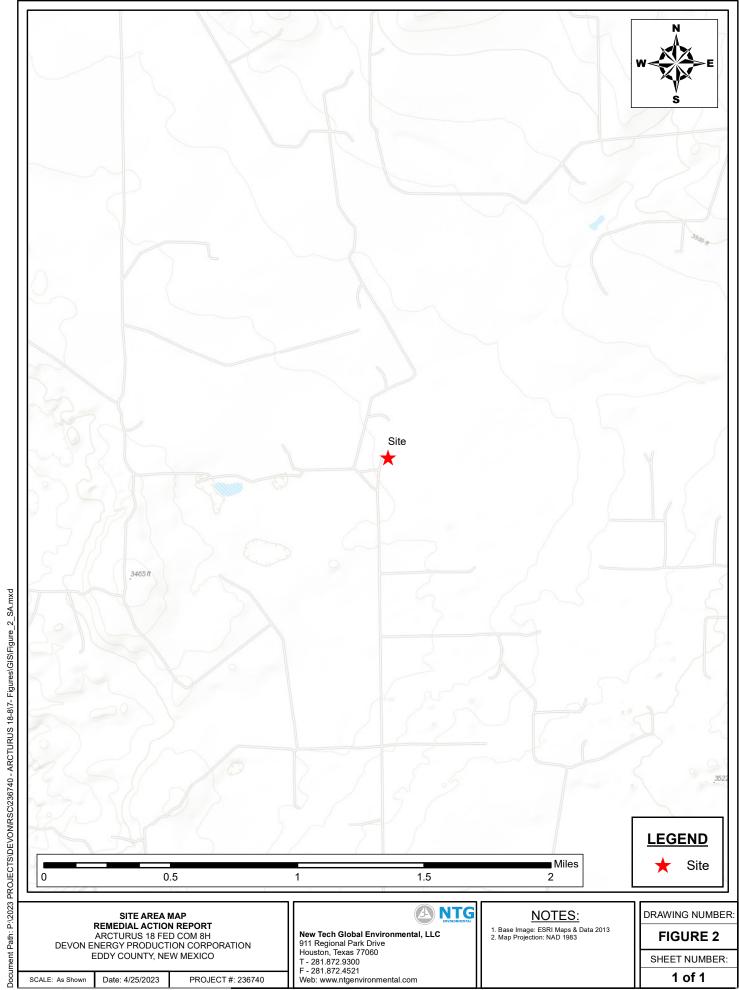
4. BTEX analyses by EPA Method SW 8021B

9. --- Not Analyzed

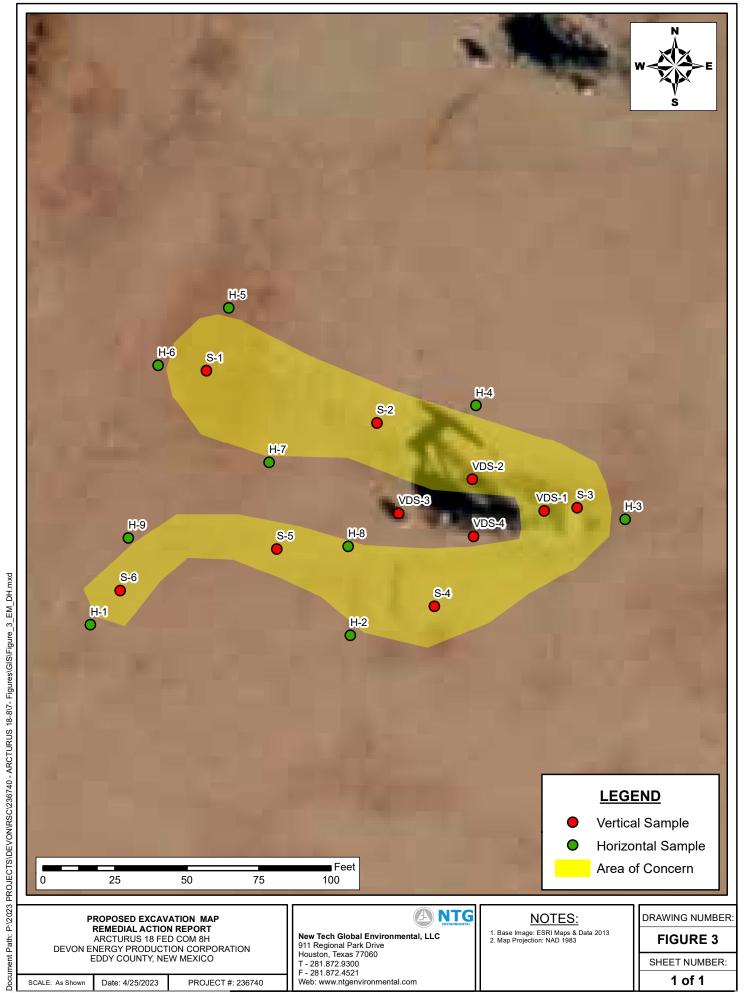
FIGURES



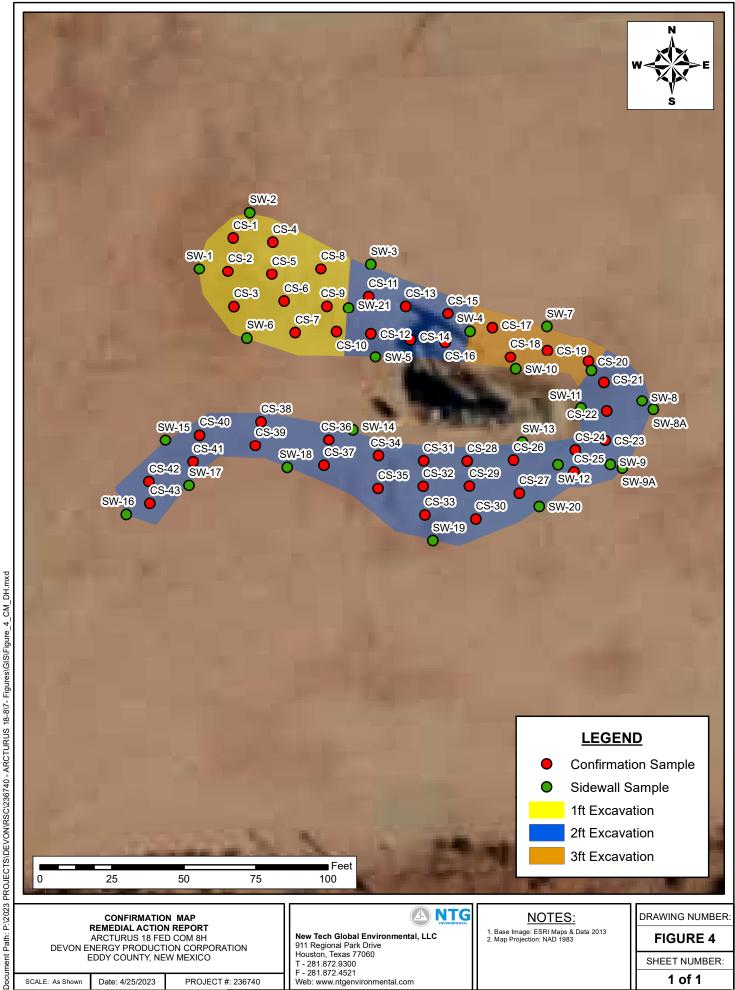
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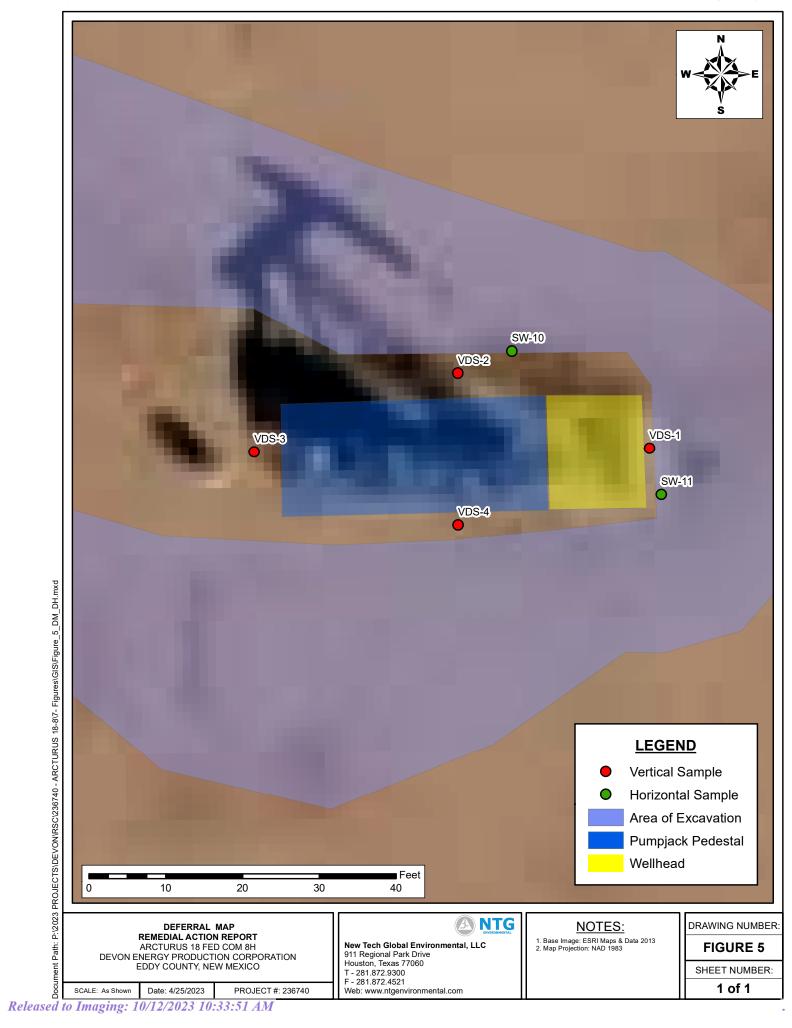
Released to Imaging: 10/12/2023 10:33:51 AM



Released to Imaging: 10/12/2023 10:33:51 AM



Released to Imaging: 10/12/2023 10:33:51 AM



SITE CHARACTERIZATION INFORMATION

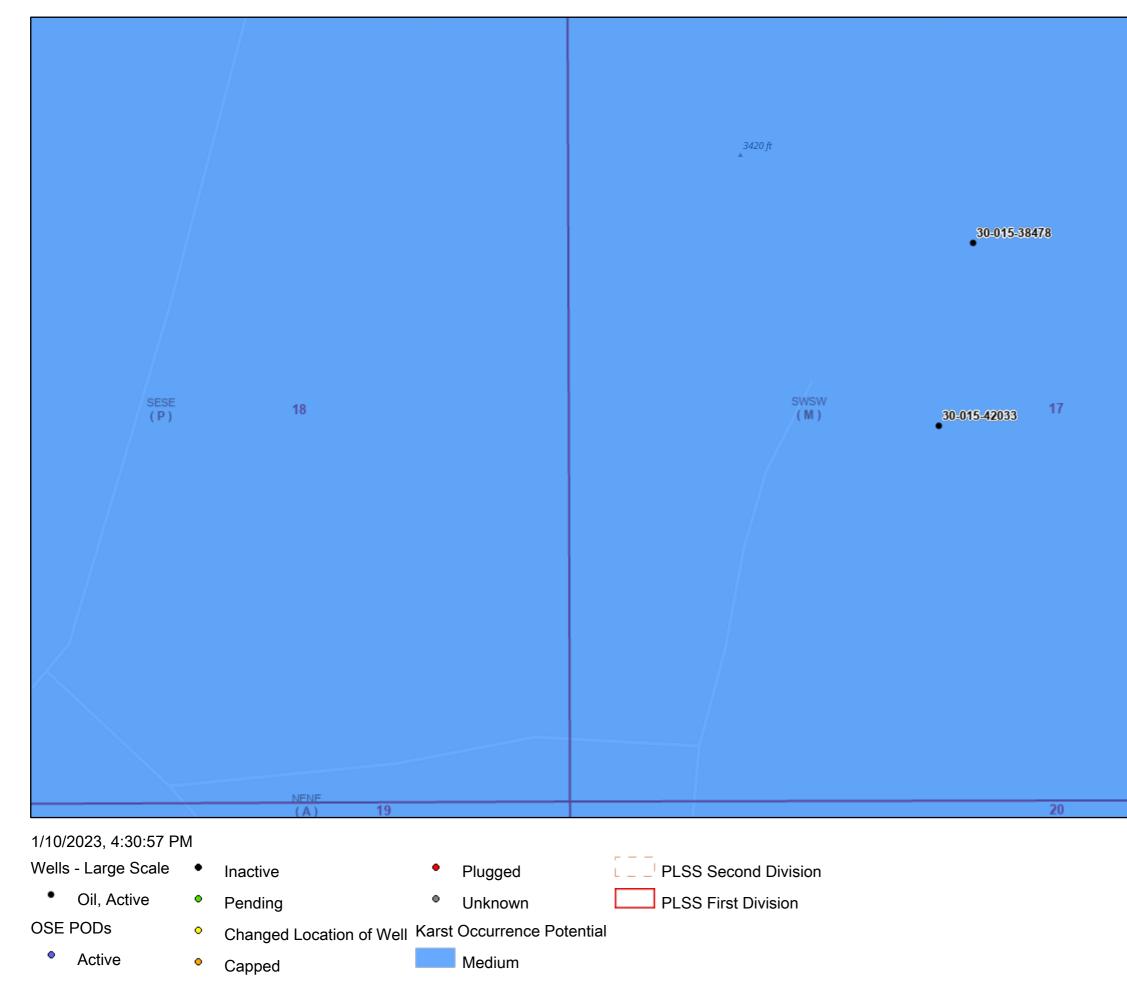
Devon Energy - Arcturus 18 Fed Com 8H Sec 17 T19S R31E 32.654000°, -103.899100° Eddy County, New Mexico

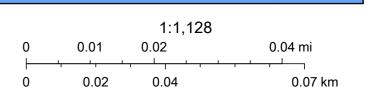
Site Characterization -No water features within specified distances of 1/2 mile radius -Medium Karst

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

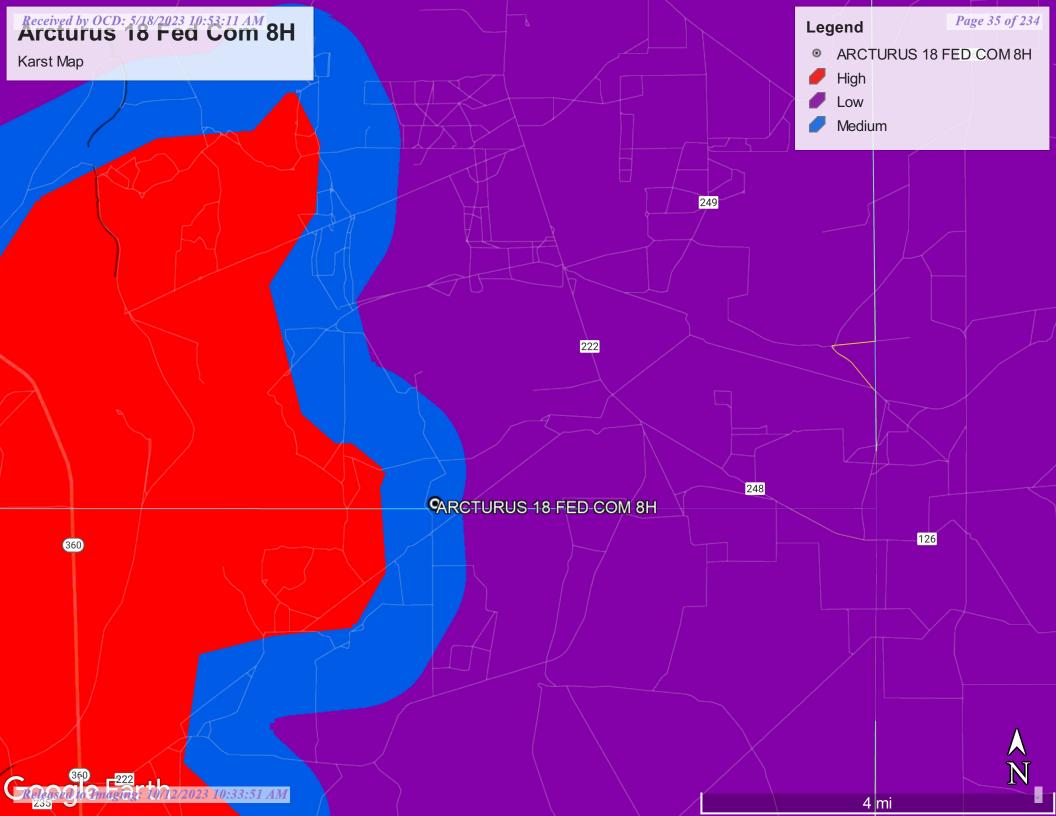
OCD Well Locations

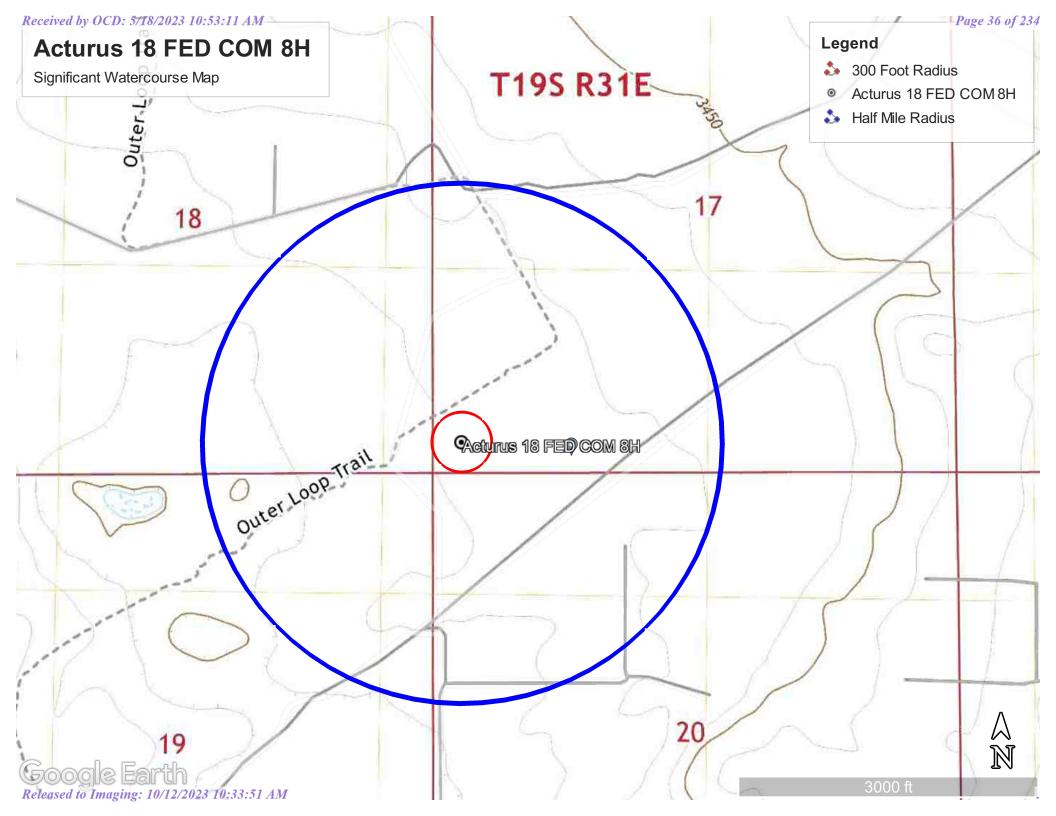




BLM, OCD, New Mexico Tech, OSE GIS, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Esri Community Maps Contributors, New Mexico State

New Mexico Oil Conservation Division





U.S. Fish and Wildlife Service National Wetlands Inventory

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

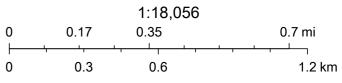


1/11/2023, 8:23:00 AM **GIS WATERS PODs**

New Mexico State Trust Lands

• Active

Both Estates OSE District Boundary SiteBoundaries



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

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Water Resources of the United States—National Water Information System (NWIS) Mapper

National Water Information System: Mapper

USGS Home Contact USGS Search USGS



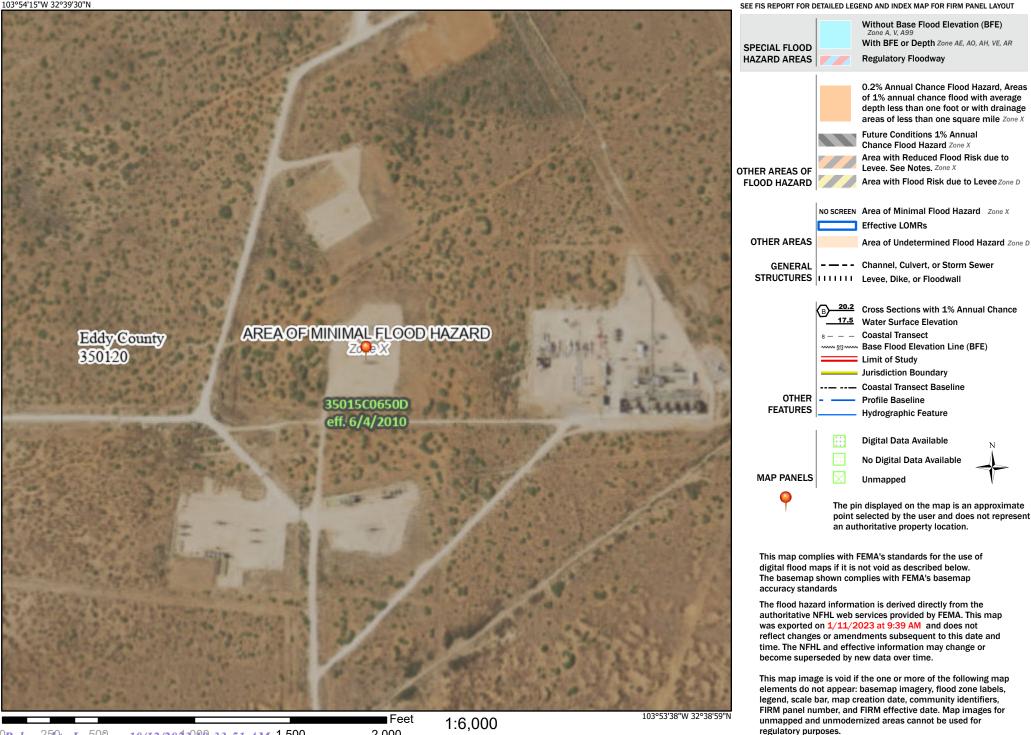
Received by OCD: 5/18/2023 10:53:11 AM National Flood Hazard Layer FIRMette

103°54'15"W 32°39'30"N



Legend

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Released to Imaging: 10/12/2023 00:33:51 AM 1,500

2.000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

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.

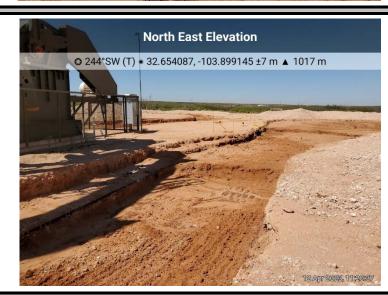


Photograph No. 3

- Facility: Arcturus 18 Fed Com 8H
- County: Eddy County, New Mexico

Description:

Final Excavation.



Devon Energy Production Company

Photograph No. 4

Facility: Arcturus 18 Fed Com 8H

Eddy County, New Mexico County:

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.



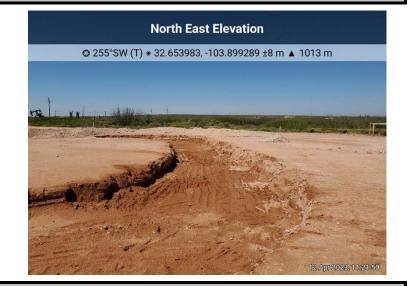
Devon Energy Production Company

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.



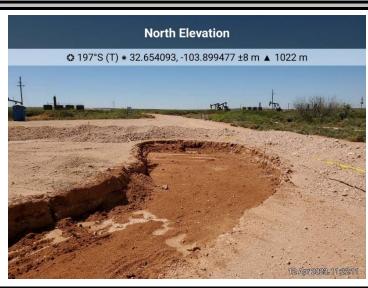
Photograph No. 9

Facility: Arcturus 18 Fed Com 8H

County: Eddy County, New Mexico

Description:

Final Excavation.



LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS

Received by OCD: 5/18/2023 10:53:11 AM



Environment Testing

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

See page two for job notes and contact information.

Received by OCD: 5/18/2023 10:53:11 AM

1

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

RAMER

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

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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Method Summary	47
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Client: NT Globa Project/Site: Arc		
Qualifiers		
Qualifier	Qualifier Description	_
*+ ©1	LCS and/or LCSD is outside acceptance limits, high biased.	
S1- U	Surrogate recovery exceeds control limits, low biased.	
	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 POS	Negative / Absent Positive / Present	
POS	Positive / Present Practical Quantitation Limit	
PQL PRES	Practical Quantitation Limit 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 Vacion (Dioxin)	
TNTC	Too Numeroue To Count	

TNTC Too Numerous To Count

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

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.

Job ID: 890-3839-1 SDG: 236740

Job ID: 890-3839-1

SDG: 236740

Lab Sample ID: 890-3839-1

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

Project/Site: Arcturus 18-8

Client: NT Global

Date Received: 01/13/23 12:17

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
oluene	<0.00201	U	0.00201		mg/Kg		01/16/23 14:28	01/17/23 23:27	1
thylbenzene	<0.00201	U	0.00201		mg/Kg		01/16/23 14:28	01/17/23 23:27	
n-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/16/23 14:28	01/17/23 23:27	
-Xylene	<0.00201	U *+	0.00201		mg/Kg		01/16/23 14:28	01/17/23 23:27	
Kylenes, Total	<0.00402	U *+	0.00402		mg/Kg		01/16/23 14:28	01/17/23 23:27	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
-Bromofluorobenzene (Surr)	92		70 - 130				01/16/23 14:28	01/17/23 23:27	
,4-Difluorobenzene (Surr)	96		70 - 130				01/16/23 14:28	01/17/23 23:27	
Method: TAL SOP Total BTEX - T	otal BTEX Calo	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
otal BTEX	<0.00402	U	0.00402		mg/Kg			01/18/23 14:26	
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
ōtal TPH	<49.9	U	49.9		mg/Kg			01/23/23 11:33	
Nethod: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
nalyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics GRO)-C6-C10	<49.9	U F2	49.9		mg/Kg		01/17/23 10:45	01/20/23 10:50	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/17/23 10:45	01/20/23 10:50	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/17/23 10:45	01/20/23 10:50	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
-Chlorooctane	110		70 - 130				01/17/23 10:45	01/20/23 10:50	
p-Terphenyl	113		70 - 130				01/17/23 10:45	01/20/23 10:50	
Method: MCAWW 300.0 - Anions	, Ion Chromato	graphy - S	oluble						
WELTOU. WICAWWW SUU.U - AMONS				MOL	Unit	D	Prepared	Analyzed	Dil Fa
	Result	Qualifier	RL	MDL					Birra
Analyte	Result 62.6		RL 5.05	MDL	mg/Kg			01/19/23 08:03	
Analyte Chloride				MDL			Lab Sar	01/19/23 08:03	
Analyte Chloride lient Sample ID: H-2 ate Collected: 01/12/23 00:00				MDL			Lab Sar	nple ID: 890-	3839-2
Analyte Chloride lient Sample ID: H-2 ate Collected: 01/12/23 00:00 ate Received: 01/13/23 12:17	62.6	F1	5.05	MDL			Lab Sar	nple ID: 890-	3839-2
Analyte Chloride lient Sample ID: H-2 ate Collected: 01/12/23 00:00 ate Received: 01/13/23 12:17 Method: SW846 8021B - Volatile	62.6 Organic Comp	F1	5.05	MDL	mg/Kg		Lab Sar	nple ID: 890-	3839-2 x: Solic
Analyte Chloride lient Sample ID: H-2 ate Collected: 01/12/23 00:00 ate Received: 01/13/23 12:17 Method: SW846 8021B - Volatile (Analyte	62.6 Organic Comp	F1 ounds (GC Qualifier	5.05		mg/Kg			nple ID: 890- Matri	
Analyte Chloride lient Sample ID: H-2 ate Collected: 01/12/23 00:00 ate Received: 01/13/23 12:17 Method: SW846 8021B - Volatile (Analyte Benzene	62.6 Organic Comp Result	F1 ounds (GC Qualifier U) RL		mg/Kg		Prepared	nple ID: 890- Matri Analyzed	3839-2 x: Solic Dil Fa
Analyte Chloride lient Sample ID: H-2 ate Collected: 01/12/23 00:00 ate Received: 01/13/23 12:17 Method: SW846 8021B - Volatile Analyte Benzene Toluene	62.6 Organic Comp Result 	F1 ounds (GC Qualifier U U	5.05		Unit mg/Kg		Prepared 01/16/23 14:28	nple ID: 890- Matri <u>Analyzed</u> 01/17/23 23:47	3839-2 x: Solic Dil Fa
Analyte Chloride lient Sample ID: H-2 ate Collected: 01/12/23 00:00 ate Received: 01/13/23 12:17 Method: SW846 8021B - Volatile (Analyte Benzene Foluene Ethylbenzene m-Xylene & p-Xylene	62.6 Organic Comp Result <0.00202 <0.00202	F1 ounds (GC Qualifier U U U	5.05		Unit mg/Kg mg/Kg		Prepared 01/16/23 14:28 01/16/23 14:28	Analyzed 01/17/23 23:47	3839-2 x: Solic Dil Fa

0-Xylene	~0.00202	0 1	0.00202	ing/itg	01/10/20 14.20	01/11/25 25.47	
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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Matrix: Solid

5

Released to Imaging: 10/12/2023 10:33:51 AM

Client Sample Results

Job ID: 890-3839-1
SDG: 236740

Matrix: Solid

5

Lab Sample ID: 890-3839-2

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

Project/Site: Arcturus 18-8

Client: NT Global

Date Received: 01/13/23 12:17

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 Organ	ics (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 - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		01/17/23 10:45	01/20/23 11:56	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		01/17/23 10:45	01/20/23 11:56	1
C10-C28)									
Oll 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 Chromato	graphy - So	oluble						
Analyte		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

Date Collected: 01/12/23 00:00 Date Received: 01/13/23 12:17 Lab Sample ID: 890-3839-3 Matrix: Solid

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 - Tota									
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 R	ange Organ	ics (DRO) (O	SC)						
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 Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		01/17/23 10:45	01/20/23 12:18	1

<49.9 U

49.9

mg/Kg

01/17/23 10:45

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1

01/20/23 12:18

(GRO)-C6-C10

C10-C28)

Diesel Range Organics (Over

Client Sample Results

Job ID: 890-3839-1
SDG: 236740

Matrix: Solid

5

Lab Sample ID: 890-3839-3

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

Project/Site: Arcturus 18-8

Client: NT Global

Date Received: 01/13/23 12:17

Analyte		Qualifier	(GC) (Continue) (RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Oll Range Organics (Over C28-C36)			49.9		mg/Kg		01/17/23 10:45	01/20/23 12:18	
	1010	•	1010				0.11120.10110	0 1/20/20 12:10	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	100		70 - 130				01/17/23 10:45	01/20/23 12:18	
o-Terphenyl	103		70 - 130				01/17/23 10:45	01/20/23 12:18	
Method: MCAWW 300.0 - Anions	s, Ion Chromato	graphy - S	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	454		5.00		mg/Kg			01/19/23 08:28	
lient Sample ID: H-4							Lab Sar	nple ID: 890-	3839-
ate Collected: 01/12/23 00:00 ate Received: 01/13/23 12:17								Matri	x: Soli
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte		Qualifier	, RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	-	0.00199		mg/Kg		01/16/23 14:28	01/18/23 00:28	
Toluene	<0.00199		0.00199		mg/Kg		01/16/23 14:28	01/18/23 00:28	
Ethylbenzene	<0.00199		0.00199		mg/Kg		01/16/23 14:28	01/18/23 00:28	
n-Xylene & p-Xylene	<0.00398		0.00398		mg/Kg		01/16/23 14:28	01/18/23 00:28	
p-Xylene	< 0.00199	U *+	0.00199		mg/Kg		01/16/23 14:28	01/18/23 00:28	
Xylenes, Total	<0.00398		0.00398		mg/Kg		01/16/23 14:28	01/18/23 00:28	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
4-Bromofluorobenzene (Surr)	97		70 - 130				01/16/23 14:28	01/18/23 00:28	
1,4-Difluorobenzene (Surr)	91		70 - 130				01/16/23 14:28	01/18/23 00:28	
Method: TAL SOP Total BTEX - 1	Total BTEX Cal	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/18/23 14:26	
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Total TPH	52.3		49.8		mg/Kg			01/23/23 11:33	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		01/17/23 10:45	01/20/23 12:40	
			49.8		mg/Kg		01/17/23 10:45	01/20/23 12:40	
(GRO)-C6-C10	52.3								
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		U			ma/Ka		01/17/23 10:45	01/20/23 12:40	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.8		49.8		mg/Kg		01/17/23 10:45	01/20/23 12:40	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.8 %Recovery		49.8 Limits		mg/Kg		Prepared	Analyzed	Dil F
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.8 		49.8 Limits 70 - 130		mg/Kg		Prepared 01/17/23 10:45	Analyzed 01/20/23 12:40	Dil F
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.8 %Recovery		49.8 Limits		mg/Kg		Prepared	Analyzed	Dil F
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: MCAWW 300.0 - Anions Analyte	<49.8 	Qualifier	49.8 Limits 70 - 130 70 - 130		mg/Kg Unit	D	Prepared 01/17/23 10:45	Analyzed 01/20/23 12:40	Dil F

Job ID: 890-3839-1

Lab Sample ID: 890-3839-5

SDG: 236740

Matrix: Solid

5

Client Sample ID: H-5 Date Collected: 01/12/23 00:00

Project/Site: Arcturus 18-8

Client: NT Global

Date Received: 01/13/23 12:17

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
p-Xylene	<0.00200	U *+	0.00200		mg/Kg		01/16/23 14:28	01/18/23 00:49	1
Kylenes, 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
-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	-
Method: TAL SOP Total BTEX - T	otal BTEX Calo	culation							
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 - Diese	I Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
otal TPH	<49.9	U	49.9		mg/Kg			01/23/23 11:33	
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/17/23 10:45	01/20/23 13:02	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/17/23 10:45	01/20/23 13:02	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/17/23 10:45	01/20/23 13:02	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
I-Chlorooctane	88		70 - 130				01/17/23 10:45	01/20/23 13:02	
p-Terphenyl	95		70 - 130				01/17/23 10:45	01/20/23 13:02	
Method: MCAWW 300.0 - Anions	, Ion Chromato	ography - So	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	328		4.96		mg/Kg			01/19/23 08:40	1
lient Sample ID: H-6							Lab Sar	nple ID: 890-	3839-6
ate Collected: 01/12/23 00:00 ate Received: 01/13/23 12:17								Matri	x: Solio
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)							
Analyte		Qualifier) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa

Analyte	Result	Quaimer	RL	NUDL	Unit	U	Frepareu	Analyzeu	DIFAC
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

Client Sample Results

Job ID: 890-3839-1
SDG: 236740

Matrix: Solid

5

Lab Sample ID: 890-3839-6

Client Sample ID: H-6 Date Collected: 01/12/23 00:00

Project/Site: Arcturus 18-8

Client: NT Global

Date Received: 01/13/23 12:17

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 - Diese	I Range Organ	ics (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 - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 13:25	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 13:25	1
C10-C28)									
Oll 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 Chromato	ography - So	oluble						
Analyte		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

Date Collected: 01/12/23 00:00 Date Received: 01/13/23 12:17 Lab Sample ID: 890-3839-7 Matrix: Solid

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

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 - Die	esel Range Organ	ics (DRO) (O	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 - D	iesel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 13:46	1

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01/20/23 13:46

Diesel Range Organics (Over

C10-C28)

50.0

mg/Kg

01/17/23 10:45

<50.0 U

1

Client Sample Results

Job ID: 890-3839-1 SDG: 236740

Lab Sample ID: 890-3839-7

Client Sample ID: H-7

Project/Site: Arcturus 18-8

Client: NT Global

Date Collected: 01/12/23 00:00 Date Received: 01/13/23 12:17

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll 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
lient Sample ID: H-8							Lab San	nple ID: 890-	3839-8
Client Sample ID: H-8							Lab San	nple ID: 890-	3839-8
Date Collected: 01/12/23 00:00								Matri	x: Solid
Date Received: 01/13/23 12:17									
- Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	< 0.00199		0.00199		mg/Kg		01/16/23 14:28	01/18/23 01:50	1
Benzene	<0.00199	0	0.00100				01/10/20 11.20	01/10/20 01:00	
Benzene Toluene	<0.00199		0.00199		mg/Kg		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
4-Bromofluorobenzene (Surr)	102		70 - 130		01/16/23 14:28	01/18/23 01:50	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Xylenes, Total	<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
m-Xylene & p-Xylene	<0.00398	U	0.00398	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
Ioluene	<0.00199	0	0.00199	mg/Kg	01/16/23 14:28	01/18/23 01:50	

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	e Organ	ics (DRO) (GO)						
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
L	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	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 14:09	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 14:09	1
C10-C28)									
Oll 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 Chromato	ography - So	oluble						
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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Matrix: Solid

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Job ID: 890-3839-1

Lab Sample ID: 890-3839-9

SDG: 236740

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

Project/Site: Arcturus 18-8

Client: NT Global

Date Received: 01/13/23 12:17

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		01/16/23 14:28	01/18/23 02:11	
Toluene	<0.00199	U	0.00199		mg/Kg		01/16/23 14:28	01/18/23 02:11	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/16/23 14:28	01/18/23 02:11	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/16/23 14:28	01/18/23 02:11	
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		01/16/23 14:28	01/18/23 02:11	
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		01/16/23 14:28	01/18/23 02:11	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	100		70 - 130				01/16/23 14:28	01/18/23 02:11	
1,4-Difluorobenzene (Surr)	81		70 - 130				01/16/23 14:28	01/18/23 02:11	
Method: TAL SOP Total BTEX - T	otal BTEX Calo	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/18/23 14:26	
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9		mg/Kg			01/23/23 11:33	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		01/17/23 10:45	01/20/23 14:31	
(GRO)-C6-C10									
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/17/23 10:45	01/20/23 14:31	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/17/23 10:45	01/20/23 14:31	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	106		70 - 130				01/17/23 10:45	01/20/23 14:31	
o-Terphenyl	113		70 - 130				01/17/23 10:45	01/20/23 14:31	
Method: MCAWW 300.0 - Anions	. Ion Chromato	ography - Se	oluble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	178		4.99		mg/Kg			01/19/23 09:17	
lient Sample ID: S-1 (1-1.5)							Lab Sam	ple ID: 890-3	839-1

Sample Depth: 1 - 1.5

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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Matrix: Solid

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Released to Imaging: 10/12/2023 10:33:51 AM

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Client Sample Results

Job ID: 890-3839-1 SDG: 236740

Client: NT Global Project/Site: Arcturus 18-8 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 MDL Dil Fac RL Unit D Prepared Analyzed Total BTEX <0.00398 U 01/18/23 14:26 0.00398 mg/Kg Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac Total TPH <49.9 U 49.9 01/23/23 11:33 mg/Kg Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <49.9 U 49.9 mg/Kg 01/17/23 10:45 01/20/23 14:53 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 49.9 mg/Kg 01/17/23 10:45 01/20/23 14:53 C10-C28) Oll Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 01/17/23 10:45 01/20/23 14:53 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 96 70 - 130 01/17/23 10:45 01/20/23 14:53 1-Chlorooctane 107 o-Terphenyl 70 1.30 01/17/23 10:45 01/20/23 14:53 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 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 <0.00200 U 0.00200 01/16/23 14:28 01/18/23 03:54 Benzene mg/Kg Toluene 01/18/23 03:54 <0.00200 U 0.00200 mg/Kg 01/16/23 14:28 Ethylbenzene <0.00200 U 0.00200 mg/Kg 01/16/23 14:28 01/18/23 03:54 <0.00399 U 0.00399 01/16/23 14:28 01/18/23 03:54 m-Xylene & p-Xylene mg/Kg o-Xylene <0.00200 U*+ 0.00200 mg/Kg 01/16/23 14:28 01/18/23 03:54 Xylenes, Total <0.00399 U*+ 0.00399 mg/Kg 01/16/23 14:28 01/18/23 03:54 %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 01/16/23 14:28 4-Bromofluorobenzene (Surr) 74 70 - 130 01/18/23 03:54 89 70 - 130 01/16/23 14:28 01/18/23 03:54 1,4-Difluorobenzene (Surr) 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

Method: SW846 8015 NM - Diesel Ran	ge Orgar	ics (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 Ra	nge Orga	nics (DRO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg			01/17/23 10:45	01/20/23 15:37	1
(GRO)-C6-C10										

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Job ID: 890-3839-1 SDG: 236740

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3839-11

Lab Sample ID: 890-3839-12

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

Date Collected: 01/12/23 00:00

Project/Site: Arcturus 18-8

Client: NT Global

Date Received: 01/13/23 12:17 Sample Depth: 2 - 2.5

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
Oll 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)

Date Collected: 01/12/23 00:00

Date Received: 01/13/23 12:17 Sample Dopth: 1 - 1 5

Sample Depth: 1 - 1.5

Method: SW846 8021B - Volati	le Organic Comp	ounds (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 - Tot	al BTEX Calo	ulation							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	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 U	Init	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	m	ng/Kg		01/17/23 10:45	01/20/23 15:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	m	ng/Kg		01/17/23 10:45	01/20/23 15:59	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	m	ng/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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		Clie	nt Sample R	esults	;				
Client: NT Global								Job ID: 890	-3839-1
Project/Site: Arcturus 18-8								SDG:	236740
Client Sample ID: S-2 (1-1.5)							Lab Sam	ple ID: 890-3	839-12
Date Collected: 01/12/23 00:00								•	x: Solid
Date Received: 01/13/23 12:17									
Sample Depth: 1 - 1.5									
			De la la la						
Method: MCAWW 300.0 - Anions, Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	176		4.99		mg/Kg			01/19/23 09:48	1
$\frac{1}{2}$							Lah Sam	PIO ID: 900 2	020 12
Client Sample ID: S-2 (2-2.5)							Lab Salli	ple ID: 890-3	
Date Collected: 01/12/23 00:00 Date Received: 01/13/23 12:17 Sample Depth: 2 - 2.5								Watri	x: Solid
Method: SW846 8021B - Volatile C	Organic Comp	ounds (GC	C)						
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 - To	otal BTEX Calo	culation							
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 Organ	ics (DRO)	(GC)						
Analyte		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 - Diese	al Range Orga	nics (DRO)) (GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9		49.9		mg/Kg		01/17/23 10:45	01/20/23 16:20	1
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9	U.	49.9		mg/Kg		01/17/23 10:45	01/20/23 16:20	1
C10-C28)	5.57	5	-10.0		mgrivy		51/11/20 10.40	51/20/20 10.20	1
Oll 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 Chromato	ography - S	Soluble						
Analyte									
· ·····	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

RL

0.00199

0.00199

0.00199

0.00398

0.00199

0.00398

Limits

70 - 130

70 - 130

RL

RL

0.00398

MDL

MDL Unit

MDL Unit

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

D

D

Prepared

01/16/23 14:28

01/16/23 14:28

01/16/23 14:28

01/16/23 14:28

01/16/23 14:28

01/16/23 14:28

Prepared

01/16/23 14:28

01/16/23 14:28

Prepared

Prepared

Job ID: 890-3839-1 SDG: 236740

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

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

Result Qualifier

<0.00199 U

<0.00199 U

<0.00199 U

<0.00398 U

<0.00199 U*+

<0.00398 U*+

96

75

Result Qualifier

U

Result Qualifier

Qualifier

%Recovery

< 0.00398

Date Collected: 01/12/23 00:00 Date Received: 01/13/23 12:17

Sample Depth: 1 - 1.5

Project/Site: Arcturus 18-8

Client: NT Global

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Analyte

Analyte

Total BTEX

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Lab Sample ID: 890-3839-14 Matrix: Solid

Analyzed

01/18/23 04:56

01/18/23 04:56

01/18/23 04:56

01/18/23 04:56

01/18/23 04:56

01/18/23 04:56

Analyzed

01/18/23 04:56

01/18/23 04:56

Analyzed

01/18/23 14:26

Analyzed

5 Dil Fac 1 Dil Fac

Dil Fac 1 1 1 1 Dil Fac 1

Total TPH	<50.0	U	50.0		mg/Kg			01/23/23 11:33	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (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
Oll 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 Chromato	ography - S	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3200		25.0		mg/Kg			01/19/23 10:12	5

Date Collected: 01/12/23 00:00 Date Received: 01/13/23 12:17 Sample Depth: 2 - 2.5

Method: SW846 8021B - Volat	ile Organic Comp	ounds (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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Matrix: Solid

Released to Imaging: 10/12/2023 10:33:51 AM

1/23/2023

Client Sample Results

Limits

70 - 130

RL

RL

50.0

RL

50.0

50.0

0.00402

MDL Unit

MDL Unit

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Job ID: 890-3839-1 SDG: 236740

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

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

%Recovery Qualifier

66 S1-

Result Qualifier

Result Qualifier

Result Qualifier

<50.0 U

<50.0 U

<50.0 U

<0.00402 U

Date Collected: 01/12/23 00:00 Date Received: 01/13/23 12:17

Project/Site: Arcturus 18-8

Sample Depth: 2 - 2.5

1,4-Difluorobenzene (Surr)

Gasoline Range Organics

Diesel Range Organics (Over

Surrogate

Analyte

Analyte

Analyte

C10-C28)

(GRO)-C6-C10

Total TPH

Total BTEX

Client: NT Global

Lab Sample ID: 890-3839-15

Analyzed

01/18/23 05:16

Analyzed

01/18/23 14:26

Analyzed

01/23/23 11:33

Analyzed

01/20/23 17:05

01/20/23 17:05

Lab Sample ID: 890-3839-16

Prepared

01/16/23 14:28

Prepared

Prepared

Prepared

01/17/23 10:45

01/17/23 10:45

D

D

D

Matrix: Solid

Dil Fac

Dil Fac

Dil Fac

Dil Fac	
1	
1	13

Dil Fac

Matrix: Solid

1

Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	01/17/23 10:45	01/20/23 17:05
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed
1-Chlorooctane	99		70 - 130		01/17/23 10:45	01/20/23 17:05
o-Terphenyl	109		70 _ 130		01/17/23 10:45	01/20/23 17:05
С Г						

Method: MCAWW 300.0 - Anions, I	on Chromato	graphy - Solul	ble						
Analyte	Result	Qualifier	RL	MDL U	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.0		4.95	r	mg/Kg			01/19/23 10:19	1

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

Date Collected: 01/12/23 00:00 Date Received: 01/13/23 12:17 Sample Depth: 1 - 1.5

Method: SW846 8021B - Volatile	Organic Comp	ounds (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 - 1	otal BTEX Calo	culation							
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 - Diese	l Range Organ	ics (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

Job ID: 890-3839-1 SDG: 236740

Lab Sample ID: 890-3839-17

Matrix: Solid

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

Date Collected: 01/12/23 00:00 Date Received: 01/13/23 12:17

Sample Depth: 1 - 1.5

Project/Site: Arcturus 18-8

Client: NT Global

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
Oll 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	Resu		L MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11	5 5.0		mg/Kg			01/19/23 10:25	1

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

Date Collected: 01/12/23 00:00 Date Received: 01/13/23 12:17

Sample Depth: 2 - 2.5

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
								04/40/00 05 57	1
1,4-Difluorobenzene (Surr)	92	culation	70 - 130				01/16/23 14:28	01/18/23 05:57	1
Method: TAL SOP Total BTEX	- Total BTEX Cal					_			,
Method: TAL SOP Total BTEX Analyte	- Total BTEX Calo Result	Qualifier	RL	MDL	Unit ma/Ka	<u>D</u>	01/16/23 14:28 Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte	- Total BTEX Cal	Qualifier		MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX	- Total BTEX Cale Result <0.00398	Qualifier U	RL 0.00398	MDL		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Cale Result <0.00398	Qualifier U	RL 0.00398			<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Cale Result <0.00398	Qualifier U ics (DRO) (Qualifier	RL 0.00398		mg/Kg		Prepared	Analyzed 01/18/23 14:26	1
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Cale Result <0.00398 sel Range Organ Result <49.9	Qualifier U ics (DRO) (Qualifier U	RL 0.00398 GC) RL 49.9		mg/Kg Unit		Prepared	Analyzed 01/18/23 14:26 Analyzed	1
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D	- Total BTEX Cale Result <0.00398 sel Range Organ Result <49.9 iesel Range Orga	Qualifier U ics (DRO) (Qualifier U	RL 0.00398 GC) RL 49.9		mg/Kg Unit		Prepared	Analyzed 01/18/23 14:26 Analyzed	1
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte	- Total BTEX Cale Result <0.00398 sel Range Organ Result <49.9 iesel Range Orga	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 01/18/23 14:26 Analyzed 01/23/23 11:33	1 Dil Fac 1
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Cald Result <0.00398 esel Range Organ Result <49.9 iesel Range Orga Result	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00398 GC) RL 49.9 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared Prepared	Analyzed 01/18/23 14:26 Analyzed 01/23/23 11:33 Analyzed	1 Dil Fac 1

C10-C28) 01/17/23 10:45 Oll Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 01/20/23 17:48 1 Limits Dil Fac %Recovery Qualifier Prepared Analyzed Surrogate 70 - 130 01/17/23 10:45 1-Chlorooctane 01/20/23 17:48 103 1 o-Terphenyl 113 70 - 130 01/17/23 10:45 01/20/23 17:48 1

		Clier	it Sample R	lesults	;				
Client: NT Global								Job ID: 890	
Project/Site: Arcturus 18-8								SDG:	236740
Client Sample ID: S-4 (2-2.5) Date Collected: 01/12/23 00:00 Date Received: 01/13/23 12:17 Sample Depth: 2 - 2.5							Lab Sam	ple ID: 890-3 Matri	839-17 ix: Solic
Method: MCAWW 300.0 - Anions,	Ion Chromato	ography - S	oluble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	132		4.97		mg/Kg			01/19/23 10:31	
Client Sample ID: S-5 (1-1.5)							l ah Sam	ple ID: 890-3	830-19
Date Collected: 01/12/23 00:00 Date Received: 01/13/23 12:17 Sample Depth: 1 - 1.5									ix: Solie
Method: SW846 8021B - Volatile C			•						
Analyte		Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fa
Benzene	<0.00200		0.00200		mg/Kg		01/16/23 14:28	01/18/23 06:18	
Toluene	<0.00200		0.00200		mg/Kg		01/16/23 14:28	01/18/23 06:18	
Ethylbenzene	<0.00200		0.00200		mg/Kg		01/16/23 14:28	01/18/23 06:18	
m-Xylene & p-Xylene	<0.00399		0.00399		mg/Kg		01/16/23 14:28	01/18/23 06:18	
o-Xylene	<0.00200		0.00200		mg/Kg		01/16/23 14:28	01/18/23 06:18	
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		01/16/23 14:28	01/18/23 06:18	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130				01/16/23 14:28	01/18/23 06:18	
1,4-Difluorobenzene (Surr)	88		70 - 130				01/16/23 14:28	01/18/23 06:18	
Method: TAL SOP Total BTEX - To	tal BTEX Calo	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/18/23 14:26	
- Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0		mg/Kg			01/23/23 11:33	
Method: SW846 8015B NM - Diese	l Range Orga	nics (DRO)	(60)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<50.0		50.0		mg/Kg		01/17/23 10:45	01/20/23 18:09	
(GRO)-C6-C10									
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 18:09	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 18:09	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	89		70 - 130				01/17/23 10:45	01/20/23 18:09	
o-Terphenyl	100		70 - 130				01/17/23 10:45	01/20/23 18:09	
Method: MCAWW 300.0 - Anions,	Ion Chromato	ography - S	oluble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
•									

Job ID: 890-3839-1 SDG: 236740

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

Date Collected: 01/12/23 00:00 Date Received: 01/13/23 12:17

Sample Depth: 1 - 1.5

Project/Site: Arcturus 18-8

Client: NT Global

Lab Sample ID: 890-3839-19 Matrix: Solid

11 12 13

Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201		mg/Kg		01/16/23 14:28	01/18/23 06:38	
Toluene	<0.00201	U	0.00201		mg/Kg		01/16/23 14:28	01/18/23 06:38	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/16/23 14:28	01/18/23 06:38	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/16/23 14:28	01/18/23 06:38	
o-Xylene	<0.00201		0.00201		mg/Kg		01/16/23 14:28	01/18/23 06:38	
Xylenes, Total	<0.00402		0.00402		mg/Kg		01/16/23 14:28	01/18/23 06:38	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	98		70 - 130				01/16/23 14:28	01/18/23 06:38	
1,4-Difluorobenzene (Surr)	86		70 - 130				01/16/23 14:28	01/18/23 06:38	
Method: TAL SOP Total BTEX - To									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/18/23 14:26	
Method: SW846 8015 NM - Diesel									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0		mg/Kg			01/23/23 11:33	
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg	_	01/17/23 10:45	01/20/23 18:31	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 18:31	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/17/23 10:45	01/20/23 18:31	
Surrogate		Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	91		70 - 130				01/17/23 10:45	01/20/23 18:31	
o-Terphenyl	99		70 - 130				01/17/23 10:45	01/20/23 18:31	
Method: MCAWW 300.0 - Anions,									
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
Chloride	36.6		4.95	_	mg/Kg	-		01/19/23 10:43	
							Lab Sam	ple ID: 890-3	839-2
								Matri	v Soli
								matri	x. 30m
ate Collected: 01/12/23 00:00								INIGUI I	x. 50m
ate Collected: 01/12/23 00:00 ate Received: 01/13/23 12:17									x. 3010
lient Sample ID: S-6 (1-1.5) ate Collected: 01/12/23 00:00 ate Received: 01/13/23 12:17 ample Depth: 1 - 1.5 Method: SW846 8021B - Volatile 0)						
ate Collected: 01/12/23 00:00 ate Received: 01/13/23 12:17 ample Depth: 1 - 1.5 Method: SW846 8021B - Volatile (Result	Qualifier		MDL	Unit	D	Prepared	Analyzed	
ate Collected: 01/12/23 00:00 ate Received: 01/13/23 12:17 ample Depth: 1 - 1.5 Method: SW846 8021B - Volatile (Analyte		Qualifier	·	MDL	Unit mg/Kg	<u>D</u>	Prepared 01/16/23 14:28		Dil Fa
ate Collected: 01/12/23 00:00 ate Received: 01/13/23 12:17 ample Depth: 1 - 1.5	Result	Qualifier		MDL		<u>D</u>	·	Analyzed	Dil Fa

m-Xylene & p-Xylene <0.00402 U 0.00402 01/16/23 14:28 01/18/23 06:59 mg/Kg 1 o-Xylene 0.00201 <0.00201 U*+ 01/16/23 14:28 01/18/23 06:59 mg/Kg 1 Xylenes, Total <0.00402 U*+ 0.00402 01/16/23 14:28 01/18/23 06:59 mg/Kg 1 Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 4-Bromofluorobenzene (Surr) 119 70 - 130 01/16/23 14:28 01/18/23 06:59 1

Client Sample Results

Job ID: 890-3839-1 SDG: 236740

Lab Sample ID: 890-3839-20

01/23/23 11:33

Lab Sample ID: 890-3839-21

Matrix: Solid

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

Date Collected: 01/12/23 00:00 Date Received: 01/13/23 12:17

Sample Depth: 1 - 1.5

Project/Site: Arcturus 18-8

Client: NT Global

Total TPH

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

<50.0 U

			, (,						
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 BTE	A - TOTAL BIEX Cald	culation							
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 - D	iesel Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

50.0

mg/Kg

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
Oll 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		ualifier 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)

Date Collected: 01/12/23 00:00 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 Toluene <0.00200 U 0.00200 01/16/23 13:58 01/18/23 09:43 mg/Kg 1 Ethylbenzene <0.00200 U 0.00200 mg/Kg 01/16/23 13:58 01/18/23 09:43 <0.00401 U 0.00401 01/18/23 09:43 m-Xylene & p-Xylene 01/16/23 13:58 mg/Kg 1 o-Xylene <0.00200 U 0.00200 mg/Kg 01/16/23 13:58 01/18/23 09:43 Xylenes, Total <0.00401 U 0.00401 mg/Kg 01/16/23 13:58 01/18/23 09:43 1 %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analvzed 70 - 130 01/16/23 13:58 4-Bromofluorobenzene (Surr) 122 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 01/19/23 14:42 mg/Kg 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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Matrix: Solid

5

Client Sample Results

Job ID: 890-3839-1 SDG: 236740

Lab Sample ID: 890-3839-21

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

Project/Site: Arcturus 18-8

Client: NT Global

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		01/16/23 14:04	01/17/23 20:16	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		01/16/23 14:04	01/17/23 20:16	1
C10-C28)									
Oll 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			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	s, Ion Chromato	ography - Se	oluble						
Method: MCAWW 300.0 - Anions Analyte	1	ography - So Qualifier	oluble RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

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Matrix: Solid

5

DFBZ1

(70-130)

BFB1

(70-130)

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

Lab Sample ID

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

Client Sample ID

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(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

SDG: 236740

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Job ID: 890-3839-1

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6

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Prep Type: Total/NA

Job ID: 890-3839-1 SDG: 236740

Prep Type: Total/NA

Project/Site: Arcturus 18-8 Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Client: NT Global

				Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		. !
890-3839-5	H-5	88	95		
890-3839-6	H-6	85	89		6
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		δ [
890-3839-12	S-2 (1-1.5)	91	99		
890-3839-13	S-2 (2-2.5)	99	108		<u> </u>
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

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43985/5-A									Client S	ample ID: N	lethod	Blanl
Matrix: Solid										Prep Ty	/pe: To	tal/N/
Analysis Batch: 44130										Prep	Batch:	4398
	M	З МВ										
Analyte	Resu	t Qualifier	RL		MDL	Unit		D	Prepared	Analyze	d	Dil Fa
Benzene	<0.0020	υ	0.00200			mg/Kg		01	/16/23 13:58	01/18/23 0	1:15	
Toluene	<0.0020	U C	0.00200			mg/Kg		01	/16/23 13:58	01/18/23 0	1:15	
Ethylbenzene	<0.0020	U C	0.00200			mg/Kg		01	/16/23 13:58	01/18/23 0	1:15	
m-Xylene & p-Xylene	<0.0040	D U	0.00400			mg/Kg		01	/16/23 13:58	01/18/23 0	1:15	
o-Xylene	<0.0020	D U	0.00200			mg/Kg		01	/16/23 13:58	01/18/23 0	1:15	
Xylenes, Total	<0.0040	D U	0.00400			mg/Kg		01	/16/23 13:58	01/18/23 0	1:15	
	M	3 <i>MB</i>										
Surrogate	%Recover	y Qualifier	Limits					_	Prepared	Analyze	d	Dil Fa
4-Bromofluorobenzene (Surr)	11	6	70 - 130					01.	/16/23 13:58	3 01/18/23 0	1:15	
1,4-Difluorobenzene (Surr)	9	9	70 - 130					01.	/16/23 13:58	3 01/18/23 0	1:15	
Lab Sample ID: LCS 880-43985/1-A								Clier	nt Sample	ID: Lab Co	ntrol S	ample
Matrix: Solid										Prep Ty		
Analysis Batch: 44130											Batch:	
······,····			Spike	LCS	LCS					%Rec		
Analyte			Added	Result	Qua	ifier	Unit	D	%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		
	LCS LC	s										
Surrogate %F	Recovery Qu	alifier	Limits									
4-Bromofluorobenzene (Surr)	118		70 - 130									
1,4-Difluorobenzene (Surr)	102		70 - 130									
Lab Sample ID: LCSD 880-43985/2-	4						Cli	ent Sa	mple ID:	Lab Control	Sampl	e Dur
Matrix: Solid									· ·	Prep Ty		
Analysis Batch: 44130											Batch:	
			Spike	LCSD	LCS	D				%Rec		RPI
Analyte			Added	Result	Qua	ifier	Unit	D	%Rec	Limits	RPD	Limi
Benzene			0.100	0.1007			mg/Kg		101	70 - 130	12	3
Toluene			0.100	0.09925			mg/Kg		99	70 - 130	11	3
Ethylbenzene			0.100	0.09608			mg/Kg		96	70 - 130	11	3
			0.000	0.1978			mg/Kg		99	70 - 130	12	3
m-Xylene & p-Xylene			0.200	0.1970			iliy/ry		99	10 - 130	12	0.

	LCSD	LCSD	
Surrogate	%Recovery	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 Ratch: 44120

Analysis Batch: 44130									Prej	o Batch: 43985
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%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	

Prep Type: Total/NA

Client Sample ID: Matrix Spike

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р	Batch:	43985	

Spike	LCS	LCS				%Rec	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
0.100	0.1135		mg/Kg		114	70 - 130	
0.100	0.1107		mg/Kg		111	70 - 130	
0.100	0.1073		mg/Kg		107	70 - 130	
0.200	0.2239		mg/Kg		112	70 - 130	
0.100	0.1081		mg/Kg		108	70 - 130	

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

QC Sample Results

MS MS

Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

Result

0.07801

0.1601

0.08117

Spike

Added

0.0996

0.199

0.0996

Limits 70 - 130

70 - 130

Project/Site: Arcturus 18-8

Analysis Batch: 44130

Matrix: Solid

Analyte

o-Xylene

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

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

Sample Sample

MS MS

112

98

Qualifier

Qualifier

Result

0.00643

0.00766

0.00469

%Recovery

Prep Type: Total/NA

Prep Batch: 43985

Client Sample ID: Matrix Spike

%Rec

Limits

70 - 130

70 - 130

70 - 130

%Rec

72

77

77

D

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Client Sample ID: Method Blank

01/17/23 12:24

01/17/23 12:24

Client Sample ID: Method Blank

01/16/23 14:20

01/16/23 14:20

Prep Type: Total/NA

Prep Batch: 43988

Matrix: Solid Analysis Batch: 44130

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

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Analysis Batch: 44130									Prep	Batch:	43985
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	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
	M6D	MSD									

	MSD	MSD	
Surrogate	%Recovery	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

	MB	MB							
Analyte	Result	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
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

%Recovery	Qualifier	Limits
114		70 - 130
98		70 - 130
	114	

Lab Sample ID: MB 880-43990/5-A Matrix: Solid Analysis Batch: 44129

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

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Prep Type: Total/NA

Prep Batch: 43990

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1

1

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

QC Sample Results

RL

0.00200

0.00400

Limits

70 - 130

70 - 130

MDL Unit

mg/Kg

mg/Kg

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

Analysis Batch: 44129

Matrix: Solid

Analyte

o-Xylene

Surrogate

Xylenes, Total

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

MB MB

MB MB Qualifier

83

87

<0.00200 U

<0.00400 U

%Recovery

Result Qualifier

Job ID: 890-3839-1 SDG: 236740						
d Blank	mple ID: Metho	Client Sa				
	· Prep Type: T					
: 43990	Prep Batch					
Dil Fac	Analyzed	Prepared	D			
1	01/17/23 23:05	01/16/23 14:28	_			
1	01/17/23 23:05	01/16/23 14:28				
Dil Fac	Analyzed	Prepared				
		01/16/23 14:28				
1	01/17/23 23:05	01/10/23 14.20				

Client Sample ID: Lab Control Sample Dup

Matrix: Solid Analysis Batch: 44129

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

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Analysis Batch: 44129							Prep Bate	ch: 43990
	Spike	LCS L	.cs				%Rec	
Analyte	Added	Result Q	Qualifier	Unit	D	%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	

	LCS	LCS	
Surrogate	%Recovery	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

Prep Batch: 43990 LCSD LCSD Spike %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit D 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

	LCSD	LCSD	
Surrogate	%Recovery	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

Analysis Batch: 44129									Prep	Batch: 43990
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%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	

Client Sample ID: H-1 Prep Type: Total/NA

Prep Type: Total/NA

QC Sample Results

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

Lab Sample ID: 890-3839-1 MS Matrix: Solid Analysis Batch: 44129

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

Lab Sample ID: 890-3839-1 MSD Matrix: Solid

Analysis Batch: 44129 Prep Batch: 43990 Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit <0.00201 U 0.0990 0.08877 90 70 - 130 5 35 Benzene mg/Kg Toluene <0.00201 U 0.0990 0.08596 mg/Kg 87 70 - 130 10 35 <0.00201 U 0.0990 0.07651 mg/Kg 77 70 - 130 10 35 Ethylbenzene 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

	14/30	WSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

MR MR

	N/D								
Analyte	Result	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
	МВ	МВ							
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 **Client Sample ID: Method Blank** Matrix: Solid Prep Type: Total/NA Analysis Batch: 44121 Prep Batch: 43987 MB MB Result Qualifier Dil Fac Analyte RL MDL Unit Prepared Analyzed D Gasoline Range Organics <50.0 U 50.0 01/16/23 14:04 01/17/23 11:49 mg/Kg 1 (GRO)-C6-C10 <50.0 U 50.0 01/16/23 14:04 01/17/23 11:49 **Diesel Range Organics (Over** mg/Kg 1 C10-C28) <50.0 U 50.0 01/16/23 14:04 01/17/23 11:49 Oll Range Organics (Over C28-C36) mg/Kg 1

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Job ID: 890-3839-1 SDG: 236740

Client Sample ID: H-1

Client Sample ID: H-1

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 43990

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 43991

Client: NT Global

Project/Site: Arcturus 18-8

Dil Fac

1

1

RPD

Limit

20

20

Job ID: 890-3839-1 SDG: 236740

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued) Lab Sample ID: MB 880-43987/1-A **Client Sample ID: Method Blank** Matrix: Solid Prep Type: Total/NA Analysis Batch: 44121 Prep Batch: 43987 MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed 1-Chlorooctane 103 70 - 13001/16/23 14:04 01/17/23 11:49 o-Terphenyl 103 70 - 130 01/16/23 14:04 01/17/23 11:49 Lab Sample ID: LCS 880-43987/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid Prep Type: Total/NA Analysis Batch: 44121 Prep Batch: 43987 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 1000 876.4 88 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 923.3 92 mg/Kg 70 - 130 C10-C28) LCS LCS Surrogate %Recovery Qualifier Limits 171 S1+ 70 - 130 1-Chlorooctane 161 S1+ 70 - 130 o-Terphenyl Lab Sample ID: LCSD 880-43987/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Total/NA Analysis Batch: 44121 Prep Batch: 43987 Spike LCSD LCSD %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD D Gasoline Range Organics 1000 990.8 mg/Kg 99 70 - 130 12 (GRO)-C6-C10 **Diesel Range Organics (Over** 1000 842.9 mg/Kg 84 70 - 130 9 C10-C28) LCSD LCSD %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 119 o-Terphenyl 98 70 - 130 Lab Sample ID: 890-3843-A-1-D MS **Client Sample ID: Matrix Spike** Matrix: Solid Prep Type: Total/NA Analysis Batch: 44121 Prep Batch: 43987 MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 90 70 - 130 o-Terphenyl 78 70 - 130 Lab Sample ID: 890-3843-A-1-D MSD **Client Sample ID: Matrix Spike Duplicate** Matrix: Solid Analysis Batch: 44121 Prep Batch: 43987

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

Prep Type: Total/NA

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Client: NT Global

Project/Site: Arcturus 18-8

QC Sample Results

Job ID: 890-3839-1 SDG: 236740

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

Matrix: Solid	- A										Client Sa	mple ID: M		
												Prep Ty	pe: To	otal/N/
Analysis Batch: 44410												Prep E	Batch	: 4414
		MB	MB											
Analyte	R	esult	Qualifier	RL		MDL	Unit		D	P	repared	Analyze	b	Dil Fa
Gasoline Range Organics GRO)-C6-C10	<	50.0	U	50.0			mg/Kg]	_	01/1	7/23 10:45	01/20/23 08	3:13	
Diesel Range Organics (Over C10-C28)	<	50.0	U	50.0			mg/Kg	J		01/1	7/23 10:45	01/20/23 08	8:13	
DII Range Organics (Over C28-C36)	<	50.0	U	50.0			mg/Kg	1		01/1	7/23 10:45	01/20/23 08	8:13	
		ΜВ	МВ											
Surrogate	%Reco	very	Qualifier	Limits						P	repared	Analyze	d	Dil Fa
1-Chlorooctane		120		70 - 130							7/23 10:45	01/20/23 08		
p-Terphenyl		135	S1+	70 - 130						01/1	7/23 10:45	01/20/23 08	3:13	
Lab Sample ID: LCS 880-44145/	2-A								С	lient	Sample I	D: Lab Coi	ntrol S	Sample
Matrix: Solid												Prep Ty	pe: To	otal/N/
Analysis Batch: 44410												Prep E	Batch	: 4414
				Spike	LCS	LCS						%Rec		
Analyte				Added	Result	Qual	ifier	Unit		D	%Rec	Limits		
Gasoline Range Organics				1000	903.1			mg/Kg			90	70 - 130		
GRO)-C6-C10				1000	923.3						92	70 - 130		
Diesel Range Organics (Over C10-C28)				1000	923.3			mg/Kg			92	70 - 130		
	LCS	LCS												
Surrogate	%Recovery	Qua	lifier	Limits										
1-Chlorooctane	103			70 - 130										
p-Terphenyl	111			70 - 130										
				70 - 750										
Lab Sample ID: LCSD 880-4414	5/3-A			70 - 130				Cli	ent	Sam	ple ID: La	ab Control	Samp	ole Du
Lab Sample ID: LCSD 880-4414 Matrix: Solid	5/3-A			10 - 130				Cli	ent	Sam	iple ID: La	ab Control Prep Ty		
	5/3-A			10 - 130				Cli	ent	Sam	iple ID: La		pe: To	otal/N/
Matrix: Solid	5/3-A			Spike	LCSD	LCSI	D	Cli	ent	Sam	iple ID: La	Prep Ty	pe: To	otal/N/ : 4414
Matrix: Solid	5/3-A				LCSD Result			Cli	ent	Sam D	p <mark>le ID: La</mark> %Rec	Prep Ty Prep B	pe: To	otal/N/ : 4414 RP
Matrix: Solid Analysis Batch: 44410	5/3-A			Spike					ent		-	Prep Ty Prep E %Rec	pe: To Batch	otal/N/ : 4414 RPI Lim
Matrix: Solid Analysis Batch: 44410 ^{Analyte}	5/3-A			Spike Added	Result			Unit	ent		%Rec	Prep Ty Prep E %Rec Limits	pe: To Batch RPD	otal/N/ : 4414 RPI Lim
Matrix: Solid Analysis Batch: 44410 Analyte Gasoline Range Organics	5/3-A			Spike Added	Result			Unit	ent		%Rec	Prep Ty Prep E %Rec Limits	pe: To Batch RPD	otal/N/ : 4414 RP Lim 2
Matrix: Solid Analysis Batch: 44410 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	5/3-A	LCS		Spike Added 1000	Result 856.5			Unit mg/Kg	ent		%Rec	Prep Ty Prep E %Rec Limits 70 - 130	pe: To Batch RPD 5	otal/N/ : 4414 RP Lim 2
Matrix: Solid Analysis Batch: 44410 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over		LCS		Spike Added 1000	Result 856.5			Unit mg/Kg	ent		%Rec	Prep Ty Prep E %Rec Limits 70 - 130	pe: To Batch RPD 5	otal/N/ : 4414 RPI Lim 2
Matrix: Solid Analysis Batch: 44410 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	LCSD			Spike Added 1000 1000	Result 856.5			Unit mg/Kg	ent		%Rec	Prep Ty Prep E %Rec Limits 70 - 130	pe: To Batch RPD 5	otal/N/
Matrix: Solid Analysis Batch: 44410 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	LCSD %Recovery			Spike <u>Added</u> 1000 1000 Limits	Result 856.5			Unit mg/Kg	ent		%Rec	Prep Ty Prep E %Rec Limits 70 - 130	pe: To Batch RPD 5	otal/N/ : 4414 RPI Lim 2
Matrix: Solid Analysis Batch: 44410 Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: 890-3839-1 MS	LCSD %Recovery 97			Spike Added 1000 1000 Limits 70 - 130	Result 856.5			Unit mg/Kg	ent		%Rec	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130	pe: To Batch RPD 5 8 8	otal/NJ : 4414 RPI <u>Lim</u> 2 2 ID: H-
Matrix: Solid Analysis Batch: 44410 Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane 5-Terphenyl	LCSD %Recovery 97			Spike Added 1000 1000 Limits 70 - 130	Result 856.5			Unit mg/Kg	ent		%Rec	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130	pe: To Batch RPD 5 8 8	otal/N/ : 4414 RPI Lim 2 2
Matrix: Solid Analysis Batch: 44410 Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: 890-3839-1 MS	LCSD %Recovery 97			Spike Added 1000 1000 Limits 70 - 130	Result 856.5			Unit mg/Kg	ent		%Rec	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130	mple pe: To batch	1D: H- otal/NJ 2
Matrix: Solid Analysis Batch: 44410 Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate A-Chlorooctane D-Terphenyl Lab Sample ID: 890-3839-1 MS Matrix: Solid	LCSD %Recovery 97	Qual	lifier	Spike Added 1000 1000 Limits 70 - 130	Result 856.5 855.1			Unit mg/Kg	ent		%Rec	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130 Client Sa Prep Ty	mple pe: To batch	ID: H- otal/N.
Matrix: Solid Analysis Batch: 44410 Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate A-Chlorooctane D-Terphenyl Lab Sample ID: 890-3839-1 MS Matrix: Solid	LCSD %Recovery 97 103	<u>Qual</u>	lifier	Spike Added 1000 1000 1000 1000 0.1000 Limits 70 - 130 70 - 130	Result 856.5 855.1	Qual	ifier	Unit mg/Kg	ent		%Rec	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130 Client Sa Prep Ty Prep E	mple pe: To batch	1D: H- otal/NJ 2
Matrix: Solid Analysis Batch: 44410 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: 890-3839-1 MS Matrix: Solid Analysis Batch: 44410	LCSD %Recovery 97 103 Sample	Quai Sam Quai	lifier	Spike Added 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 50 - 130 70 - 130 70 - 130 Spike	Result 856.5 855.1	Qual	ifier	Unit mg/Kg mg/Kg	ent	<u>D</u>	%Rec 86 86	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 Client Sa Prep Ty Prep E %Rec	mple pe: To batch	ID: H- otal/N.

QC Sample Results

Limits

Client Sample ID: H-1

Prep Type: Total/NA

Prep Batch: 44145

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1-Chlorooctane	100		70 - 130								
o-Terphenyl	91		70 - 130								
Lab Sample ID: 890-3839-1 MSD									Client S	ample II	D: H-1
Matrix: Solid										Type: To	
Analysis Batch: 44410										Batch:	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U F2	997	904.8	F2	mg/Kg		91	70 - 130	27	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	997	1110		mg/Kg		108	70 - 130	4	20
C10-C28)											
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	103		70 - 130								
o-Terphenyl	99		70 - 130								

Lab Sample ID: MB 880-44200/1-A											•	Client S	ample ID: Metho	
Matrix: Solid													Prep Type:	Soluble
Analysis Batch: 44257														
		MB												
Analyte	-		Qualifier		RL		MDL	Unit		D	Pr	epared	Analyzed	Dil Fac
Chloride	<{	5.00	U		5.00			mg/Kg					01/18/23 13:54	1
										Clie	nt	Sample	ID: Lab Control	Sample
Matrix: Solid													Prep Type:	
Analysis Batch: 44257														
				Spike		LCS	LCS						%Rec	
Analyte				Added		Result	Qual	ifier	Unit	[5	%Rec	Limits	
Chloride				250		251.5			mg/Kg			101	90 - 110	
_ Lab Sample ID: LCS 880-44200/3-A										Clio	nt	Sample	ID: Lab Control	Sample
												Sample		Sample
Matrix: Solid										one		Jampie		
Matrix: Solid										Olic		oampie	Prep Type:	
				Spike		LCS	LCS			One		Gample		
Matrix: Solid				Spike Added		LCS Result		ifier	Unit			%Rec	Prep Type:	
Matrix: Solid Analysis Batch: 44257				•				ifier	Unit mg/Kg			·	Prep Type: %Rec	
Matrix: Solid Analysis Batch: 44257 Analyte Chloride				Added		Result		ifier				% Rec 99	Kec Limits 90 - 110	Soluble
Matrix: Solid Analysis Batch: 44257 Analyte				Added		Result		ifier				% Rec 99	Prep Type: %Rec Limits 90 - 110 ent Sample ID: S-	Soluble
Matrix: Solid Analysis Batch: 44257 Analyte Chloride Lab Sample ID: 890-3839-21 MS Matrix: Solid				Added		Result		ifier				% Rec 99	Kec Limits 90 - 110	Soluble
Matrix: Solid Analysis Batch: 44257 Analyte Chloride Lab Sample ID: 890-3839-21 MS	Sample	Samp	 Ie	Added		Result 246.7		ifier				% Rec 99	Prep Type: %Rec Limits 90 - 110 ent Sample ID: S-	Soluble
Matrix: Solid Analysis Batch: 44257 Analyte Chloride Lab Sample ID: 890-3839-21 MS Matrix: Solid	Sample Result			Added 250		Result 246.7	Qual				2 -	% Rec 99	Prep Type: %Rec Limits 90 - 110 ant Sample ID: S- Prep Type:	Soluble

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

Analysis Batch: 44410

Matrix: Solid

Surrogate

Lab Sample ID: 890-3839-1 MS

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

MS MS %Recovery Qualifier

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										Clie	nt Sample Prep	ID: S-6 Type: S	
Analysis Batch: 44257											inop	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Analysis Batch. 44207	Sample	Sample	Spike	MS	D MS	SD					%Rec		RPD
Analyte		Qualifier	Added			ualifier	Unit		D	%Rec	Limits	RPD	Limi
Chloride	87.3		252	323			mg/Kg		_	94	90 - 110	1	2
Lab Sample ID: MB 880-44201/1-A Matrix: Solid										Client S	ample ID:		
											Prep	Type: S	
Analysis Batch: 44278		МВ МВ											
Analyte	R	esult Qualifier		RL	мп	L Unit		D	P	repared	Analyz	bot	Dil Fa
Chloride		<5.00 U		5.00		mg/Kg			-	repareu	01/19/23		Dirra
		-5.00 0		5.00		iiig/itg					01/13/23	07.40	
Lab Sample ID: LCS 880-44201/2-4								Clie	ent	Sample	ID: Lab C	ontrol S	ample
Matrix: Solid												Type: S	
Analysis Batch: 44278													
			Spike	LC	S LC	s					%Rec		
Analyte			Added	Resu	lt Qu	ualifier	Unit		D	%Rec	Limits		
Chloride			250	266	4		mg/Kg		_	107	90 - 110		
-													
Lab Sample ID: LCSD 880-44201/3 Matrix: Solid	-A						Cli	ent S	am	ple ID:	Lab Contro Pren	ol Samp Type: S	-
Analysis Batch: 44278												.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
			Spike	LCS	D LC	SD					%Rec		RPI
Analyte			Added			ualifier	Unit		D	%Rec	Limits	RPD	Limi
Chloride			250	266			mg/Kg		_	107	90 - 110	0	20
-													
Lab Sample ID: 890-3839-1 MS											Client S	Sample I	ID: H-1
Matrix: Solid											Prep	Type: S	Soluble
Analysis Batch: 44278													
	Sample	Sample	Spike	N	S MS	S					%Rec		
Analyte	Result	Qualifier	Added	Resu	lt Qu	ualifier	Unit		D	%Rec	Limits		
Chloride	62.6	F1	253	271	6 F1		mg/Kg			83	90 - 110		
Lab Sample ID: 890-3839-1 MSD											Client S		
Matrix: Solid											Prep	Type: S	soluble
Analysis Batch: 44278													
	-	Sample	Spike		D MS						%Rec		RPD
Analyte		Qualifier	Added			ualifier	Unit		D	%Rec	Limits	RPD	Limi
Chloride	62.6	F1	253	272	4 F1		mg/Kg			83	90 - 110	0	20
Lab Sample ID: 890-3839-11 MS										Clie	nt Sample		(2.2.5
Matrix: Solid										Cile			
Analysis Batch: 44278											Fieb	Type: S	
Analysis Batch. 44270	Sample	Sample	Spike	M	S MS	-					%Rec		
Analyta		Qualifier	-				Unit		D	% Pac			
Analyte Chloride	130		Added 252		6 F1	ualifier	mg/Kg	·	_	%Rec 56	Limits 90 - 110		
-	150		202	210	J 11		mg/ixy			50	50 - 110		
Lab Sample ID: 890-3839-11 MSD										Clie	nt Sample	ID: S-1	(2-2.5
Matrix: Solid												Type: S	
Analysis Batch: 44278												1.0.0	
	Sample	Sample	Spike	MS	D MS	SD					%Rec		RPD
	-	-	-						_	a/ B			
Analyte	Result	Qualifier	Added	Resi	lt Qu	ualifier	Unit		D	%Rec	Limits	RPD	Limi

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Method Blank

QC Association Summary

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

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Job ID: 890-3839-1 SDG: 236740

GC VOA

Prep Batch: 43985

Lab Sample ID	Client Sample ID	Ргер Туре	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

Total/NA

Solid

5035

Prep Batch: 43990

MB 880-43988/5-A

Lab Sample ID	Client Sample ID	Ргер Туре	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

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

GC VOA (Continued)

Analysis Batch: 44129 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	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	Ргер Туре	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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Job ID: 890-3839-1

SDG: 236740

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

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	Ргер Туре	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 Batc
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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Job ID: 890-3839-1 SDG: 236740

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

GC Semi VOA

Analysis Batch: 44261

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3839-1	H-1	Total/NA	Solid	8015 NM	
890-3839-2	H-2	Total/NA	Solid	8015 NM	2
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	3
890-3839-9	H-9	Total/NA	Solid	8015 NM	
890-3839-10	S-1 (1-1.5)	Total/NA	Solid	8015 NM	9
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	4
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	Ргер Туре	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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Job ID: 890-3839-1 SDG: 236740

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

Leach Batch: 44200

Lab Sample ID 890-3839-21 MB 880-44200/1-A LCS 880-44200/2-A LCS 880-44200/3-A 890-3839-21 MS 890-3839-21 MSD Leach Batch: 44201

Lab Sample ID 890-3839-1 890-3839-2 890-3839-3 890-3839-4 890-3839-5 890-3839-6 890-3839-7 890-3839-8 890-3839-9 890-3839-10 890-3839-11 890-3839-12 890-3839-13 890-3839-14 890-3839-15 890-3839-16 890-3839-17 890-3839-18 890-3839-19 890-3839-20 MB 880-44201/1-A LCS 880-44201/2-A LCSD 880-44201/3-A 890-3839-1 MS

HPLC/IC

Job ID: 890-3839-1 SDG: 236740

Client Sample ID	Prep Type	Matrix	Method	Prep Batch
S-6 (2-2.5)	Soluble	Solid	DI Leach	
Method Blank	Soluble	Solid	DI Leach	
Lab Control Sample	Soluble	Solid	DI Leach	
Lab Control Sample	Soluble	Solid	DI Leach	
S-6 (2-2.5)	Soluble	Solid	DI Leach	
S-6 (2-2.5)	Soluble	Solid	DI Leach	
Client Sample ID	Prep Type	Matrix Solid	Method	Prep Batch
H-1	Soluble		DI Leach	
H-2	Soluble	Solid	DI Leach	
H-3	Soluble	Solid	DI Leach	
H-4	Soluble	Solid	DI Leach	
H-5	Soluble	Solid	DI Leach	
H-6	Soluble	Solid	DI Leach	
H-7	Soluble	Solid	DI Leach	
H-8	Soluble	Solid	DI Leach	
H-9	Soluble	Solid	DI Leach	
S-1 (1-1.5)	Soluble	Solid	DI Leach	
S-1 (2-2.5)	Soluble	Solid	DI Leach	
S-2 (1-1.5)	Soluble	Solid	DI Leach	
S-2 (2-2.5)	Soluble	Solid	DI Leach	
S-3 (1-1.5)	Soluble	Solid	DI Leach	
S-3 (2-2.5)	Soluble	Solid	DI Leach	
S-4 (1-1.5)	Soluble	Solid	DI Leach	
S-4 (2-2.5)	Soluble	Solid	DI Leach	
S-5 (1-1.5)	Soluble	Solid	DI Leach	
S-5 (1-1.5)	Soluble	Solid	DI Leach	
S-6 (1-1.5)	Soluble	Solid	DI Leach	
Method Blank	Soluble	Solid	DI Leach	
Lab Control Sample	Soluble	Solid	DI Leach	

Analysis Batch: 44257

H-1

S-1 (2-2.5)

S-1 (2-2.5)

890-3839-1 MSD

890-3839-11 MS

890-3839-11 MSD

Lab Sample ID	Client Sample ID	Ргер Туре	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

Soluble

Soluble

Soluble

Solid

Solid

Solid

Analysis Batch: 44278

Lab Sample ID	Client Sample ID	Ргер Туре	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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DI Leach

DI Leach

DI Leach

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

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

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Job ID: 890-3839-1 SDG: 236740

Job ID: 890-3839-1 SDG: 236740

Matrix: Solid

Matrix: Solid

Matrix: Solid

5 6

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Lab Sample ID: 890-3839-1

Lab Sample ID: 890-3839-2

Lab Sample ID: 890-3839-3

Lab Sample ID: 890-3839-4

Client Sample ID: H-1

Project/Site: Arcturus 18-8

Client: NT Global

Date Collected: 01/12/23 00:00 Date Received: 01/13/23 12:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	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	СН	EET MID

Client Sample ID: H-2

Date Collected: 01/12/23 00:00

Date Received: 01/13/23 12:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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	СН	EET MID

Client Sample ID: H-3

Date Collected: 01/12/23 00:00 Passivad, 01/12/22 12:17

Date	Receiveu.	01/13/23	12.17
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	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	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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Released to Imaging: 10/12/2023 10:33:51 AM

Matrix: Solid

Job ID: 890-3839-1 SDG: 236740

Lab Sample ID: 890-3839-4 Matrix: Solid

Lab Sample ID: 890-3839-5

Date Collected: 01/12/23 00:00 Date Received: 01/13/23 12:17

Project/Site: Arcturus 18-8

Client Sample ID: H-4

Client: NT Global

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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	СН	EET MID

Client Sample ID: H-5 Date Collected: 01/12/23 00:00 Date Received: 01/13/23 12:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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	СН	EET MID

Client Sample ID: H-6

Date Collected: 01/12/23 00:00 Date Received: 01/13/23 12:17

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 4.97 g 5 mL 43990 01/16/23 14:28 MNR EET MID Total/NA 8021B 5 mL 5 mL 44129 01/18/23 01:09 MNR EET MID Analysis 1 Total/NA Total BTEX Analysis 1 44273 01/18/23 14:26 SM EET MID Total/NA Analysis 8015 NM 44261 01/23/23 11:33 SM EET MID 1 01/17/23 10:45 Total/NA Prep 8015NM Prep 10.01 g 10 mL 44145 DM EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 44410 01/20/23 13:25 SM EET MID 1 Soluble Leach DI Leach 5.05 g 50 mL 44201 01/17/23 16:53 KS EET MID Soluble Analysis 300.0 44278 01/19/23 08:59 СН EET MID 1

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	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 Sample ID: 890-3839-7

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Chronicle

Job ID: 890-3839-1 SDG: 236740

Lab Sample ID: 890-3839-7

Lab Sample ID: 890-3839-8

Lab Sample ID: 890-3839-9

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

Project/Site: Arcturus 18-8

Client: NT Global

Date Received: 01/13/23 12:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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	СН	EET MID

Client Sample ID: H-8

Date Collected: 01/12/23 00:00 Date Received: 01/13/23 12:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	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	СН	EET MID

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	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

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Matrix: Solid

9

Released to Imaging: 10/12/2023 10:33:51 AM

Job ID: 890-3839-1 SDG: 236740

Matrix: Solid

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9

Lab Sample ID: 890-3839-11

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

Client: NT Global

Project/Site: Arcturus 18-8

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	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	СН	EET MID

Lab Sample ID: 890-3839-12

Lab Sample ID: 890-3839-13

Lab Sample ID: 890-3839-14

Matrix: Solid

Matrix: Solid

Date Collected: 01/12/23 00:00 Date Received: 01/13/23 12:17

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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	СН	EET MID

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	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	СН	EET MID

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	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

Eurofins Carlsbad

Matrix: Solid

Released to Imaging: 10/12/2023 10:33:51 AM

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

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

Date Received: 01/13/23 12:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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	СН	EET MID

Client Sample ID: S-3 (2-2.5) Date Collected: 01/12/23 00:00 Date Received: 01/13/23 12:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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	СН	EET MID

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

Date Collected: 01/12/23 00:00 Date Received: 01/13/23 12:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	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) Date Collected: 01/12/23 00:00 Date Received: 01/13/23 12:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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

Matrix: Solid

Job ID: 890-3839-1 SDG: 236740

Lab Sample ID: 890-3839-14 Matrix: Solid

Lab Sample ID: 890-3839-15

Matrix: Solid

Lab Sample ID: 890-3839-16

Lab Sample ID: 890-3839-17

Matrix: Solid

Lab Chronicle

Job ID: 890-3839-1 SDG: 236740

Client Sample ID: S-4 (2-2.5) Date Collected: 01/12/23 00:00

Date Received: 01/13/23 12:17

Project/Site: Arcturus 18-8

Client: NT Global

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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	СН	EET MID

Client Sample ID: S-5 (1-1.5) Date Collected: 01/12/23 00:00 Date Received: 01/13/23 12:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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	СН	EET MID

Client Sample ID: S-5 (1-1.5) Date Collected: 01/12/23 00:00 Date Received: 01/13/23 12:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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	СН	EET MID

Client Sample ID: S-6 (1-1.5) Date Collected: 01/12/23 00:00 Date Received: 01/13/23 12:17

Lab Sample ID: 890-3839-20 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	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	СН	EET MID

Eurofins Carlsbad

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Lab Sample ID: 890-3839-17 Matrix: Solid Matrix: Solid Prepared 0r Analyzed Analyst Lab 1/17/23 16:53 KS EET MID 1/19/23 10:31 CH EET MID Lab Sample ID: 890-3839-18 Matrix: Solid Prepared or Analyzed Analyst Lab 1/16/23 14:28 MNR EET MID

Lab Sample ID: 890-3839-19 Matrix: Solid

Released to Imaging: 10/12/2023 10:33:51 AM

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

Client: NT Global

Project/Site: Arcturus 18-8

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	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	СН	EET MID

Laboratory References:

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

Eurofins Carlsbad

Released to Imaging: 10/12/2023 10:33:51 AM

Lab Sample ID: 890-3839-21 Matrix: Solid 5 6 7 8 9

			,		
Client: NT Global Project/Site: Arcturus ′	18-8			Job ID: 890-3839-1 SDG: 236740	
Laboratory: Eurof			reditation (contification holow)		
	analytes for this laboratory we	ere covered under each acc	reditation/certification below.		
Authority	Pr	ogram	Identification Number	Expiration Date	
Texas	N	ELAP	T104704400-22-25	06-30-23	
The following analytes	are included in this report by	It the laboratory is not certif	fied by the governing authority. This list ma	av include analytes for which	5
the agency does not o			ice by the governing dutionty. This list the		
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
Total BTEX		Solid	Total BTEX		
					8
					0
					9
					10
					4.0
					13

Eurofins Carlsbad

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Client: NT Global Project/Site: Arcturus 18-8 Job ID: 890-3839-1 SDG: 236740

lethod	Method Description	Protocol	Laboratory
021B	Volatile Organic Compounds (GC)	SW846	EET MID
otal BTEX	Total BTEX Calculation	TAL SOP	EET MID
015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
00.0	Anions, Ion Chromatography	MCAWW	EET MID
035	Closed System Purge and Trap	SW846	EET MID
015NM Prep	Microextraction	SW846	EET MID
01 Leach	Deionized Water Leaching Procedure	ASTM	EET MID
SW846 = '	= "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, N "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third E	I I	
TAL SOP :	 TestAmerica Laboratories, Standard Operating Procedure 		
Laboratory Re	eferences:		
EET MID =	= Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-544	0	

Protocol References:

Laboratory References:

Sample Summary

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

Job ID: 890-3839-1 SDG: 236740

.ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
390-3839-1	H-1	Solid	01/12/23 00:00	01/13/23 12:17	
390-3839-2	H-2	Solid	01/12/23 00:00	01/13/23 12:17	
390-3839-3	H-3	Solid	01/12/23 00:00	01/13/23 12:17	
390-3839-4	H-4	Solid	01/12/23 00:00	01/13/23 12:17	
390-3839-5	H-5	Solid	01/12/23 00:00	01/13/23 12:17	
390-3839-6	H-6	Solid	01/12/23 00:00	01/13/23 12:17	
390-3839-7	H-7	Solid	01/12/23 00:00	01/13/23 12:17	
390-3839-8	H-8	Solid	01/12/23 00:00	01/13/23 12:17	
390-3839-9	H-9	Solid	01/12/23 00:00	01/13/23 12:17	
390-3839-10	S-1 (1-1.5)	Solid	01/12/23 00:00	01/13/23 12:17	1 - 1.5
390-3839-11	S-1 (2-2.5)	Solid	01/12/23 00:00	01/13/23 12:17	2 - 2.5
390-3839-12	S-2 (1-1.5)	Solid	01/12/23 00:00	01/13/23 12:17	1 - 1.5
390-3839-13	S-2 (2-2.5)	Solid	01/12/23 00:00	01/13/23 12:17	2 - 2.5
390-3839-14	S-3 (1-1.5)	Solid	01/12/23 00:00	01/13/23 12:17	1 - 1.5
390-3839-15	S-3 (2-2.5)	Solid	01/12/23 00:00	01/13/23 12:17	2 - 2.5
390-3839-16	S-4 (1-1.5)	Solid	01/12/23 00:00	01/13/23 12:17	1 - 1.5
390-3839-17	S-4 (2-2.5)	Solid	01/12/23 00:00	01/13/23 12:17	2 - 2.5
390-3839-18	S-5 (1-1.5)	Solid	01/12/23 00:00	01/13/23 12:17	1 - 1.5
390-3839-19	S-5 (1-1.5)	Solid	01/12/23 00:00	01/13/23 12:17	1 - 1.5
390-3839-20	S-6 (1-1.5)	Solid	01/12/23 00:00	01/13/23 12:17	1 - 1.5
390-3839-21	S-6 (2-2.5)	Solid	01/12/23 00:00	01/13/23 12:17	2 - 2.5

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			2]2 2	231	1.13.			Ż		20	tennella
gnature) Date/Time	Received by: (Signature)	Relinquished by: (Signature)	œ	Date/Time		re)	Received by: (Signature)	Rece	5	oy: (Signature	Relinquished by: (Signature)
	and conditions ond the control egotiated.	nature 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 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 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 A minimum charge of \$55.00 will be applied to each project and a charge of \$5 for each sample submitted to Xanco, but not analyzed. These terms will be enforced unless previously negotiated.	iliates and su / the client if s yzed. These to	nco, its aff incurred by ut not anal	pany to Xe expenses i o Xenco, bu	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors 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 a of Xenco. A minimum charge of \$35.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be	titutes a valid purchas tassume any respons nd a charge of \$5 for ea	nples cons nd shall no n project al	elinquishment of sar he cost of samples a vill be applied to eacl	is document and r be liable only for t charge of \$85.00 w	Notice: Signature of th of service. Xenco will of Xenco. A minimum
									ents:	Additional Comments	Addi
			×	×		Comp	×		1/12/2023	S-1 (1-1.5)	S-1 (
			-	+	-	Comp	×		1/12/2023	H-9	н
			*	*		Comp	×		1/12/2023	H-8	н
			×	××		Comp	×		1/12/2023	H-7	Т
			×	××	-	Comp	×		1/12/2023	H-6	Т
				××	<u> </u>	Comp	×		1/12/2023	H-5	Т
				-	-	Comp	×		1/12/2023	H-4	т
			×	××		Comp	×		1/12/2023	H-3	Т
			×	××		Comp	×		1/12/2023	H-2	Т
			×	××	-	Comp	×		1/12/2023	H-1	н
Sample Comments				ТР	# of Cont	Water Comp	e Soil	Time	Date	Sample Identification	Sample Id
NaUH+Ascorbic Acid: SAPC		_		1 80		D. 6	Corrected Temperature:	Correc	21		Total Containers:
Zn Acetate+NaUH: Zn	And the second sec					2	Temperature Reading:	Tempe	Yes No WIA		Sample Custody Seals:
		890-3839 Chain of Custody	hlori	(GF	P	0.0	Correction Factor:	Correc	Yes No MA		Cooler Custody Seals:
NaHSO4: NABIS			_	-	arar	1-00-1	Thermometer ID:	Therm	Yes No		Received Intact:
			_	DRC	nete	Vres No	No Wet Ice:	Teg	Temp Blank:		SAMPLE RECEIPT
H ₂ SO ₄ : H ₂ NaOH: Na) + N	rs	lab, if received by 4:30pm	lab, if receiv		21104277		PO #
HCL: HC HNO3: HN	-	-		IRO		lay received by the	TAT starts the c		Jordan Tyner		Sampler's Name:
Cool: Cool MeOH: Me			, 	,	-		Due Date:		Eddy Co. NM		Project Location
None: NO DI Water: H ₂ O				-	Code	Rush	✓ Routine		236740		Project Number:
Preservative Codes		ANALYSIS REQUEST			-	Turn Around	Turn		Arcturus 18-8		Project Name:
AUaP1 L Other:	Deliverables: EUD	Delive		m	@dvn.co	Wesley.Mathews@dvn.com	Email:		56	254-266-5456	Phone:
Г		Repo	Artesia, NM 88210	Artesia, N		City, State ZIP:			IM 88220	Carlsbad, NM 88220	City, State ZIP:
	State of Project:		6488 Seven Rivers Highway	3488 Sev	6	Address:			d Ave	402 E Wood Ave	Address:
Brownfields ☐RRC ☐uperfund	ST PRP	Prog	rgy	Devon Energy		Company Name:			nmental	NTG Environmental	Company Name:
Work Order Comments	Work Or		lattews	Wesley Mattews	<	Bill to: (if different)			ums	Ethan Sessums	Project Manager:

Received by OCD: 5/18/2023 10:53:11 AM

Work Order No:





5 6

13

Chain of Custody

CUATWORNEULY	JEN1 DE							Page
Project Manager: Ethan Sessums	beelime		Bill to: (if different)	Wesley	Wesley Mattews		Work Order Comments	
Company Name: NTG En	NTG Environmental		Company Name:	Devon Energy	Energy		Program: UST/PST PRP Brownfields RRC	vnfields RRC uperfund
	lood Ave		Address:	6488 S	6488 Seven Rivers Highway	ighway	State of Project:	
le ZIP:	Carlsbad, NM 88220		City, State ZIP:	Artesia,	Artesia, NM 88210		Reporting:Level II Level III PST/UST	
	-5456	Email:)dvn.com			Deliverables: EDD ADaPT	of Other:
Project Name:	Arcturus 18-8	Turn	Turn Around			ANALYSIS REQUEST	UEST	Preservative Codes
Project Number:	236740	✓ Routine	Rush	Pres. Code				None: NO DI Water: H ₂ O
Project Location	Eddy Co. NM	Due Date:)			Cool: Cool MeOH: Me
Sampler's Name:	Jordan Tyner	TAT starts the	TAT starts the day received by the		MRO			
PO #	21104277	lab, it rece	lab, if received by 4:30pm	ers	0 + 1			H2SU4: H2 NACH: NA
SAMPLE RECEIPT	B	Yes No Wet los	Yes No	amete	+ DR 4500		D	H3PO4: HP
Cooler Custody Cooler		Iteritoring Easter					но	Na,S,O,: NaSO,
Sample Custody Seals:	NA	Temperature Reading:		вт				Zn Acetate+NaOH: Zn
Total Containers:	21	Corrected Temperature:			801			NaOH+Ascorbic Acid: SAPC
Sample Identification	Date	Time Soil	Water Comp	# of Cont	TPH			Sample Comments
S-1 (2-2.5)	1/12/2023	×	Comp	1 ×	×			
S-2 (1-1.5)	1/12/2023	×	Comp	1 ×	××			
S-2 (2-2.5)	1/12/2023	×	Comp	1 ×	××			
S-3 (1-1.5)	1/12/2023	×	Comp	1 ×	××			
S-3 (2-2.5)	1/12/2023	×	Comp	1 ×	××			
S-4 (1-1.5)	1/12/2023	×	Comp	1 ×	××			
S-4 (2-2.5)	1/12/2023	×	Comp	1 ×	××			
S-5 (1-1.5)	1/12/2023	×	Comp	+ ×	*			
S-5 (1-1.5)	1/12/2023	×	Comp	1 ×	××			
S-6 (1-1.5)	1/12/2023	×	Comp	1 ×	×××			
Additional Comments:	nments:							
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. 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 ar of Xenco. A minimum charge of \$5.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be	nd relinquishment of samp for the cost of samples and 00 will be applied to each p	les constitutes a valid purchas shall not assume any respons roject and a charge of \$5 for e	se order from client comp sibility for any losses or e sach sample submitted to	any to Xenco, its xpenses incurred Xenco, but not ar	affiliates and sut by the client if su valyzed. These te		 It assigns standard terms and conditions are due to circumstances beyond the control enforced unless previously negotiated. 	
Relinquished by: (Signature)	ure)	Received by: (Signature)	ıre)	Date/Time	ne		ture) Received by: (Signature)	ure) Date/Time
1 Junit Had					2			

Page 95 of 234

13

Chain of Custody

3 lughth	Relinguished by: (Signature)	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It 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 to 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 enfo	Additior				0-0 (2 2.0)	C-C/ A-2	Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	SAMPLE RECEIPT	PO #	Sampler's Name:	Project Location	Project Number:	Project Name:	Phone: 2	City, State ZIP: C	Address: 4		Project Manager: E	
	(Signature)	ocument and reling able only for the co rge of \$85.00 will be	Additional Comments:)	Л	fication		Yes	Tes	Yes		2	Jor	Ed		Arc	254-266-5456	Carlsbad, NM 88220	402 E Wood Ave	NTG Environmental	Ethan Sessums	
(joe		uishment of sample st of samples and a applied to each pr					C70717111	1/10/0002	Date	21	No N/A	No N/A	No	Temp Blank:	21104277	Jordan Tyner	Eddy Co. NM	236740	Arcturus 18-8		8220	ſe	ental		
E	Received by: (Signature)	es constitutes a shall not assume oject and a char		_	_				Time	Corrected Temperature:	Temperature Reading:	Correction Eactor:	Thermometer 10:	Yes No 1		TA	Du	2							
	: (Signature	valid purchase) any responsib ge of \$5 for eac					;	×	Soil	nperature:	Teading: \	for:	Ŕ	Wet-lee:	lab, if received by 4:30pm	T starts the da	Due Date:	 Routine 	Turn A	Email: V	0	A	0	B	
		order from clie illty for any lo: h sample subr			_			2	Water Co					Yes No	ad by 4:30pm	ly received by		Rush	Turn Around	Wesley.Mathews@dvn.com	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	
	-	nt company t sses or expen nitted to Xenc		╢	-			-	Grab/ # of Comp Cont			P	arar	nete	1	the	<u> </u>	Code	,	hews@dvr			ne:	nt)	
	Date/Time	o Xenco, its ses Incurred to, but not a						×			в	TE)	(802	:1B						1.com	Artesia	6488 S	Devon Energy	Wesley	
	me	affiliates and by the cilen halyzed. The		+	+	$\left \right $	+-+	× ×	TP	4 80*			RO + ide 4	DRC 500) + N	IRO) 				Artesia, NM 88210	even Rive	Energy	Wesley Mattews	
4 Ν	Relinquished by: (Signature)	d subcontractors. It assigns standar It if such losses are due to circumsta se terms will be enforced unless prev																	ANALYSIS REQUEST		0	6488 Seven Rivers Highway			
	ure) Received by: (Signature)	assigns standard terms and conditions due to circumstances beyond the control orced unless previously negotiated.											OLD						QUEST	Deliverables: EDD 🔟 ADa		State of Project:	Program: UST/PST PRP Brownfields RRC	Work Order	
	ture) Date/Time								Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn			H3PO4: Hb	H2SO4: H2 NaOH: Na	HCL: HC HNO3: HN	Cool: Cool MeOH: Me	None: NO DI Water: H ₂ O	Preservative Codes	ADaPT LI Other:	Ē		wnfields RRC Duperfund	Work Order Comments	Page 3 of 3

Received by OCD: 5/18/2023 10:53:11 AM

1/23/2023

Work Order No:

Page 96 of 234

NTG

Chain of Custody

13

Login Sample Receipt Checklist

Client: NT Global

Login Number: 3839 List Number: 1 Creator: Clifton, Cloe

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	

Job Number: 890-3839-1 SDG Number: 236740

List Source: Eurofins Carlsbad

14

Job Number: 890-3839-1 SDG Number: 236740

List Source: Eurofins Midland

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

Login Sample Receipt Checklist

Client: NT Global

<6mm (1/4").

Login Number: 3839 List Number: 2 Creator: Rodriguez, Leticia

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	N/A	



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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg,	/kg	Analyze	d 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 5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	137	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.5	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	143 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-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	Analyze	d 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 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	132	% 49.1-14	8						

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
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	Analyze	d 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 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Work Order No:

Other:	ds RRC Uperfund	iments	Page 1 of Z	H231322
			Page	23 of 24

Work Order Comments

5 V	1 10 the Manaka Wildaber 3-22-23 14102	Relinquished by: (Signature) / Received by: (Signature) / Date/Time Relinquished by: (Signature)		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 at	Additional Comments: (Email Esessions@nt-fobal.com for PO#.)	VDS-2 (5') 1 1 1 1 1 1 1 1 1	JDS-2 (4)	VDS-2 (7)	V1)5-2 (2')		ND3-1 (4')	WDS-1 (3)	VD5-1 (2') 1' 1 1 1 1 1 1 1	VDS-1 (1) \$722/25 × 6mb 1 × × ×	Sample Identification Date Time Soil Water Comp Cont P		15M) C P TEX	Yes No Thermometer ID: 1/3	DRC	lab, if received by 4:30pm	TAT starts the day received by the	Color Co, NM Due Date:	Project Number: 23,6740 Routine Rush Code	Name: Arcturus K feet Con 8H / Turn Around	254-266-5456 Email: Wesley.Mathews@dvn.com	e ZIP: Carlsbad, NM 88220 City, State ZIP: Artesia, NM 88210	402 E Wood Ave Address: 6488 Seven Rivers Highway	NTG Environmental Company Name: Devon Energy	
		ished by: (Signature) Received by: (Signature)	s are due to circumstances beyond the control e enforced unless previously negotiated.	rs. It assigns standard terms and conditions	0																				ANALYSIS REQUEST	Deliverables: EDD	Reporting:Level II Level III	State of Project:	Program: UST/PST PRP	
		(Signature) Date/Time													Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	I Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO ₄ : NABIS	H ₃ PO ₄ : HP	H ₂ S0 ₄ : H ₂ NaOH: Na	HCL: HC HNO3: HN	Cool: Cool MeOH: Me	None: NO DI Water: H ₂ O	Preservative Codes	ADaPT U Other:	LPST/UST L	2	Brownfields RRC uperfund	

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eceived by OCD: 5/18/2023 10:53:11 AM 7 2000		
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le: 254-266-5456 Same: A (C+C-LS) act Number: 236 74 act Location 236 74 pier's Name: 236 74 gived Intact: 236 74 ived Intact: 406 76 gived Intact: Yes N pier Custody Seals: Yes N pier Custody Seal: Ye	402 E Wood Ave Carlsbad, NM 88220	Ethan Sessums NTG Environmental
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Email: Wesley.Mathews@dvn.com Turn Around Pres. Q Routine Rush Code TAT starts the day received by 4:30pm Pres. Code Wet Ice: Yes Pres. Pres. Pactor: Occurre Yes Pres. Factor: Occurre Yes Pres. Factor: Occurre Yes Parameters Factor: Occurre Soil Water Grab/ Comp Parameters Soil Water Grab/ Comp Parameters Parameters X Kab T Parameters Parameters Y Kab T Parameters Parameters Y Kab T Parameters Parameters Y Kab T Parameters Paramete	Address: City, State ZIP	Bill to: (if different) Company Name
Althews@dvn. Althews@dvn. Code Co		ent)
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ANALYSIS REQUEST		
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tive Codes DI Water: H ₂ O MeOH: Me HNO ₃ : HN NaOH: Na OH: Zn c. Acid: SAPC Comments	Level IV	of

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Chain of Custody



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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	24						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	18						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg,	/kg	Analyze	d 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 :	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	131 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.4	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.7	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg,	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg,	′kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 26 (1') (H231471-26)

BTEX 8021B	mg,	′kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 27 (1') (H231471-27)

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.5	% 49.1-14	8						

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 28 (1') (H231471-28)

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.7	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 29 (1') (H231471-29)

BTEX 8021B	mg/	/kg	Analyze	d 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 BTEX	<0.300	0.300	03/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.5	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 30 (1') (H231471-30)

BTEX 8021B	mg/	/kg	Analyze	d 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 BTEX	<0.300	0.300	03/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 31 (1') (H231471-31)

BTEX 8021B	mg,	/kg	Analyze	d 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 BTEX	<0.300	0.300	03/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	63.5	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 32 (1') (H231471-32)

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.2	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 33 (1') (H231471-33)

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 34 (1') (H231471-34)

BTEX 8021B	mg/	kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	131 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 35 (1') (H231471-35)

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.0	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 36 (1') (H231471-36)

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.6	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 37 (1') (H231471-37)

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	70.6	% 49.1-14	8						

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 38 (1') (H231471-38)

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.3	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 39 (1') (H231471-39)

BTEX 8021B	mg/	kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	54.7	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 40 (1') (H231471-40)

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.5	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 41 (1') (H231471-41)

BTEX 8021B	mg,	/kg	Analyze	d 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 5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	70.8	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 42 (1') (H231471-42)

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	70.6	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 43 (1') (H231471-43)

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.0	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 1 (0-1') (H231471-44)

BTEX 8021B	mg	/kg	Analyze	d 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 5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.7	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 2 (0-1') (H231471-45)

BTEX 8021B	mg	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	132	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 3 (0-1') (H231471-46)

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 4 (1-2') (H231471-47)

BTEX 8021B	mg	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 5 (0-1') (H231471-48)

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 6 (0-1') (H231471-49)

BTEX 8021B	mg	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.0	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 7 (0-2') (H231471-50)

BTEX 8021B	mg	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.7	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 8 (0-2') (H231471-51)

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 9 (0-2') (H231471-52)

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 10 (0-2') (H231471-53)

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 11 (0-2') (H231471-54)

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 12 (0-2') (H231471-55)

BTEX 8021B	mg,	′kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 13 (0-1') (H231471-56)

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.8	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 14 (0-1') (H231471-57)

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.1	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 15 (0-1') (H231471-58)

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	128 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 16 (0-1') (H231471-59)

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 17 (0-1') (H231471-60)

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 18 (0-1') (H231471-61)

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 19 (0-1') (H231471-62)

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/30/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 20 (0-1') (H231471-63)

BTEX 8021B	mg	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Reç	eived by G	CD: 5	/18/2	023	10:	53:	$\frac{1}{1}$	A_{M}	0	T	T	20	10	-	_			-	_														Page 188
		Relinguished by: (Signature)	otice: Signature of this docume	Additional Comments:	US-10(1)	CS-9 (1')	CS-8 (1')	CS-7 (1')	CS-6 (1')	CS-5 (1')	CS-4 (1')	CS-3 (1')	US-2 (1')	CS-1 (1')	sample identification	Comple Identifi	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	SAMPLE RECEIPT	PO #	Sampler's Name:	Project Location	Project Number:	Project Name:	Phone: 254	ate 2IP:		INCINC.		Project Manager: Eth	
		able only for the cost or ge of \$85.00 will be ap	ent and relinquis	Comments:											ition				Yes N	Yes	Temp	2	Kel	Edo		Arcturus	254-266-5456	Carlsbad, NM 88220	TUE L VYUUU AVE			Ethan Sessums	NTG
	the	of samples and s pplied to each pro	hment of sample		3/29/2023	3/29/2023	3/29/2023	3/29/2023	3/29/2023	3/29/2023	3/29/2023	3/29/2023	3/29/2023	3/29/2023	Date		1	NO NIA	NO (N/A)	Yes No	Temp Blank:	2110427	Kellan Smith	Eddy Co, NM	236740	Arcturus 18 Fed Com 8H		8220	le l	ental	onto		F 100 /
	alved by.	piect and a char	s constitutes a												Time		Corrected Temperature:	Temperature Reading:	Correction Factor:	Thermometer ID:	Yes No			0		8H							
		e any responsibling of \$5 for each	valid purchase		×	×	×	×	×	×	×	×	×	×	Soil		emperature:	Reading:	actor:	er ID:	Wet Ice:	lab, if received by 4:30pm	TAT starts the o	Due Date:	Routine	Turn	Email:						
		ility for any loss h sample submi	order from clien		Comp	Comp	Comp	Comp	Comp	Comp	Comp	Comp	Comp	Comp	Water Comp	Grah	-121	-12.0	-0.60	13	, Yes No	ved by 4:30pm	dav received hv	181	Rush	Turn Around	Email: Wesley.Mathews@dvn.com	City, State ZIP	Address:	Company Name:	Bill to: (if different)		
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	(Signature)	in assigns standard terms and conditions of the to circumstances beyond the control forced unless previously negotiated.			-	_	-	-		-	+	+	+	-										+		VCIC DE							
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X	Ine				1	T	T	T			\uparrow	\uparrow	\dagger			NaOH	Zn Ac				H ₂ S0 ₄ : H ₂	HCL: HC	Cool: Cool	None: NO			ADaPT	PST/UST		Brownfields RRC	er Comr	_	No:
Revised Da	w														ample	+Ascorbi	Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO4: NABIS	4: HP	: H ₂	Б	Cool	NO	Preserv		Other	RRP	I	s RR	nents	Page	Ha
Revised Date 05012020 Rev. 2020 1	Date/Time														Sample Comments	NaOH+Ascorbic Acid: SAPC	10H: Zn	03	SI		NaOH: Na	HNO3: HN	MeOH: Me	DI W	Preservative Codes							1 of	3/2
Vev 2020 1	me 3122													-	nts	APC		la la contra contra En contra cont	Politik grad Olar no opa		H: Na	HN	H: Me	DI Water: H ₂ O	odes				-Active	uperfund		_7_	KT+
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- Released to Imaging: 10/12/2023 10:33:51 AM

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Kece		ARE	f service f Xenco.	Additional Comments:	(2) 02-20	CS-19 (2)	CS-18 (2')	CS-17 (2')		CS-15 (1')	CS-14 (1')	CS-13 (1')		CS-11 (1')	Sample Identification		Total Containers:	Sample Custody Seals:	Received Intact:	SAMPLE RECEIPT	PO #	Sampler's Name:	Project Location	Project Number:	Project Name:	Phone: 254-2	ate ZIP:		y Name:		
	A North	ure)	and relinquishment of samp for the cost of samples and .00 will be applied to each p	nments:	3/29/2023	3/29/2023	3/29/2023	3/29/2023	3/29/2023	3/29/2023	3/29/2023	3/29/2023	3/29/2023	3/29/2023	in Date		Yes No NA	No	Yes No	Temp Blank:	2110427	Kellan Smith	Eddy Co, NM	236740	Arcturus 18 Fed Com	254-266-5456	Carlsbad, NM 88220	402 E Wood Ave	NTG Environmental	Ethan Sessums	ENVIRONMENTAL
		Received by: (Signature)	ynwwe or unis occurrent and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. If 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 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 enfit.		×	×	x	×	x	×	×	×	×	×	Time Soil	Corrected Temperature:	Temperature Reading:	Correction Factor:	nome	Yes No Wet Ice:	lab, if r	TAT starts	Due Date:	Routine	H8	En					
		ure)	ase order from client componsibility for any losses or events of the sample submitted to be sample submitted to be the sample submitted to be the sample sub		Comp	Comp	Comp	Comp	Comp	Comp	Comp	Comp	Comp		Water Comp	e: -12,6c	-12.02	1	1	Yes No	lab, if received by 4:30pm	he day r	HShe	Rush	Turn Around	Email: Wesley.Mathews@dvn.com	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	
		Date/Time	n client company to Xenco, its affiliates and subcontractors. In the second sec		1 x x x	1 x x x	×	×	×	× ×	×	×	×	x x	# of TPH	801	5M (TEX	8021 D + E	DRO		80)		Pres.		@dvn.com	Artesia, NM 88210	6488 Seven F	Devon Energy	Wesley Mathews	
0	2 Jula	Relinquished by: (8fgnature)	nd subcontractors. It assign ant if such losses are due to lese terms will be enforced u			-		× ;	× ;	× :	×	×	×	×			Ch	lorid	e 45	00	£						8210	6488 Seven Rivers Highway	V	ews	
	F	(8fgnature)	t assigns standard terms and conditions due to circumstances beyond the control orced unless previously negotiated.																							Deliver	Reporti	State c	Droore		
	Milliand Call	Received by: (Signature	onditions he control tted.	-														HOLD	0							Deliverables: EDD ADal	Reporting:Level II Level III DST/UST	State of Project:		Work Orde	Work Order No:
Revised Date 05012020 Rev. 2020.1	3-3	b// Date/Time													Sample Comments	Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: 0	Na22203: NASU3	NaHSO4: NABIS	H ₃ PO ₄ : HP	H ₂ S0 ₄ : H ₂ NaOH: Na	HCL: HC HNO3: HN	Cool: Cool MeOH: Me	None: NO DI Water: H ₂ O	Preservative Codes		Г	1 PDDD	wntields LRRC Luperfund		Page 2 of	o: H2319

Page 67 of 72

Chain of Custody

189 of 234 P

1		ved	a la	Relinquished by: (Signature)	In 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 enformed by the client if such losses are	Votice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors.	Additional Comments:		CS-30 (1)		CS-27 (1')	CS-26 (1')	CS-25 (2')	CS-24 (2')	CS-23 (2')		00 00 000	00 04 /01	Sample Identification	I otal Containers:	Seals:			SAMPLE RECEIPT		Sampler's Name:	Project Location	Project Number:		254-266-5456	ale LIF.				Project Manager: Ethan Sessums	
		AN CO	4800		I be applied to each pro	inquishment of sample cost of samples and s	nts:	SIZBIZUZ3	3/29/2023	3/29/2023	3/29/2023	3/29/2023	3/29/2023	3/29/2023	3/29/2023	3/29/2023	3/29/2023	Date		1	Yes No NA	Yes No NIA	Yes No	Temp Blank:	2110427	Kellan Smith	Eddy Co, NM	236740	Arcturus 18 Fed Com 8H	456	07788 MIN		od Ave	onmental	sums	ENTAL
	1.1.1			Received by: (Signature)	oject and a charge of \$5 for e	s constitutes a valid purchas		×	×	×	×	×	×	x	×	×	×	lime Soll	1	Corrected Temperature:	Temperature Reading:	Correction Factor:	nomete	Yes No Wet Ice:	lab, if rec	TAT starts th	Due Date:	Routine		Email:						
			10.	re)	ach sample submitted	se order from client con		Comp	Comp	Comp	Comp	Comp	Comp	Comp	Comp	Comp	Comp	Water Comp		1	30'21-	-0.62	1/3	Mes No	lab, if received by 4:30pm	he day received by the	787	Rush	Turn Around	iil: Wesley.Mathews@dvn.com	City, State ZIP:	Address:		Company Name	Bill to: (if different)	
			Date	Date	to Xenco, but r	mpany to Xenco		1	-	-	1	-	-	-	-	1	1	Cont	# of				ram					Pres. Code		ws@dvn.cc				•		Chain of Custody
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Revised Date		Se 3.																Sample	aOH+Ascorbi	Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO4: NABIS	H ₃ PO ₄ : HP	H ₂ S0 ₄ : H ₂	HCL: HC	Cool: Cool	None: NO	Preserv					Brownfields RRC	Work Order Comments	Page	
Revised Date 05012020 Rev. 2020.1		5033 12:	Date/Time															Sample Comments	NaOH+Ascorbic Acid: SAPC	OH: Zn	03	S		NaOH: Na	HNO3: HN	MeOH: Me	DI Water: H ₂ O	Preservative Codes					C Uperfund		3_of_7_	31471
		8									_																0			[_			_ ال	Page 68 of 72

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Page 69 of 72

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Chain of Custody

		Reiniquished by: Highatur	Relinquiched by (Circuit	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 incurred by the client incured by the client incurred b	Votice: Signature of this document and	Additional Comments:	SW-7 (0-2')	SW-6 (0-1')		SW-4 (1-2')		SW-2 (0-1')	SW-1 (0-1')	CS-43 (1)			Sample Identification	Comple Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	SAMPLE RECEIPT	PO #.	Sampler's Name:	Project Location	Project Number:		Z34-200-3456		City, State ZIP: Carlsba	Address: 402 E V	Company Name: NTG Er	Project Manager: Ethan S	ENVIRONMENTA
	Jus	e)	and approve to each b	the cost of samples and will be applied to each p	relinguishment of samo	nents:	3/29/2023	3/29/2023	3/29/2023	3/29/2023	3/29/2023	3/29/2023	3/29/2023	3/29/2023	3/29/2023	3/29/2023	Date			No	0	Yes No	Temp Blank:	2110427	Kellan Smith	Eddy Co, NM	236740	Arcturus 18 Fed Com 8H	-5456	FIED	Carlsbad, NM 88220	402 E Wood Ave	NTG Environmental	Ethan Sessums	MENTAL
	h	Received	infect and a c	shall not assurption of the shall not assurption of the second se													Time		Corrected	Temperat	Correction Factor:		Yes No					n 8H							
	5	by: (Signature	narge of \$5 for eac	s a valid purchase			×	×	×	×	×	×	×	×	×	×	Soil	· · · · · · · · · · · · · · · · · · ·	Corrected Temperature:	Temperature Reading:	1 Factor:	eter ID:	Wet Ice:	lab, if rece	TAT starts the	Due Date:	Routine	Turr	Email:						
		(F	ch sample submitt	vility for any losse			Comp	Comp	Comp	Comp	Comp	Comp	Comp	Comp	Comp	Comp	Water Comp	-10.100		-1202	-0.60	201	Yes No	lab, if received by 4:30pm	day received by	484	Rush	Turn Around	Wesley.Mathews@dvn.com	UILY, SIGIE LIP	City State 71	Address:	Company Name	Bill to: (if different)	
			ted to Xenco,	company to) s or expenses			1p 1	1p 1	np 1	np 1	np 1	np 1	np 1	np 1	np 1	np 1	np Cont		1		Par		eters		5		Pres.		hews@dvi				me:	ant)	
		Date/Tim	but not and	Kenco, its a s incurred t			×	×	×	×	×	×	×	×	×	×				вте	EX 80	0211	в						n.com	Artes	0000	6488	Devo	Week	
		le	alyzed. The	iffiliates an by the clien		$\ $	+	+	+	×	+	+	+	-+	+	×	TF	PH 80			GRO			MR	0)	-				Artesia, NM 88210		Seven Ri	Devon Energy	by Mathe	
0	2 Aller	Relinquished by: (Signature)	ese terms will be enforced unless previously negotiated.	assigns standard due to circumstanc																								ANALYSIS REQUEST		3210	nignway				
	Multip	Received by:	y negotiated.	terms and conditions																				2				IEST	Deliverables: EDD	Reporting:Level II Level III			Work C		
	eer ee eere honder																Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	I Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO4: NABIS	H ₃ PO ₄ : HP	H ₂ S0 ₄ : H ₂ NaOH: Na	HCL: HC HNO3: HN	Cool: Cool MeOH: Me	None: NO DI Water: H ₂ O	Preservative Codes	:	Other:	PST/UST TRRP Level IV		Brownfields RRC uperfund	8.8	Page 5_ of 7_	

Chain of Custody

- Released to Imaging: 10/12/2023 10:33:51 AM

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	ENVIRONMENTAL Ethan Sessums					Page	6 of 7
	Ethan Sessums	*	Bill to: (if different)	Wesley Mathews	athews	Work Order Comments	
Company Name: N	NTG Environmental		Company Name:	Devon Energy	ergy	Browneights	
Address: 4	402 E Wood Ave		Address:	6488 Sev	6488 Seven Rivers Highway	State of Project:	C Uperfund
City, State ZIP: C	Carlsbad, NM 88220		City. State ZIP:	Artacia NM 88210	M 88310		
Phone: 2	254-266-5456	Email:		advn.com	M 002 10		
Project Name:	Arcturus 18 Fed Com 8H						Culci.
Project Number:	236740	Routine	Rush	Pres.			Preservative Codes
Project Location	Eddy Co, NM	Due Date:	484			None: NO	DI Water: H ₂ O
Sampler's Name:	Kellan Smith	TAT starts th	e dav received hv the	20)		Cool: Cool	MeOH: Me
PO #	2110427	lab, if rec	lab, if received by 4:30pm			HCL: HC	HNO3: HN
SAMPLE RECEIPT	Temp Blank:	Yes No Wet Ice:	Yes No		00	H ₂ S0 ₄ : H ₂	NaOH: Na
Received Intact:	Yes No	nomete		8021	e 45		- 1
Sample Custody Seals:		Correction Factor:		TEX	nlorid	H Na ₂ S ₂ O ₂ : NABIS	00
Total Containers:	T	Corrected Temperature	1/2/0		0	Zn Acetate+NaOH: Zn	aOH: Zn
Sample Identification	cation Date	Time Soil	Grab/ Comp	Cont TPH I		NaOH+Asco Samp	Sample Comments
	3/29/2023	×		1 x x	×		
	3/29/2023	×	Comp	×	× ;		
3 SW-10 (0-2')	2') 3/29/2023	×	Comp	×	× :		
	2') 3/29/2023	×	Comp	+	×		
	2") 3/29/2023	×	Comp	+	×		
	3/29/2023	×	Comp	1 x x	×		
) 3/29/2023	×	Comp	-	×		
) 3/29/2023	×	Comp	1 x x	×		
) 3/29/2023	×	Comp	1 x x	×		
SW-17 (0-1')) 3/29/2023	×	Comp	1 x x	×		
Additional	Additional Comments:						
D: 5/18/2 of service. Signature of this docu of Service. Xenco will be liable of Xenco. A minimum charge	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors 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 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	ples constitutes a valid purchas d shall not assume any respons project and a charge of \$5 for e.	e order from client compa ibility for any losses or ex ach sample submitted to X	ny to Xenco, its affilia penses incurred by th enco, but not analyze	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 neoplated.	rms and conditions s beyond the control slv neootlated.	
Relinquished by: (Signature)	ignature)	Received by: (Signature	re)	Date/Time		Peceived by: (Signature)	Date/Time
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Chain of Custody

Page 193 of 234

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P.3/4/7/ RC uperfund RC uperfund RP Level IV DI Water: H20 MeOH: Me HNO3: HN NaOH: Na BIS SO3 SO3 DI Vator: Zn bic Acid: SAPC bic Acid: SAPC Date/Time 30 - 13 / 1235		-	(e)											Sa	NaOH+,	Zn Acet	Na ₂ S ₂ O	NaHSO	H ₃ PO ₄ :	H ₂ S0 ₄ :	HCL: H	Cool: C	None: I	P					wnfielde	Comm	Ра	0.	
		C v v	Da											mple C	Ascorbic	ate+NaO	3: NaSO3	4: NABIS	ΗP	H ₂	C	00	NO	reservat		Other:	RRP		boc	onte	ge 7	42:	
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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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 11 (2') (H231766-01)

BTEX 8021B	mg	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 12 (2') (H231766-02)

BTEX 8021B	mg/	/kg	Analyze	d 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	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.8	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 13 (2') (H231766-03)

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 14 (2') (H231766-04)

BTEX 8021B	mg	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 15 (2') (H231766-05)

BTEX 8021B	mg,	′kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 16 (2') (H231766-06)

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.4	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 17 (3') (H231766-07)

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.1	% 49.1-14	8						

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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 18 (3') (H231766-08)

BTEX 8021B	mg,	′kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.8	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 19 (3') (H231766-09)

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 20 (3') (H231766-10)

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.0	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 26 (2') (H231766-11)

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.6	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 27 (2') (H231766-12)

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.1	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 28 (2') (H231766-13)

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.8	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 29 (2') (H231766-14)

BTEX 8021B	mg/	kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.3	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 30 (2') (H231766-15)

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.8	% 49.1-14	8						

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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 31 (2') (H231766-16)

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 32 (2') (H231766-17)

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 33 (2') (H231766-18)

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.4	% 49.1-14	8						

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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 34 (2') (H231766-19)

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.4	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

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 9	% 71.5-13	4						
Chloride, SM4500Cl-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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 36 (2') (H231766-21)

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-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 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	124 9	% 49.1-14	8						

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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 37 (2') (H231766-22)

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.0	% 49.1-14	8						

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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 38 (2') (H231766-23)

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.5	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 39 (2') (H231766-24)

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.2	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 40 (2') (H231766-25)

BTEX 8021B	mg	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.0	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 41 (2') (H231766-26)

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.3	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 42 (2') (H231766-27)

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.1	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 43 (2') (H231766-28)

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.0	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 5A (0-2') (H231766-29)

BTEX 8021B	mg/	′kg	Analyze	d 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	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.0	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 8A (0-2') (H231766-30)

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.4	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 9A (0-2') (H231766-31)

BTEX 8021B	mg/	kg	Analyze	d 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	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.6	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 21 (1-2') (H231766-32)

BTEX 8021B	mg/	/kg	Analyze	d 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	100 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.5	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/12/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	236740	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 22 (2-3') (H231766-33)

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.2	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Cartery, Name, Marker,				0						
Work Order Comments Program: UST/PST 'Rp ownfields 'Rc State of Project: Reporting Level II _evel III _StrUST 'Rp ownfields 'Rc Sterfund MALYSIS RECUEST Preservative Codes None: NO DI Water: H Cool: Cool MeOH: Me MALYSIS RECUEST Preservative Codes None: NO DI Water: H Cool: Cool MeOH: Me MALYSIS RECUEST Preservative Codes None: NO DI Water: H None: NO DI Water: H MALYSIS RECUEST Preservative Codes None: NO DI Water: H None: NO DI Water: H MALYSIS RECUEST Preservative Codes None: No DI Water: H None: No DI Water: H MALYSIS NECLESS Nacesa			4 10	1100	-10.2	Y	marin n			
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Chain of Custody

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	Ethan Sessums		Bill to: (if different)	Wesley Mathews	/athews		- aye
Name:	NTG Environmental		Company Name:	Devon Energy	nernv	n 🔝	18
Address: 402 E	402 E Wood Ave		Address:	6488 Sev	6488 Seven Rivers Hindway	ST	ownfields RC
ate ZIP:	Carlsbad, NM 88220		City, State ZIP:	Artesia. NM 88210	IM RR210	Reporting level II Devel III	
Phone: 254-26	254-266-5456	Email:		rs@dvn.com			
Project Name:	Arcturus 18 Fed Com 8H		n Arnund a	6-4/17/23			
ä	236740	Routin	P Rush	Pres.	ANALYSIS REQUEST	EQUEST	Preservative Codes
Project Location	Eddy Co NM			Code			None: NO
Sampler's Name:	Kellan Smith	Due Dale.	Sum O)			Cool: Cool
PO#	2110427	IAI starts the lab, if rec	TAT starts the day received by the lab, if received by 4:30pm	MRC			HCL: HC
SAMPLE RECEIPT		Yes No Wet Ice.					H ₂ S0 ₄ : H ₂
Received Intact:			ON SAK	ame 021B + DF	4500		H ₃ PO ₄ : HP
Cooler Custody Seals:	MIA	Correction Factor	0/0	X 80			NaHSO4: NABIS
Sample Custody Seals:	NO NIA	Temperature Reading:	10.60	вте			
Total Containers:	(Corrected Temperature:	-1.20	30151			Zn Acetate+NaOH: Zn
Sample Identification	Date	Time Soil	Water Grab/ Comp	Cont TPH			Sample Comments
SW-9A (0-2')	4/12/2023	×	Comp	1 x x	×		
SW-21 (1-2')	4/12/2023	×	Comp	-	×		t
SVV-22 (2-3')	4/12/2023	×	Comp	1 x x	×		\dagger
Additional Comments:	iments:						
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It ass 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 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 enforce	d relinquishment of samples con r the cost of samples and shall n 0 will be applied to each project a	stitutes a valid purchase or ot assume any responsibili and a charge of \$5 for each	der from client compan ly for any losses or exp sample submitted to X.	y to Xenco, its affiliates a enses incurred by the cli enco, but not analyzed. T	nd subcontractors. It assigns standard terms and conditions ent if such losses are due to circumstances beyond the control hese terms will be enforced unless previously negotiated.	and conditions yound the control negotiated.	
Relinguished by (Signature)	Ire) Re	Received by: (Signature)	() (j	Date/Time	Relinquished by: (Signature)	ure) Received by: (Signature)	ure)
m	MIT AND	WANN DAU	Mall .	4-13-23 11	20/2		
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Chain of Custody

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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

CONDITIONS

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

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	218144
	Action Type:
	[C-141] Release Corrective Action (C-141)

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

CONDITIONS

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Action 218144