

Incident ID	nAPP2232132392
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: Rebecca Haskell Title: Senior Project Manager
Signature: Rebecca Haskell Date: 1/6/23
email: bhaskel@ntglobal.com Telephone: 432-766-1918

OCD Only

Received by: Jocelyn Harimon Date: 01/06/2023

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

Signature: Robert Hamlet Date: 5/8/2023

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

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Release Notification

Responsible Party

Responsible Party: Earthstone Operating, LLC	OGRID: 331165
Contact Name: Chris Martin	Contact Telephone: 432-253-9998 Ext. 2653
Contact email: cmartin@earthstoneenergy.com	Incident # (assigned by OCD) nAPP2232132392
Contact mailing address: 600 N. Marienfeld, Suite 1000, Midland, TX 79701	

Location of Release Source

Latitude 32.296607 Longitude -104.310615
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Asteroid 20 29 Federal Com WCA #1H	Site Type Production Pad
Date Release Discovered November 9, 2022	API# (if applicable) 30-015-45876

Unit Letter	Section	Township	Range	County
B	20	23S	26E	Eddy

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): 6	Volume Recovered (bbls): 5
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: The release was due to a leaking connection on the bottom of the horizontal separator. A vacuum truck was called to recover free standing fluids. The leaking connection on the horizontal separator was repaired.

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

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Rebecca Haskell</u>	Title: <u>Senior Project Manager</u>
Signature: <u>Rebecca Haskell</u>	Date: <u>11/17/22</u>
email: <u>bhaskell@ntglobal.com</u>	Telephone: <u>432-766-1918</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

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Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

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District RP	
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Application ID	

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Printed Name: Rebecca Haskell Title: Senior Project ManagerSignature: Rebecca HaskellDate: 1/6/2023email: bhaskell@ntglobal.comTelephone: 432-766-1918**OCD Only**Received by: Jocelyn Harimon Date: 01/06/2023

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Remediation Plan

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

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- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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Printed Name: Rebecca Haskell Title: Senior Project Manager
Signature: Rebecca Haskell Date: 1/6/23
email: bhaskel@ntglobal.com Telephone: 432-766-1918

OCD Only

Received by: Jocelyn Harimon Date: 01/06/2023

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

Signature: _____ Date: _____

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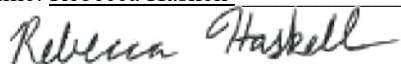
Closure

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

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

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

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

Printed Name: Rebecca Haskell Title: Senior Project Manager
Signature:  Date: 1/6/23
email: bhaskell@ntglobal.com Telephone: 432-766-1918

OCD Only

Received by: Jocelyn Harimon Date: 01/06/2023

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



701 Tradewinds Blvd
Midland, Texas 79707
Tel. 432-766-1918
www.ntgenvironmental.com

January 6, 2023

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

**Re: Site Characterization and Closure/Deferral Request
Asteroid 20 29 Federal Com WCA #1H
Earthstone Operating, LLC
Site Location: Unit A, S20, T23S, R26E
(Lat 32.296607°, Long -104.310615°)
Eddy County, New Mexico
Incident ID: nAPP2232132392**

Mr. Bratcher:

On behalf of Earthstone Operating, LLC (Earthstone), New Tech Global Environmental, LLC (NTGE) has prepared this Site Characterization and Closure/Deferral Request Report for the NMOCD District 2 Office in Artesia, New Mexico for documentation of site assessment, remedial action activities, and analysis at the Asteroid 20 29 Federal Com WCA #1H (Site). The Site is located within Unit Letter A, Section 20 of Township 23 South and Range 26 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.296607° N latitude and 104.310615° W Longitude. The release occurred on Bureau of Land Management (BLM) property. Figure 1 depicts the site location with respect to the nearest town and Figure 2 shows the topographic map of the site.

Background

Based on the Release Notification C-141 Form, the release occurred on November 9, 2022, the result of a leaking connection on the bottom of the horizontal separator. Approximately 6 barrels (bbls) of produced water were released, of which 5 bbls were recovered. Upon discovery, the well was shut-in, and area secured. The release is shown on Figure 3. The initial C-141 form is attached.

Site Characterization

The site is located within a medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there are no known depth to groundwater sources within a ½-mile radius of the location. No other receptors (water wells, playas, wetlands, waterways, lakebeds or ordinance boundaries) were located within each specific boundary or distance from the Site. The site characterization documentation is attached.

Regulatory Criteria

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

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

Mr. Mike Bratcher
January 6, 2023
Page 2 of 3

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

Remedial Action Activities and Confirmation Sampling

Based on visual observations made during an initial assessment on December 5, 2022, Earthstone proceeded with the remedial actions 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 two (2.0) feet below ground surface (bgs) to three and a half (3.5) ft bgs as shown on Figure 3.

A total of six (6) composite confirmation samples were collected from the excavation base (CS-1 - CS-6) and seven (7) composite confirmation samples were collected from the excavation sidewalls (SW-1 - SW-7) to ensure impacted soil was removed.

The confirmation samples were collected from areas representing no greater than two hundred (200) square ft and analyzed for TPH (EPA method 8015 modified), BTEX (EPA Method 8021B), and chloride (method SM4500Cl-B or 300.0) with samples submitted to Eurofins Laboratory of Midland, Texas. Analytical results indicated that CS-2 exhibited chloride concentrations over the regulatory limit to a maximum depth of three and a half (3.5) ft bgs. Further excavation in the vicinity of C-2 was not feasible due to the proximity to the onsite separators. As such, to complete delineation of the soils at CS-2 a geotechnical hand auger was utilized to collect additional samples up to a maximum depth of four and a half (4.5) ft bgs. Samples were submitted to Cardinal Labs of Hobbs, New Mexico for analysis. Analytical results indicate the TPH impacts were delineated at four (4.0) ft bgs.

Approximately 159 tons of impacted soils were transported offsite for disposal at Lea Land, LLC of Carlsbad, New Mexico for final disposition. Manifests are available upon request. The final excavation extent and confirmation sample locations are shown in Figure 3. Analytical results of the confirmation samples are included in Table 1.

Closing and Deferral Request

Based on the assessment, remediation efforts, and requisite confirmation sampling, the Site is in compliance with NMOCD regulatory standards with the exception of CS-2 @ 2.5' and CS-2 @ 3.5' which exceeded the NMOCD standard for TPH and/or chloride concentrations. Confirmation sample CS-2 was collected between two onsite separators, further remediation of the soil at CS-2 was not feasible without destabilizing the integrity of the equipment. As such, approximately one (1) foot of impacted soil was left in-situ at the site. Earthstone requests closure with a deferral of soils left in-situ above NMOCD standards near CS-2 until time of abandonment or upgrade of equipment allows for accessibility to area. A copy of the final C-141 is attached.

If you have any questions regarding this report or need additional information, please contact us at 432-766-1918

Mr. Mike Bratcher
January 6, 2023
Page 3 of 3

Sincerely,
NTG Environmental



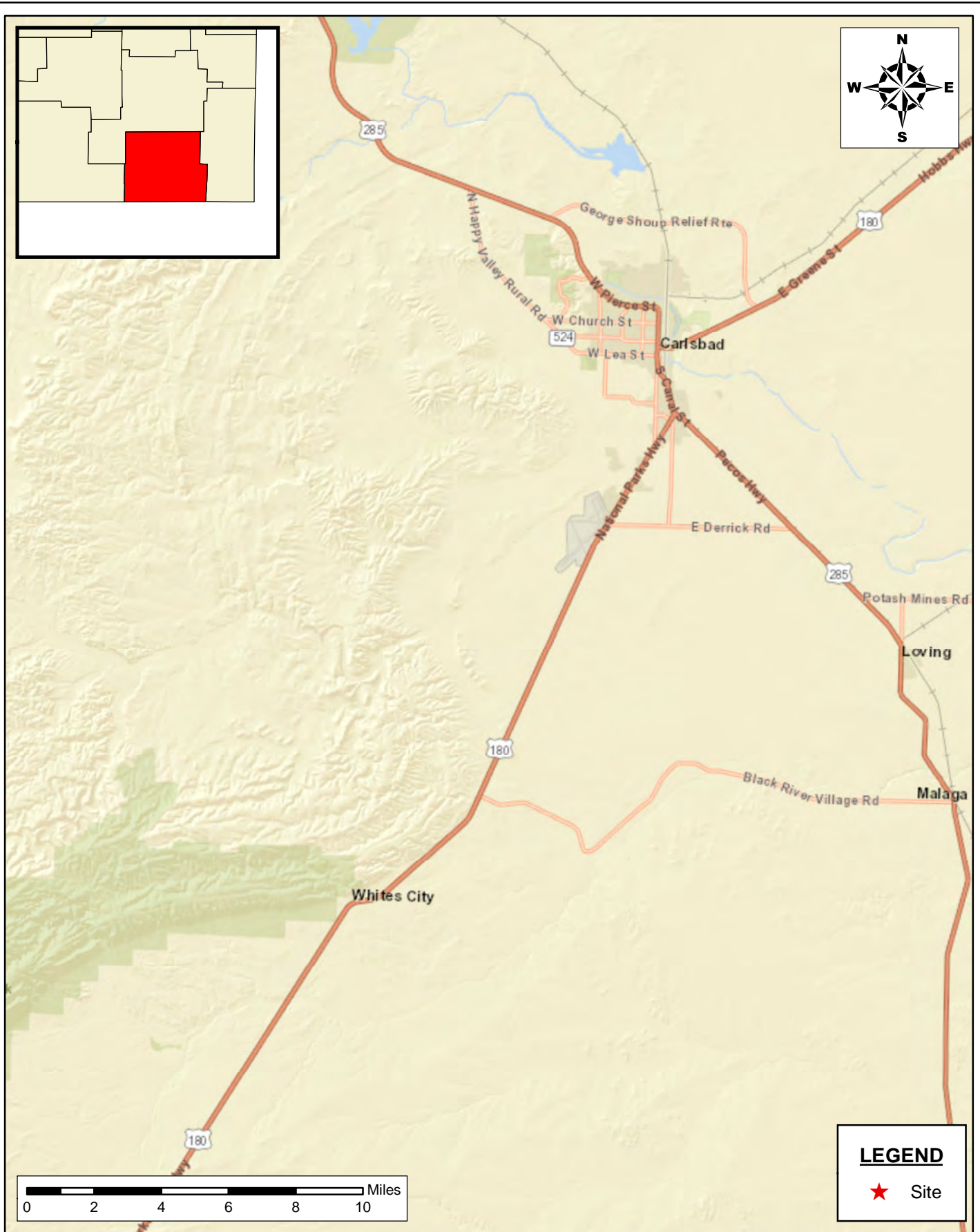
Jeff Kindley, P.G
Senior Project Manager/Geologist

Attachments:

Site Characterization Documentation
Table 1
Figures
Photographic Log
Laboratory Reports and Chain-of-Custody Documents

FIGURES

Document Path: P:\2022 PROJECTS\EARTHSTONE ENERGY\RSC\226535 Asteroid 1H7 - Figures\GIS\Figure_1_area Map_DH.mxd



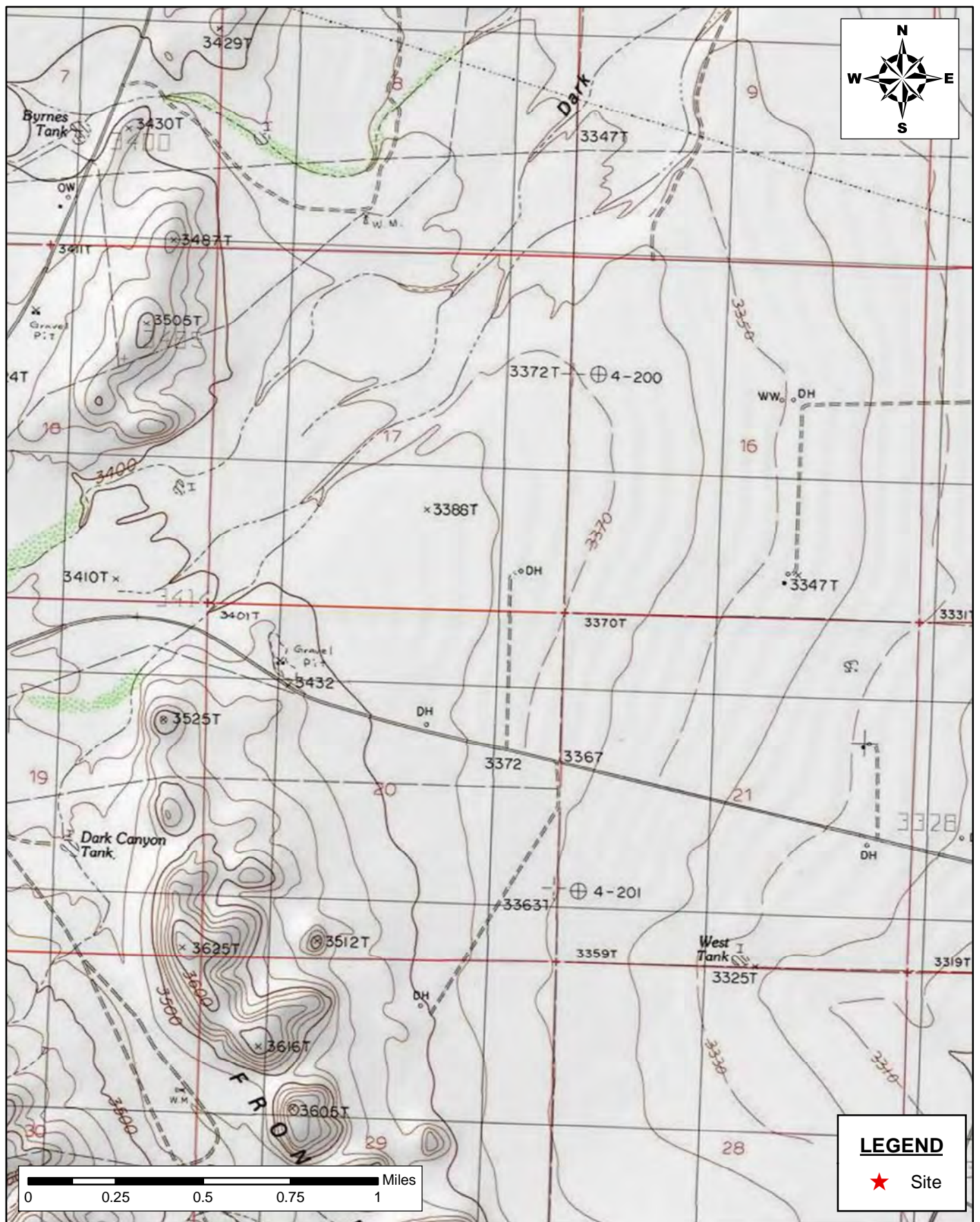
<p>Area Location Map Earthstone Energy Asteroid 20 29 Federal Com WCA 1H Eddy County, New Mexico 32.2966070°, -104.3106150°</p>		
SCALE: As Shown	DATE: 1/3/2023	PROJECT #: 226535

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

<p>NOTES: 1. Base Image: ESRI Maps & Data 2013 2. Map Projection: NAD 1983 UTM Zone 13N</p>
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DRAWING NUMBER:
FIGURE 1
SHEET NUMBER:
1 of 1

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**Site Location Map**

Earthstone Energy
 Asteroid 20 29 Federal Com WCA 1H
 Eddy County, New Mexico
 32.2966070°, -104.3106150°

SCALE: As Shown

DATE: 1/3/2023

PROJECT #: 226535



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 Houston, Texas 77060
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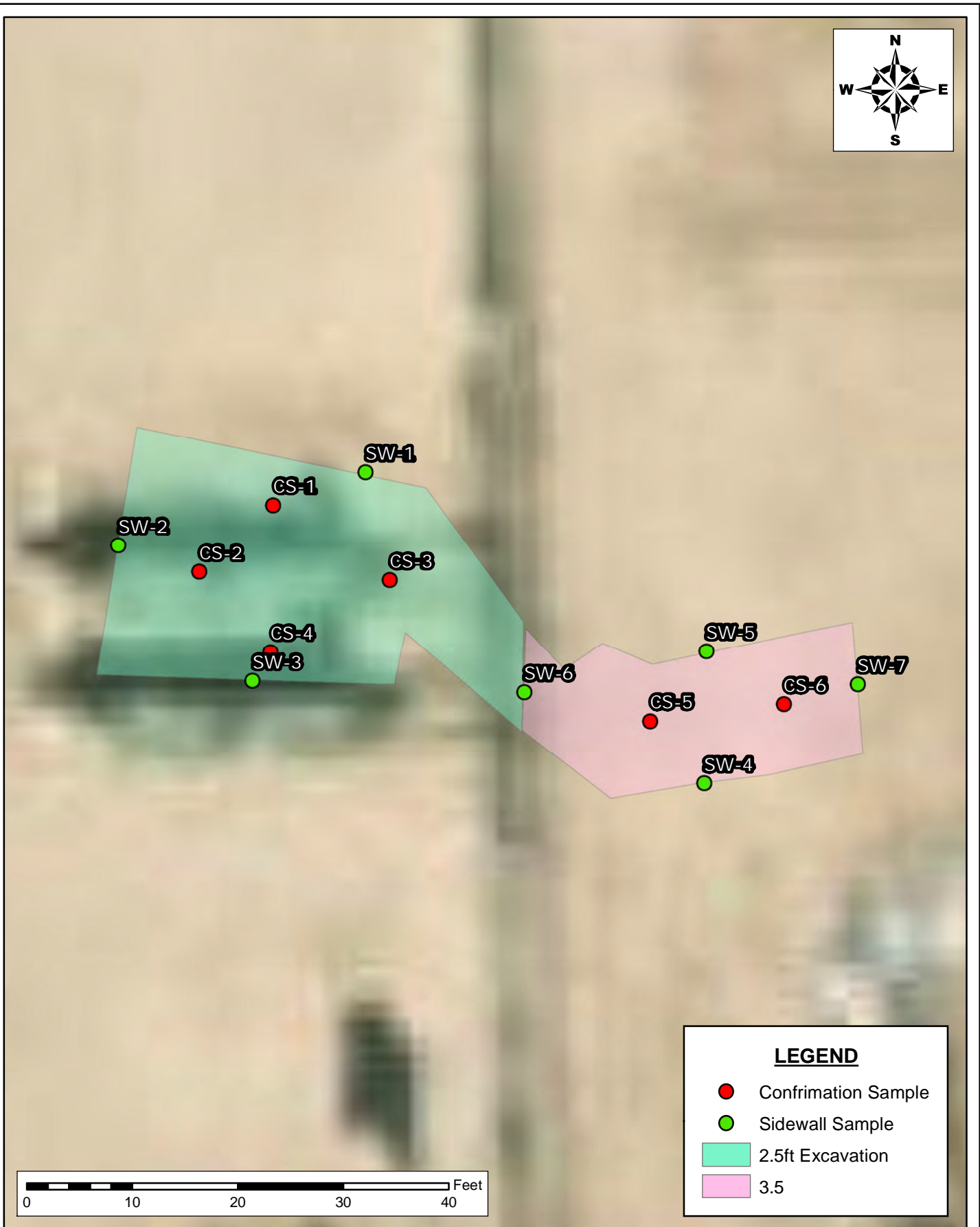
DRAWING NUMBER:

FIGURE 2

SHEET NUMBER:

1 of 1

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**CONFIRMATION SAMPLE MAP
EARTHSTONE OPERATION LLC
ASTEROID 1H
EDDY COUNTY, NEW MEXICO**

SCALE: As Shown Date: 1/3/2023 PROJECT #: 226535



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

NOTES:

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

DRAWING NUMBER:

FIGURE 3

SHEET NUMBER:

1 of 1

TABLE

Table 1
Summary of Soil Analytical Data
Asteroid 20 29 Federal Com WCA #1H
Earthstone Operating, LLC
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6- C-10)	DRO (C10- C28)	GRO + DRO	MRO (C28- C35)	Total GRO/DRO/MRO	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
			Table I Closure Criteria for Soil <50 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg
Confirmation Bottom Hole Samples													
CS-1	12/13/2022	2.5'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	22.7
CS-2	12/13/2022	2.5'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	922	1,150	2,072	<49.9	2,072	875
	12/13/2022	3.5'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	176	176	<49.9	176	22.9
	12/29/2022	4.0'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
	12/29/2022	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-3	12/13/2022	2.5'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	502
	12/13/2022	3.5	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	40.7
CS-4	12/13/2022	2.5'	<0.00198	<0.00198	<0.0198	<0.00396	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	53.8
CS-5	12/13/2022	2.5'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	162
CS-6	12/13/2022	2.5'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	179
Confirmation Sidewall Samples													
SW-1	12/13/2022	0-2.5	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	16.5
SW-2	12/13/2022	0-2.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	95.4
SW-3	12/13/2022	0-2.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	165
SW-4	12/13/2022	0-3.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	5.8
SW-5	12/13/2022	0-3.5	<0.00398	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	14.6
SW-6	12/13/2022	2.5-3.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	<4.98
SW-7	12/13/2022	0-3.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	<5.04

Notes:

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

SP-1 Sample Point Excavated

- TPH analyses by EPA Method SW 8015 Mod.

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

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

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

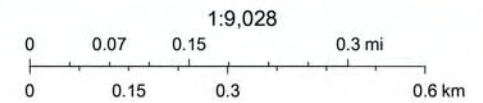
SITE CHARACTERIZATION INFORMATION

Site Characterization



1/6/2023, 8:24:47 AM

- | | | | |
|------------|----------------------------|----------------------------|----------------------|
| OSE PODs | ● Changed Location of Well | Karst Occurrence Potential | PLSS Second Division |
| ● Active | ● Capped | Medium | PLSS First Division |
| ● Inactive | ● Plugged | OSW Water Bodies | |
| ● Pending | ● Unknown | OSE Streams | |



BLM, OCD, New Mexico Tech, OSE GIS, USGS, Esri, HERE, Garmin, IPC, Maxar, NM OSE, BLM

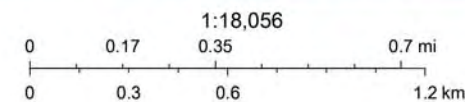
OSE POD Locations Map



1/6/2023, 7:29:31 AM

GIS WATERS PODs

● Active	OSE District Boundary	Both Estates
● Pending	New Mexico State Trust Lands	Site Boundaries
	Subsurface Estate	







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

Web Generated Map
Map is generated by web users.

Asteroid 20 29 Fed Com WCA 1H

KRAST Map

Legend

-  Asteroid 20 29 Federal Com WCA 1H
-  High
-  Low
-  Medium

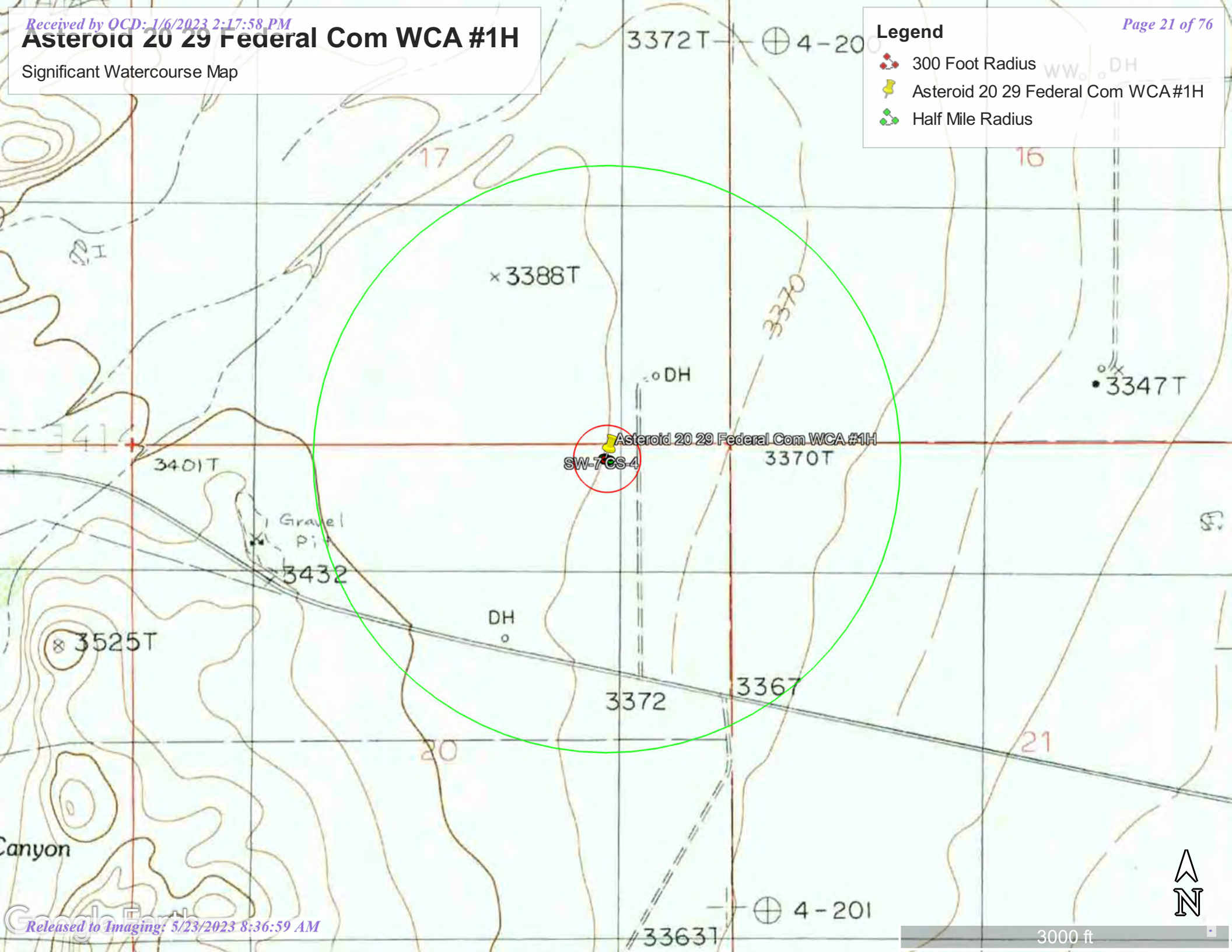
 Asteroid 20 29 Federal Com WCA 1H



2 mi

Significant Watercourse Map

- 300 Foot Radius
- Asteroid 20 29 Federal Com WCA#1H
- Half Mile Radius





January 6, 2023

Wetlands

- | | | | | | |
|---|--------------------------------|---|-----------------------------------|---|----------|
|  | Estuarine and Marine Deepwater |  | Freshwater Emergent Wetland |  | Lake |
|  | Estuarine and Marine Wetland |  | Freshwater Forested/Shrub Wetland |  | Other |
| | |  | Freshwater Pond |  | 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.

National Flood Hazard Layer FIRMMette



104°18'57"W 32°18'3"N



Legend

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

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

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/6/2023 at 8:34 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Released to Imaging: 5/23/2023 8:36:59 AM

Received by OCD: 1/6/2023 2:17:58 PM

Page 23 of 76

PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG

Earthstone Operating, LLC

Photograph No. 1

Facility: Asteroid 20 29 Federal
Com WCA #1H

County: Eddy County, NM

Date: 11/09/2022

Description:

View of release area.

**Photograph No. 2**

Facility: Asteroid 20 29 Federal
Com WCA #1H

County: Eddy County, NM

Date: 11/09/2022

Description:

View of the release area.



PHOTOGRAPHIC LOG

Earthstone Operating, LLC

Photograph No. 3**Facility:** Asteroid 20 29 Federal
Com WCA #1H**County:** Eddy County, NM**Date:** 12/13/2022**Description:**

Excavation of soils to two and a half feet below ground surface.

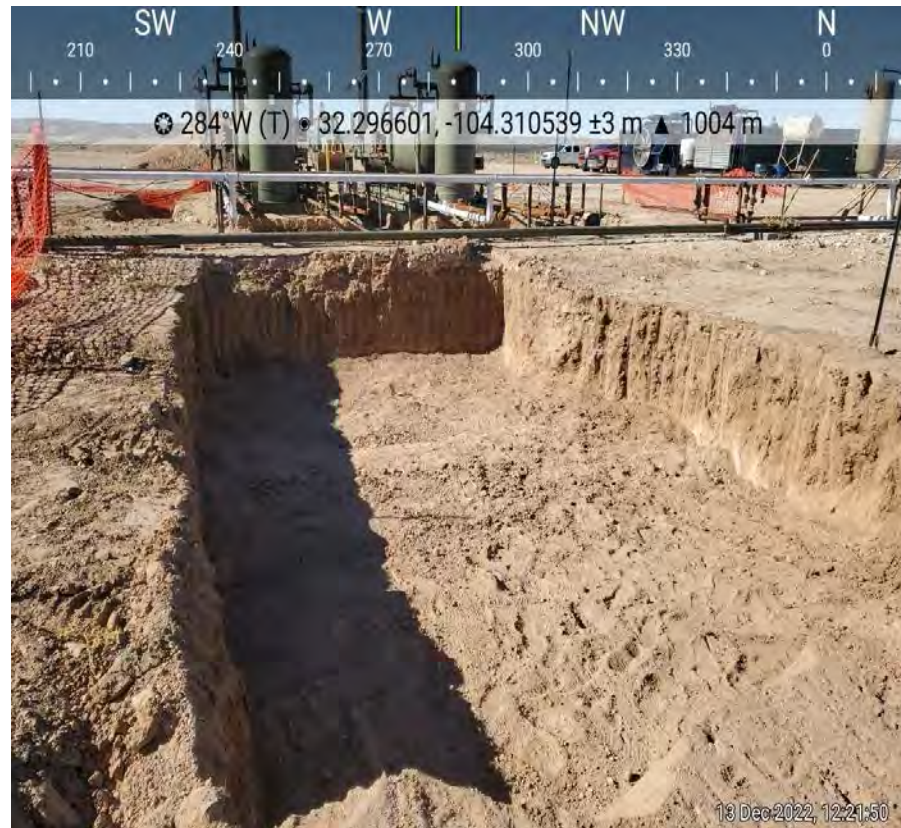
**Photograph No. 4****Facility:** Asteroid 20 29 Federal
Com WCA #1H**County:** Eddy County, NM**Date:** 12/13/2022**Description:**

Excavation of soils to two and a half feet below ground surface.



PHOTOGRAPHIC LOG

Earthstone Operating, LLC

Photograph No. 5**Facility:** Asteroid 20 29 Federal
Com WCA #1H**County:** Eddy County, NM**Date:** 12/13/2022**Description:**View of the excavation to three feet
below ground surface.**Photograph No. 6****Facility:** Asteroid 20 29 Federal
Com WCA #1H**County:** Eddy County, NM**Date:** 12/13/2022**Description:**View of the excavation to three feet
below ground surface.

LABORATORY REPORTS AND CHAIN-OF-CUSTODY



Environment Testing

1

2

3

4

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14

ANALYTICAL REPORT

PREPARED FOR

Attn: Becky Haskell

NT Global

701 Tradewinds Blvd

Midland, Texas 79706

Generated 12/27/2022 8:47:56 AM

JOB DESCRIPTION

Asteroid

SDG NUMBER Eddy County NM

JOB NUMBER

890-3644-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad**Job Notes**

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

Authorization

Generated
12/27/2022 8:47:56 AM

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

Client: NT Global
Project/Site: Asteroid

Laboratory Job ID: 890-3644-1
SDG: Eddy County NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	19
QC Sample Results	21
QC Association Summary	25
Lab Chronicle	29
Certification Summary	34
Method Summary	35
Sample Summary	36
Chain of Custody	37
Receipt Checklists	41

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

Job ID: 890-3644-1

Laboratory: Eurofins Carlsbad

Narrative

**Job Narrative
890-3644-1**

Receipt

The samples were received on 12/13/2022 1:37 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 15.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (890-3644-1), CS-2 (890-3644-2), CS-2 (890-3644-3), CS-3 (890-3644-4), CS-3 (890-3644-5), CS-4 (890-3644-6), CS-5 (890-3644-7), CS-6 (890-3644-8), SW-1 (890-3644-9), SW-2 (890-3644-10), SW-3 (890-3644-11), SW-4 (890-3644-12), SW-5 (890-3644-13), SW-6 (890-3644-14) and SW-7 (890-3644-15).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-42504 and analytical batch 880-42591 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-41942 and analytical batch 880-42078 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: CS-1 (890-3644-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-2 (890-3644-3) and CS-3 (890-3644-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-5 (890-3644-7) and SW-2 (890-3644-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW-4 (890-3644-12). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW-7 (890-3644-15). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-41925 and analytical batch 880-42330 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: SW-3 (890-3644-11), SW-4 (890-3644-12), SW-5 (890-3644-13), SW-6 (890-3644-14), SW-7 (890-3644-15), (890-3644-A-11-B MS) and (890-3644-A-11-C MSD).

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-41925 and 880-41925 and analytical batch 880-42330 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: CS-1 (890-3644-1), CS-2 (890-3644-2), CS-2 (890-3644-3), CS-3 (890-3644-4), CS-3 (890-3644-5), CS-4 (890-3644-6), CS-5 (890-3644-7), CS-6 (890-3644-8), SW-1 (890-3644-9), SW-2 (890-3644-10), (890-3644-A-1-B MS) and (890-3644-A-1-C MSD).

Case Narrative

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

Job ID: 890-3644-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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

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Client Sample Results

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

Client Sample ID: CS-1

Lab Sample ID: 890-3644-1

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Sample Depth: 2.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1	0.00201		mg/Kg		12/22/22 11:12	12/24/22 18:08	1
Toluene	<0.00201	U F1	0.00201		mg/Kg		12/22/22 11:12	12/24/22 18:08	1
Ethylbenzene	<0.00201	U F1 F2	0.00201		mg/Kg		12/22/22 11:12	12/24/22 18:08	1
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.00402		mg/Kg		12/22/22 11:12	12/24/22 18:08	1
o-Xylene	<0.00201	U F1 F2	0.00201		mg/Kg		12/22/22 11:12	12/24/22 18:08	1
Xylenes, Total	<0.00402	U F1 F2	0.00402		mg/Kg		12/22/22 11:12	12/24/22 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	12/22/22 11:12	12/24/22 18:08	1
1,4-Difluorobenzene (Surr)	106		70 - 130	12/22/22 11:12	12/24/22 18:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/26/22 15:59	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			12/19/22 15:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/17/22 23:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/17/22 23:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/17/22 23:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	12/15/22 15:21	12/17/22 23:59	1
o-Terphenyl	136	S1+	70 - 130	12/15/22 15:21	12/17/22 23:59	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.7	F1	5.03		mg/Kg			12/22/22 21:23	1

Client Sample ID: CS-2

Lab Sample ID: 890-3644-2

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Sample Depth: 2.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 18:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 18:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 18:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/22/22 11:12	12/24/22 18:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 18:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/22/22 11:12	12/24/22 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	12/22/22 11:12	12/24/22 18:29	1

Eurofins Carlsbad

Client Sample Results

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

Client Sample ID: CS-2

Lab Sample ID: 890-3644-2

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Sample Depth: 2.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	110		70 - 130	12/22/22 11:12	12/24/22 18:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/26/22 15:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2070		49.9		mg/Kg			12/19/22 15:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	922		49.9		mg/Kg		12/15/22 15:21	12/18/22 01:04	1
Diesel Range Organics (Over C10-C28)	1150		49.9		mg/Kg		12/15/22 15:21	12/18/22 01:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 01:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				12/15/22 15:21	12/18/22 01:04	1
o-Terphenyl	104		70 - 130				12/15/22 15:21	12/18/22 01:04	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	875		4.97		mg/Kg			12/22/22 21:49	1

Client Sample ID: CS-2

Lab Sample ID: 890-3644-3

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Sample Depth: 3.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 18:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 18:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 18:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/22/22 11:12	12/24/22 18:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 18:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/22/22 11:12	12/24/22 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	12/22/22 11:12	12/24/22 18:49	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/22/22 11:12	12/24/22 18:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/26/22 15:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	176		49.9		mg/Kg			12/19/22 15:35	1

Eurofins Carlsbad

Client Sample Results

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

Client Sample ID: CS-2

Lab Sample ID: 890-3644-3

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Sample Depth: 3.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 01:25	1
Diesel Range Organics (Over C10-C28)	176		49.9		mg/Kg		12/15/22 15:21	12/18/22 01:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 01:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130				12/15/22 15:21	12/18/22 01:25	1
o-Terphenyl	143	S1+	70 - 130				12/15/22 15:21	12/18/22 01:25	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.9		4.97		mg/Kg			12/22/22 21:58	1

Client Sample ID: CS-3

Lab Sample ID: 890-3644-4

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Sample Depth: 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		12/22/22 11:12	12/24/22 19:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 19:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 19:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/22/22 11:12	12/24/22 19:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 19:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/22/22 11:12	12/24/22 19:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				12/22/22 11:12	12/24/22 19:09	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/22/22 11:12	12/24/22 19:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/26/22 15:59	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			12/19/22 15:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 01:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 01:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 01:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				12/15/22 15:21	12/18/22 01:47	1
o-Terphenyl	118		70 - 130				12/15/22 15:21	12/18/22 01:47	1

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Client Sample Results

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

Client Sample ID: CS-3

Lab Sample ID: 890-3644-4

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Sample Depth: 2.5

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	502		4.98		mg/Kg			12/22/22 22:07	1

Client Sample ID: CS-3

Lab Sample ID: 890-3644-5

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Sample Depth: 3.5

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		12/22/22 11:12	12/24/22 19:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 19:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 19:30	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/22/22 11:12	12/24/22 19:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 19:30	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/22/22 11:12	12/24/22 19:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				12/22/22 11:12	12/24/22 19:30	1
1,4-Difluorobenzene (Surr)	108		70 - 130				12/22/22 11:12	12/24/22 19:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/26/22 15:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/19/22 15:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 02:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 02:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 02:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				12/15/22 15:21	12/18/22 02:09	1
o-Terphenyl	135	S1+	70 - 130				12/15/22 15:21	12/18/22 02:09	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.7		4.98		mg/Kg			12/22/22 22:16	1

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Client Sample Results

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

Client Sample ID: CS-4

Lab Sample ID: 890-3644-6

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Sample Depth: 2.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/22/22 11:12	12/24/22 19:50	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/22/22 11:12	12/24/22 19:50	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/22/22 11:12	12/24/22 19:50	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		12/22/22 11:12	12/24/22 19:50	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/22/22 11:12	12/24/22 19:50	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/22/22 11:12	12/24/22 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	12/22/22 11:12	12/24/22 19:50	1
1,4-Difluorobenzene (Surr)	108		70 - 130	12/22/22 11:12	12/24/22 19:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			12/26/22 15:59	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			12/19/22 15:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 02:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 02:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 02:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	12/15/22 15:21	12/18/22 02:30	1
o-Terphenyl	122		70 - 130	12/15/22 15:21	12/18/22 02:30	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.8		4.96		mg/Kg			12/22/22 22:42	1

Client Sample ID: CS-5

Lab Sample ID: 890-3644-7

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Sample Depth: 2.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 20:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 20:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 20:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/22/22 11:12	12/24/22 20:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 20:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/22/22 11:12	12/24/22 20:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	12/22/22 11:12	12/24/22 20:11	1

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Client Sample Results

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

Client Sample ID: CS-5

Lab Sample ID: 890-3644-7

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Sample Depth: 2.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	111		70 - 130	12/22/22 11:12	12/24/22 20:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/26/22 15:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/19/22 15:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 02:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 02:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 02:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				12/15/22 15:21	12/18/22 02:51	1
o-Terphenyl	136	S1+	70 - 130				12/15/22 15:21	12/18/22 02:51	

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	162		5.04		mg/Kg			12/22/22 22:51	1

Client Sample ID: CS-6

Lab Sample ID: 890-3644-8

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Sample Depth: 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		12/22/22 11:12	12/24/22 20:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 20:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 20:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/22/22 11:12	12/24/22 20:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 20:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/22/22 11:12	12/24/22 20:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	12/22/22 11:12	12/24/22 20:31	1
1,4-Difluorobenzene (Surr)	102		70 - 130	12/22/22 11:12	12/24/22 20:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/26/22 15:59	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			12/19/22 15:35	1

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Client Sample Results

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

Client Sample ID: CS-6

Lab Sample ID: 890-3644-8

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Sample Depth: 2.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 03:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 03:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 03:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				12/15/22 15:21	12/18/22 03:13	1
o-Terphenyl	128		70 - 130				12/15/22 15:21	12/18/22 03:13	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	179		5.03		mg/Kg			12/22/22 22:59	1

Client Sample ID: SW-1

Lab Sample ID: 890-3644-9

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/22/22 11:12	12/24/22 20:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/22/22 11:12	12/24/22 20:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/22/22 11:12	12/24/22 20:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/22/22 11:12	12/24/22 20:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/22/22 11:12	12/24/22 20:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/22/22 11:12	12/24/22 20:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				12/22/22 11:12	12/24/22 20:51	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/22/22 11:12	12/24/22 20:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/26/22 15:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/19/22 15:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 03:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 03:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 03:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				12/15/22 15:21	12/18/22 03:34	1
o-Terphenyl	129		70 - 130				12/15/22 15:21	12/18/22 03:34	1

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Client Sample Results

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

Client Sample ID: SW-1

Lab Sample ID: 890-3644-9

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.5		4.98		mg/Kg			12/22/22 23:08	1

Client Sample ID: SW-2

Lab Sample ID: 890-3644-10

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

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		12/22/22 11:12	12/24/22 21:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 21:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 21:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/22/22 11:12	12/24/22 21:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 21:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/22/22 11:12	12/24/22 21:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	248	S1+	70 - 130	12/22/22 11:12	12/24/22 21:12	1
1,4-Difluorobenzene (Surr)	257	S1+	70 - 130	12/22/22 11:12	12/24/22 21:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/26/22 15:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/19/22 15:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 03:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 03:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 03:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	12/15/22 15:21	12/18/22 03:56	1
o-Terphenyl	136	S1+	70 - 130	12/15/22 15:21	12/18/22 03:56	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.4		4.99		mg/Kg			12/22/22 23:17	1

Client Sample ID: SW-3

Lab Sample ID: 890-3644-11

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

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		12/22/22 11:12	12/24/22 23:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 23:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 23:02	1

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Client Sample Results

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

Client Sample ID: SW-3

Lab Sample ID: 890-3644-11

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/22/22 11:12	12/24/22 23:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 23:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/22/22 11:12	12/24/22 23:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				12/22/22 11:12	12/24/22 23:02	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/22/22 11:12	12/24/22 23:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/26/22 15:59	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			12/19/22 15:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 04:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 04:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 04:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				12/15/22 15:21	12/18/22 04:39	1
o-Terphenyl	94		70 - 130				12/15/22 15:21	12/18/22 04:39	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	165	F1	4.98		mg/Kg			12/22/22 23:26	1

Client Sample ID: SW-4

Lab Sample ID: 890-3644-12

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

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		12/22/22 11:12	12/24/22 23:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 23:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 23:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/22/22 11:12	12/24/22 23:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 23:22	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/22/22 11:12	12/24/22 23:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				12/22/22 11:12	12/24/22 23:22	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/22/22 11:12	12/24/22 23:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/26/22 15:59	1

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Client Sample Results

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

Client Sample ID: SW-4

Lab Sample ID: 890-3644-12

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

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			12/19/22 15:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 05:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 05:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 05:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				12/15/22 15:21	12/18/22 05:01	1
o-Terphenyl	137	S1+	70 - 130				12/15/22 15:21	12/18/22 05:01	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.80		4.97		mg/Kg			12/22/22 23:52	1

Client Sample ID: SW-5

Lab Sample ID: 890-3644-13

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

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		12/22/22 11:12	12/24/22 23:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 23:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 23:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/22/22 11:12	12/24/22 23:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/24/22 23:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/22/22 11:12	12/24/22 23:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				12/22/22 11:12	12/24/22 23:43	1
1,4-Difluorobenzene (Surr)	109		70 - 130				12/22/22 11:12	12/24/22 23:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/26/22 15:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/19/22 15:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 05:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 05:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 05:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				12/15/22 15:21	12/18/22 05:23	1

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Client Sample Results

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

Client Sample ID: SW-5

Lab Sample ID: 890-3644-13

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	118		70 - 130	12/15/22 15:21	12/18/22 05:23	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.6		4.96		mg/Kg			12/23/22 00:00	1

Client Sample ID: SW-6

Lab Sample ID: 890-3644-14

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

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		12/22/22 11:12	12/25/22 00:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/25/22 00:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/25/22 00:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/22/22 11:12	12/25/22 00:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/25/22 00:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/22/22 11:12	12/25/22 00:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				12/22/22 11:12	12/25/22 00:03	1
1,4-Difluorobenzene (Surr)	105		70 - 130				12/22/22 11:12	12/25/22 00:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/26/22 15:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/19/22 15:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 05:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 05:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 05:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				12/15/22 15:21	12/18/22 05:44	1
o-Terphenyl	122		70 - 130				12/15/22 15:21	12/18/22 05:44	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			12/23/22 00:27	1

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Client Sample Results

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

Client Sample ID: SW-7

Lab Sample ID: 890-3644-15

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

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		12/22/22 11:12	12/25/22 00:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/25/22 00:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/25/22 00:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/22/22 11:12	12/25/22 00:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/22/22 11:12	12/25/22 00:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/22/22 11:12	12/25/22 00:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	12/22/22 11:12	12/25/22 00:23	1
1,4-Difluorobenzene (Surr)	109		70 - 130	12/22/22 11:12	12/25/22 00:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/26/22 15:59	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			12/19/22 15:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 06:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 06:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/18/22 06:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130	12/15/22 15:21	12/18/22 06:06	1
o-Terphenyl	140	S1+	70 - 130	12/15/22 15:21	12/18/22 06:06	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04		mg/Kg			12/23/22 00:36	1

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Surrogate Summary

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	BFB1	DFBZ1						
		(70-130)	(70-130)						
890-3644-1	CS-1	102	106						
890-3644-1 MS	CS-1	103	109						
890-3644-1 MSD	CS-1	100	104						
890-3644-2	CS-2	107	110						
890-3644-3	CS-2	102	107						
890-3644-4	CS-3	105	107						
890-3644-5	CS-3	107	108						
890-3644-6	CS-4	107	108						
890-3644-7	CS-5	112	111						
890-3644-8	CS-6	106	102						
890-3644-9	SW-1	104	107						
890-3644-10	SW-2	248 S1+	257 S1+						
890-3644-11	SW-3	103	106						
890-3644-12	SW-4	109	107						
890-3644-13	SW-5	111	109						
890-3644-14	SW-6	103	105						
890-3644-15	SW-7	106	109						
LCS 880-42504/1-A	Lab Control Sample	98	103						
LCSD 880-42504/2-A	Lab Control Sample Dup	99	107						
MB 880-42504/5-A	Method Blank	95	103						
Surrogate Legend									
BFB = 4-Bromofluorobenzene (Surr)									
DFBZ = 1,4-Difluorobenzene (Surr)									

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
890-3644-1	CS-1	121	136 S1+				
890-3644-1 MS	CS-1	104	104				
890-3644-1 MSD	CS-1	104	103				
890-3644-2	CS-2	105	104				
890-3644-3	CS-2	129	143 S1+				
890-3644-4	CS-3	107	118				
890-3644-5	CS-3	122	135 S1+				
890-3644-6	CS-4	109	122				
890-3644-7	CS-5	120	136 S1+				
890-3644-8	CS-6	117	128				
890-3644-9	SW-1	116	129				
890-3644-10	SW-2	121	136 S1+				
890-3644-11	SW-3	85	94				
890-3644-12	SW-4	127	137 S1+				
890-3644-13	SW-5	106	118				
890-3644-14	SW-6	110	122				
890-3644-15	SW-7	125	140 S1+				
LCS 880-41942/2-A	Lab Control Sample	109	118				
LCSD 880-41942/3-A	Lab Control Sample Dup	108	118				

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Surrogate Summary

Client: NT Global

Project/Site: Asteroid

Job ID: 890-3644-1

SDG: Eddy County NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
MB 880-41942/1-A	Method Blank	126	142 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-42504/5-A

Matrix: Solid

Analysis Batch: 42591

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42504

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 17:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 17:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 17:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/22/22 11:12	12/24/22 17:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 17:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/22/22 11:12	12/24/22 17:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	12/22/22 11:12	12/24/22 17:39	1
1,4-Difluorobenzene (Surr)	103		70 - 130	12/22/22 11:12	12/24/22 17:39	1

Lab Sample ID: LCS 880-42504/1-A

Matrix: Solid

Analysis Batch: 42591

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 42504

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09539		mg/Kg		95	70 - 130
Toluene	0.100	0.09169		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.09200		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.200	0.1929		mg/Kg		96	70 - 130
o-Xylene	0.100	0.09265		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-42504/2-A

Matrix: Solid

Analysis Batch: 42591

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42504

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09628		mg/Kg		96	70 - 130	1	35
Toluene	0.100	0.09162		mg/Kg		92	70 - 130	0	35
Ethylbenzene	0.100	0.09189		mg/Kg		92	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1928		mg/Kg		96	70 - 130	0	35
o-Xylene	0.100	0.09194		mg/Kg		92	70 - 130	1	35

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

Lab Sample ID: 890-3644-1 MS

Matrix: Solid

Analysis Batch: 42591

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 42504

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1	0.0998	0.09157		mg/Kg		92	70 - 130
Toluene	<0.00201	U F1	0.0998	0.08420		mg/Kg		84	70 - 130

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QC Sample Results

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

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

Lab Sample ID: 890-3644-1 MS

Matrix: Solid

Analysis Batch: 42591

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 42504

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U F1 F2	0.0998	0.08275		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.200	0.1737		mg/Kg		87	70 - 130
o-Xylene	<0.00201	U F1 F2	0.0998	0.08337		mg/Kg		83	70 - 130
Surrogate	%Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	103		70 - 130						
1,4-Difluorobenzene (Surr)	109		70 - 130						

Lab Sample ID: 890-3644-1 MSD

Matrix: Solid

Analysis Batch: 42591

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 42504

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.100	0.06924	F1	mg/Kg		69	70 - 130	28	35
Toluene	<0.00201	U F1	0.100	0.05936	F1	mg/Kg		59	70 - 130	35	35
Ethylbenzene	<0.00201	U F1 F2	0.100	0.05410	F1 F2	mg/Kg		54	70 - 130	42	35
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.201	0.1135	F1 F2	mg/Kg		57	70 - 130	42	35
o-Xylene	<0.00201	U F1 F2	0.100	0.05532	F1 F2	mg/Kg		55	70 - 130	40	35
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	100		70 - 130								
1,4-Difluorobenzene (Surr)	104		70 - 130								

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

Lab Sample ID: MB 880-41942/1-A

Matrix: Solid

Analysis Batch: 42078

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41942

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/17/22 22:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/17/22 22:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/17/22 22:54	1
Surrogate	%Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				12/15/22 15:21	12/17/22 22:54	1
o-Terphenyl	142	S1+	70 - 130				12/15/22 15:21	12/17/22 22:54	1

Lab Sample ID: LCS 880-41942/2-A

Matrix: Solid

Analysis Batch: 42078

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41942

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	848.4		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1024		mg/Kg		102	70 - 130

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QC Sample Results

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

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

Lab Sample ID: LCS 880-41942/2-A

Matrix: Solid

Analysis Batch: 42078

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41942

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	118		70 - 130

Lab Sample ID: LCSD 880-41942/3-A

Matrix: Solid

Analysis Batch: 42078

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41942

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	831.8		mg/Kg		83	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1011		mg/Kg		101	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	118		70 - 130

Lab Sample ID: 890-3644-1 MS

Matrix: Solid

Analysis Batch: 42078

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 41942

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	954.0		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1159		mg/Kg		114	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 890-3644-1 MSD

Matrix: Solid

Analysis Batch: 42078

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 41942

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	1038		mg/Kg		102	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1144		mg/Kg		113	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	103		70 - 130

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QC Sample Results

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-41925/1-A

Matrix: Solid

Analysis Batch: 42330

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/22/22 20:57	1

Lab Sample ID: LCS 880-41925/2-A

Matrix: Solid

Analysis Batch: 42330

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	268.0		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-41925/3-A

Matrix: Solid

Analysis Batch: 42330

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	266.1		mg/Kg		106	90 - 110	1	20

Lab Sample ID: 890-3644-1 MS

Matrix: Solid

Analysis Batch: 42330

Client Sample ID: CS-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	22.7	F1	252	315.0	F1	mg/Kg		116	90 - 110

Lab Sample ID: 890-3644-1 MSD

Matrix: Solid

Analysis Batch: 42330

Client Sample ID: CS-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	22.7	F1	252	314.0	F1	mg/Kg		116	90 - 110	0	20

Lab Sample ID: 890-3644-11 MS

Matrix: Solid

Analysis Batch: 42330

Client Sample ID: SW-3

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	165	F1	249	505.8	F1	mg/Kg		137	90 - 110

Lab Sample ID: 890-3644-11 MSD

Matrix: Solid

Analysis Batch: 42330

Client Sample ID: SW-3

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	165	F1	249	484.9	F1	mg/Kg		129	90 - 110	4	20

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QC Association Summary

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

GC VOA

Prep Batch: 42504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3644-1	CS-1	Total/NA	Solid	5035	
890-3644-2	CS-2	Total/NA	Solid	5035	
890-3644-3	CS-2	Total/NA	Solid	5035	
890-3644-4	CS-3	Total/NA	Solid	5035	
890-3644-5	CS-3	Total/NA	Solid	5035	
890-3644-6	CS-4	Total/NA	Solid	5035	
890-3644-7	CS-5	Total/NA	Solid	5035	
890-3644-8	CS-6	Total/NA	Solid	5035	
890-3644-9	SW-1	Total/NA	Solid	5035	
890-3644-10	SW-2	Total/NA	Solid	5035	
890-3644-11	SW-3	Total/NA	Solid	5035	
890-3644-12	SW-4	Total/NA	Solid	5035	
890-3644-13	SW-5	Total/NA	Solid	5035	
890-3644-14	SW-6	Total/NA	Solid	5035	
890-3644-15	SW-7	Total/NA	Solid	5035	
MB 880-42504/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42504/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42504/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3644-1 MS	CS-1	Total/NA	Solid	5035	
890-3644-1 MSD	CS-1	Total/NA	Solid	5035	

Analysis Batch: 42591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3644-1	CS-1	Total/NA	Solid	8021B	42504
890-3644-2	CS-2	Total/NA	Solid	8021B	42504
890-3644-3	CS-2	Total/NA	Solid	8021B	42504
890-3644-4	CS-3	Total/NA	Solid	8021B	42504
890-3644-5	CS-3	Total/NA	Solid	8021B	42504
890-3644-6	CS-4	Total/NA	Solid	8021B	42504
890-3644-7	CS-5	Total/NA	Solid	8021B	42504
890-3644-8	CS-6	Total/NA	Solid	8021B	42504
890-3644-9	SW-1	Total/NA	Solid	8021B	42504
890-3644-10	SW-2	Total/NA	Solid	8021B	42504
890-3644-11	SW-3	Total/NA	Solid	8021B	42504
890-3644-12	SW-4	Total/NA	Solid	8021B	42504
890-3644-13	SW-5	Total/NA	Solid	8021B	42504
890-3644-14	SW-6	Total/NA	Solid	8021B	42504
890-3644-15	SW-7	Total/NA	Solid	8021B	42504
MB 880-42504/5-A	Method Blank	Total/NA	Solid	8021B	42504
LCS 880-42504/1-A	Lab Control Sample	Total/NA	Solid	8021B	42504
LCSD 880-42504/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42504
890-3644-1 MS	CS-1	Total/NA	Solid	8021B	42504
890-3644-1 MSD	CS-1	Total/NA	Solid	8021B	42504

Analysis Batch: 42603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3644-1	CS-1	Total/NA	Solid	Total BTEX	
890-3644-2	CS-2	Total/NA	Solid	Total BTEX	
890-3644-3	CS-2	Total/NA	Solid	Total BTEX	
890-3644-4	CS-3	Total/NA	Solid	Total BTEX	
890-3644-5	CS-3	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

GC VOA (Continued)

Analysis Batch: 42603 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3644-6	CS-4	Total/NA	Solid	Total BTEX	
890-3644-7	CS-5	Total/NA	Solid	Total BTEX	
890-3644-8	CS-6	Total/NA	Solid	Total BTEX	
890-3644-9	SW-1	Total/NA	Solid	Total BTEX	
890-3644-10	SW-2	Total/NA	Solid	Total BTEX	
890-3644-11	SW-3	Total/NA	Solid	Total BTEX	
890-3644-12	SW-4	Total/NA	Solid	Total BTEX	
890-3644-13	SW-5	Total/NA	Solid	Total BTEX	
890-3644-14	SW-6	Total/NA	Solid	Total BTEX	
890-3644-15	SW-7	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 41942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3644-1	CS-1	Total/NA	Solid	8015NM Prep	
890-3644-2	CS-2	Total/NA	Solid	8015NM Prep	
890-3644-3	CS-2	Total/NA	Solid	8015NM Prep	
890-3644-4	CS-3	Total/NA	Solid	8015NM Prep	
890-3644-5	CS-3	Total/NA	Solid	8015NM Prep	
890-3644-6	CS-4	Total/NA	Solid	8015NM Prep	
890-3644-7	CS-5	Total/NA	Solid	8015NM Prep	
890-3644-8	CS-6	Total/NA	Solid	8015NM Prep	
890-3644-9	SW-1	Total/NA	Solid	8015NM Prep	
890-3644-10	SW-2	Total/NA	Solid	8015NM Prep	
890-3644-11	SW-3	Total/NA	Solid	8015NM Prep	
890-3644-12	SW-4	Total/NA	Solid	8015NM Prep	
890-3644-13	SW-5	Total/NA	Solid	8015NM Prep	
890-3644-14	SW-6	Total/NA	Solid	8015NM Prep	
890-3644-15	SW-7	Total/NA	Solid	8015NM Prep	
MB 880-41942/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41942/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41942/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3644-1 MS	CS-1	Total/NA	Solid	8015NM Prep	
890-3644-1 MSD	CS-1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 42078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3644-1	CS-1	Total/NA	Solid	8015B NM	41942
890-3644-2	CS-2	Total/NA	Solid	8015B NM	41942
890-3644-3	CS-2	Total/NA	Solid	8015B NM	41942
890-3644-4	CS-3	Total/NA	Solid	8015B NM	41942
890-3644-5	CS-3	Total/NA	Solid	8015B NM	41942
890-3644-6	CS-4	Total/NA	Solid	8015B NM	41942
890-3644-7	CS-5	Total/NA	Solid	8015B NM	41942
890-3644-8	CS-6	Total/NA	Solid	8015B NM	41942
890-3644-9	SW-1	Total/NA	Solid	8015B NM	41942
890-3644-10	SW-2	Total/NA	Solid	8015B NM	41942
890-3644-11	SW-3	Total/NA	Solid	8015B NM	41942
890-3644-12	SW-4	Total/NA	Solid	8015B NM	41942
890-3644-13	SW-5	Total/NA	Solid	8015B NM	41942

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QC Association Summary

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

GC Semi VOA (Continued)

Analysis Batch: 42078 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3644-14	SW-6	Total/NA	Solid	8015B NM	41942
890-3644-15	SW-7	Total/NA	Solid	8015B NM	41942
MB 880-41942/1-A	Method Blank	Total/NA	Solid	8015B NM	41942
LCS 880-41942/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41942
LCSD 880-41942/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41942
890-3644-1 MS	CS-1	Total/NA	Solid	8015B NM	41942
890-3644-1 MSD	CS-1	Total/NA	Solid	8015B NM	41942

Analysis Batch: 42227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3644-1	CS-1	Total/NA	Solid	8015 NM	
890-3644-2	CS-2	Total/NA	Solid	8015 NM	
890-3644-3	CS-2	Total/NA	Solid	8015 NM	
890-3644-4	CS-3	Total/NA	Solid	8015 NM	
890-3644-5	CS-3	Total/NA	Solid	8015 NM	
890-3644-6	CS-4	Total/NA	Solid	8015 NM	
890-3644-7	CS-5	Total/NA	Solid	8015 NM	
890-3644-8	CS-6	Total/NA	Solid	8015 NM	
890-3644-9	SW-1	Total/NA	Solid	8015 NM	
890-3644-10	SW-2	Total/NA	Solid	8015 NM	
890-3644-11	SW-3	Total/NA	Solid	8015 NM	
890-3644-12	SW-4	Total/NA	Solid	8015 NM	
890-3644-13	SW-5	Total/NA	Solid	8015 NM	
890-3644-14	SW-6	Total/NA	Solid	8015 NM	
890-3644-15	SW-7	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 41925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3644-1	CS-1	Soluble	Solid	DI Leach	
890-3644-2	CS-2	Soluble	Solid	DI Leach	
890-3644-3	CS-2	Soluble	Solid	DI Leach	
890-3644-4	CS-3	Soluble	Solid	DI Leach	
890-3644-5	CS-3	Soluble	Solid	DI Leach	
890-3644-6	CS-4	Soluble	Solid	DI Leach	
890-3644-7	CS-5	Soluble	Solid	DI Leach	
890-3644-8	CS-6	Soluble	Solid	DI Leach	
890-3644-9	SW-1	Soluble	Solid	DI Leach	
890-3644-10	SW-2	Soluble	Solid	DI Leach	
890-3644-11	SW-3	Soluble	Solid	DI Leach	
890-3644-12	SW-4	Soluble	Solid	DI Leach	
890-3644-13	SW-5	Soluble	Solid	DI Leach	
890-3644-14	SW-6	Soluble	Solid	DI Leach	
890-3644-15	SW-7	Soluble	Solid	DI Leach	
MB 880-41925/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-41925/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-41925/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3644-1 MS	CS-1	Soluble	Solid	DI Leach	
890-3644-1 MSD	CS-1	Soluble	Solid	DI Leach	
890-3644-11 MS	SW-3	Soluble	Solid	DI Leach	

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QC Association Summary

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

HPLC/IC (Continued)

Leach Batch: 41925 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3644-11 MSD	SW-3	Soluble	Solid	DI Leach	

Analysis Batch: 42330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3644-1	CS-1	Soluble	Solid	300.0	41925
890-3644-2	CS-2	Soluble	Solid	300.0	41925
890-3644-3	CS-2	Soluble	Solid	300.0	41925
890-3644-4	CS-3	Soluble	Solid	300.0	41925
890-3644-5	CS-3	Soluble	Solid	300.0	41925
890-3644-6	CS-4	Soluble	Solid	300.0	41925
890-3644-7	CS-5	Soluble	Solid	300.0	41925
890-3644-8	CS-6	Soluble	Solid	300.0	41925
890-3644-9	SW-1	Soluble	Solid	300.0	41925
890-3644-10	SW-2	Soluble	Solid	300.0	41925
890-3644-11	SW-3	Soluble	Solid	300.0	41925
890-3644-12	SW-4	Soluble	Solid	300.0	41925
890-3644-13	SW-5	Soluble	Solid	300.0	41925
890-3644-14	SW-6	Soluble	Solid	300.0	41925
890-3644-15	SW-7	Soluble	Solid	300.0	41925
MB 880-41925/1-A	Method Blank	Soluble	Solid	300.0	41925
LCS 880-41925/2-A	Lab Control Sample	Soluble	Solid	300.0	41925
LCSD 880-41925/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	41925
890-3644-1 MS	CS-1	Soluble	Solid	300.0	41925
890-3644-1 MSD	CS-1	Soluble	Solid	300.0	41925
890-3644-11 MS	SW-3	Soluble	Solid	300.0	41925
890-3644-11 MSD	SW-3	Soluble	Solid	300.0	41925

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Lab Chronicle

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

Client Sample ID: CS-1

Lab Sample ID: 890-3644-1

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	42504	12/22/22 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/24/22 18:08	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42603	12/26/22 15:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42227	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/17/22 23:59	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/22/22 21:23	SMC	EET MID

Client Sample ID: CS-2

Lab Sample ID: 890-3644-2

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42504	12/22/22 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/24/22 18:29	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42603	12/26/22 15:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42227	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 01:04	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/22/22 21:49	SMC	EET MID

Client Sample ID: CS-2

Lab Sample ID: 890-3644-3

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	42504	12/22/22 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/24/22 18:49	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42603	12/26/22 15:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42227	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 01:25	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/22/22 21:58	SMC	EET MID

Client Sample ID: CS-3

Lab Sample ID: 890-3644-4

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	42504	12/22/22 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/24/22 19:09	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42603	12/26/22 15:59	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

Client Sample ID: CS-3

Lab Sample ID: 890-3644-4

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			42227	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 01:47	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/22/22 22:07	SMC	EET MID

Client Sample ID: CS-3

Lab Sample ID: 890-3644-5

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	42504	12/22/22 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/24/22 19:30	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42603	12/26/22 15:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42227	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 02:09	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/22/22 22:16	SMC	EET MID

Client Sample ID: CS-4

Lab Sample ID: 890-3644-6

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	42504	12/22/22 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/24/22 19:50	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42603	12/26/22 15:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42227	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 02:30	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/22/22 22:42	SMC	EET MID

Client Sample ID: CS-5

Lab Sample ID: 890-3644-7

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	42504	12/22/22 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/24/22 20:11	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42603	12/26/22 15:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42227	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 02:51	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

Client Sample ID: CS-5

Lab Sample ID: 890-3644-7

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/22/22 22:51	SMC	EET MID

Client Sample ID: CS-6

Lab Sample ID: 890-3644-8

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	42504	12/22/22 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/24/22 20:31	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42603	12/26/22 15:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42227	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 03:13	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/22/22 22:59	SMC	EET MID

Client Sample ID: SW-1

Lab Sample ID: 890-3644-9

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	42504	12/22/22 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/24/22 20:51	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42603	12/26/22 15:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42227	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 03:34	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/22/22 23:08	SMC	EET MID

Client Sample ID: SW-2

Lab Sample ID: 890-3644-10

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42504	12/22/22 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/24/22 21:12	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42603	12/26/22 15:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42227	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 03:56	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/22/22 23:17	SMC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

Client Sample ID: SW-3

Lab Sample ID: 890-3644-11

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	42504	12/22/22 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/24/22 23:02	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42603	12/26/22 15:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42227	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 04:39	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/22/22 23:26	SMC	EET MID

Client Sample ID: SW-4

Lab Sample ID: 890-3644-12

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	42504	12/22/22 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/24/22 23:22	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42603	12/26/22 15:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42227	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 05:01	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/22/22 23:52	SMC	EET MID

Client Sample ID: SW-5

Lab Sample ID: 890-3644-13

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42504	12/22/22 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/24/22 23:43	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42603	12/26/22 15:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42227	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 05:23	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/23/22 00:00	SMC	EET MID

Client Sample ID: SW-6

Lab Sample ID: 890-3644-14

Date Collected: 12/13/22 12:00

Matrix: Solid

Date Received: 12/13/22 13:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	42504	12/22/22 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/25/22 00:03	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42603	12/26/22 15:59	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

Client Sample ID: SW-6
Date Collected: 12/13/22 12:00
Date Received: 12/13/22 13:37

Lab Sample ID: 890-3644-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			42227	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 05:44	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/23/22 00:27	SMC	EET MID

Client Sample ID: SW-7
Date Collected: 12/13/22 12:00
Date Received: 12/13/22 13:37

Lab Sample ID: 890-3644-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	42504	12/22/22 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/25/22 00:23	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42603	12/26/22 15:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42227	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 06:06	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/23/22 00:36	SMC	EET MID

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

Accreditation/Certification Summary

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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

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

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

Method Summary

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: NT Global
Project/Site: Asteroid

Job ID: 890-3644-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3644-1	CS-1	Solid	12/13/22 12:00	12/13/22 13:37	2.5'
890-3644-2	CS-2	Solid	12/13/22 12:00	12/13/22 13:37	2.5'
890-3644-3	CS-2	Solid	12/13/22 12:00	12/13/22 13:37	3.5
890-3644-4	CS-3	Solid	12/13/22 12:00	12/13/22 13:37	2.5
890-3644-5	CS-3	Solid	12/13/22 12:00	12/13/22 13:37	3.5
890-3644-6	CS-4	Solid	12/13/22 12:00	12/13/22 13:37	2.5
890-3644-7	CS-5	Solid	12/13/22 12:00	12/13/22 13:37	2.5
890-3644-8	CS-6	Solid	12/13/22 12:00	12/13/22 13:37	2.5
890-3644-9	SW-1	Solid	12/13/22 12:00	12/13/22 13:37	
890-3644-10	SW-2	Solid	12/13/22 12:00	12/13/22 13:37	
890-3644-11	SW-3	Solid	12/13/22 12:00	12/13/22 13:37	
890-3644-12	SW-4	Solid	12/13/22 12:00	12/13/22 13:37	
890-3644-13	SW-5	Solid	12/13/22 12:00	12/13/22 13:37	
890-3644-14	SW-6	Solid	12/13/22 12:00	12/13/22 13:37	
890-3644-15	SW-7	Solid	12/13/22 12:00	12/13/22 13:37	



Environment Testing

Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 986-3199

Chain of Custody

Work Order No: _____

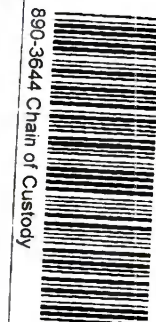
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Page 1 of 2

Project Manager:	Beky Haswell	Bill to: (if different)	Cms Martin
Company Name:	ATGE	Company Name:	Fatherson Engineering LLC
Address:	200 N Limestone Suite 200	Address:	600 N. Mercury
City, State ZIP:	Midland TX 79701	City, State ZIP:	Midland TX 79701
Phone:	432-766-1418	Email:	Cmeth@earthsonenergy.com

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

Project Name:	Asterad	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	
Project Number:	306565	Due Date:			
Project Location:	Felly Co. VA	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Kenny Han	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
P.O. #:		Thermometer ID:	THW-207		
SAMPLE RECEIPT		Correction Factor:	-0.2		
Samples Received In tact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	15.2		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Corrected Temperature:	15.2		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
Total Containers:	15				



890-3644 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Preservative Codes	Sample Comments
CS-1		12/13		2-5	Comp	4	TPH Chlorides BTEX	None: NO DI Water: H ₂ O Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NASO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SARC	
CS-2				2-5					
CS-3				2-5					
CS-3				2-5					
CS-4				2-5					
CS-5				2-5					
CS-6				2-5					
SLU-1									
SLU-2									

Total 2007 / 6010	2008 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471	

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins 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 Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time

Revised Date: 08/25/2020 Rev: 2020.2



Environment Testing

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No:

www.xenco.com Page 2 of 2

Project Manager:	Breckley Haskell	Bill to: (if different)	Chris Mathon
Company Name:	KJTB	Company Name:	Earthstone Operating LLC
Address:	200 N. Locust Suite 200	Address:	6000 N. Newman Rd) Suite 100
City, State ZIP:	Midland TX 79701	City, State ZIP:	Midland TX 79701
Phone:	432-766-1415	Email:	Cmathon@earthstoneenergy.com

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

[illegible][illegible]

Total 200.7 / 6010	200.8 / 6020:																												
Circle Method(s) and Metal(s) to be analyzed	8RCRA 13PPM Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn
	TCLP / SPLP 6010 : 8RCRA 5b As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471																											

Notice: Signature of this document and fulfillment of sample constitutes a valid purchase order from client company to Eurofins Xenico, its affiliates and subcontractors, a assigns standard terms and conditions of service. Eurofins Xenico 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 Eurofins Xenico. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenico, but not analyzed. These terms will be enforced unless previously negotiated.

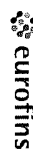
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	12/13/22 1357			

Revised Date 08/25/2020 Rev. 2020.2

Eurofins Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone. 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)						Sampler	Lab PM	COC No:
Client Contact: Shipping/Receiving						Phone:	Kramer, Jessica	890-1064 1
Company: Eurofins Environment Testing South Centr						E-Mail: Jessica.Kramer@et.eurofins.com	Accreditations Required (See note): NELAP - Texas	Page: Page 1 of 2
Address: 1211 W Florida Ave						Due Date Requested: 12/19/2022	State of Origin: Texas	Job #: 890-3644-1
City: Midland						TAT Requested (days):	Analysis Requested	
State, Zip: TX, 79701						PO #:	Preservation Codes	
Phone: 432-704-5440(Tel)						WO #:	A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Project Name: Asteroid						Project #: 89000131	M - None N - None O - AshNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylalrylate U - Acetone V - MCAA W - pH 4.5 Y - Trituma Z other (specify)	
Site SSON#:								
Sample Identification - Client ID (Lab ID)						Special Instructions/Note:		
CS-1 (890-3644-1)	Sample Date: 12/13/22	Sample Time: 12 00	Sample Type: Central	G=grab	Matrix (w/water, s-solid, o-wastefoil, br-tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers
CS-2 (890-3644-2)	12/13/22	12 00	Central		Solid	X	X	X
CS-2 (890-3644-3)	12/13/22	12 00	Central		Solid	X	X	X
CS-3 (890-3644-4)	12/13/22	12 00	Central		Solid	X	X	X
CS-3 (890-3644-5)	12/13/22	12 00	Central		Solid	X	X	X
CS-4 (890-3644-6)	12/13/22	12 00	Central		Solid	X	X	X
CS-5 (890-3644-7)	12/13/22	12 00	Central		Solid	X	X	X
CS-6 (890-3644-8)	12/13/22	12 00	Central		Solid	X	X	X
SW-1 (890-3644-9)	12/13/22	12 00	Central		Solid	X	X	X
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other institutions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.								
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		
Unconfirmed Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months		
Empty Kit Relinquished by						Date/Time	Date	Method of Shipment
Relinquished by: CUE						Date/Time	Date	Company
Relinquished by:						Date/Time	Date	Company
Relinquished by:						Date/Time	Date	Company
Custody Seals Intact: Δ Yes Δ No						Custody Seal No	Cooler Temperature(s) °C and Other Remarks.	

Eurofins Carlsbad


1089 N Canal St

Carlsbad NM 88220

Phone: 575-988-3199

Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)				Lab PM Kramer, Jessica		Carrier Tracking No(s)		COC No: 890-1064 1																							
Client Contact: Shipping/Receiving				E-Mail Jessica Kramer@et.eurofins.com		State of Origin Texas		Page: Page 1 of 2																							
Company: Eurofins Environment Testing South Centr				Accreditations Required (See note): NELAP - Texas		Job #: 890-3644-1		Job #: 890-3644-1																							
Address: 1211 W Florida Ave City: Midland State, Zip TX, 79701 Phone: 432-704-5440(Tel) Email: Project Name: Asteroid Site:				Due Date Requested 12/19/2022 TAT Requested (days): PO #: WO #: Project #: 89000131 SSOW#:		Analysis Requested																									
Sample Identification - Client ID (Lab ID)				Sample Date Sample Time		Sample Type (C=comp, G=grab) Preservation Code:		Matrix (W=water, S=solid, O=wastachi, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		300_ORGFM_28D/DL LEACH Chloride		8015MOD_NM/8015NM_S_Prep (MOD) Full TPH GRO-		8021B/6036FP_Calc BTEX		8015MOD_Calc		Total_BTEX_GCV		Total Number of containers		Special Instructions/Note:							
CS-1 (890-3644-1)				12/13/22 12 00 Central		Solid		Solid		X		X		X		X		X		X		X		1							
CS-2 (890-3644-2)				12/13/22 12 00 Central		Solid		Solid		X		X		X		X		X		X		X		X		1					
CS-3 (890-3644-3)				12/13/22 12 00 Central		Solid		Solid		X		X		X		X		X		X		X		X		1					
CS-4 (890-3644-4)				12/13/22 12 00 Central		Solid		Solid		X		X		X		X		X		X		X		X		1					
CS-5 (890-3644-5)				12/13/22 12 00 Central		Solid		Solid		X		X		X		X		X		X		X		X		1					
CS-6 (890-3644-6)				12/13/22 12 00 Central		Solid		Solid		X		X		X		X		X		X		X		X		1					
CS-7 (890-3644-7)				12/13/22 12 00 Central		Solid		Solid		X		X		X		X		X		X		X		X		1					
CS-8 (890-3644-8)				12/13/22 12 00 Central		Solid		Solid		X		X		X		X		X		X		X		X		1					
SW-1 (890-3644-9)				12/13/22 12 00 Central		Solid		Solid		X		X		X		X		X		X		X		X		1					
<p>Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.</p>																															
Possible Hazard Identification Unconfirmed Deliverable Requested I, II, III, IV Other (specify)																															
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements																															
Primary Deliverable Rank 2																															
Empty Kit Relinquished by _____ Date _____ Time _____ Relinquished by _____ Date/Time _____ Company _____ Relinquished by _____ Date/Time _____ Company _____ Relinquished by _____ Date/Time _____ Company _____ Custody Seals Intact: _____ Custody Seal No _____ Δ Yes Δ No																															

Login Sample Receipt Checklist

Client: NT Global

Job Number: 890-3644-1

SDG Number: Eddy County NM

Login Number: 3644

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: NT Global

Job Number: 890-3644-1

SDG Number: Eddy County NM

Login Number: 3644

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 12/15/22 11:29 AM

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.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
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").	True	



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

December 30, 2022

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: ASTEROID 20 29 FEDERAL COM WCA #1H

Enclosed are the results of analyses for samples received by the laboratory on 12/29/22 10:32.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/29/2022	Sampling Date:	12/29/2022
Reported:	12/30/2022	Sampling Type:	Soil
Project Name:	ASTEROID 20 29 FEDERAL COM WCA #1	Sampling Condition:	Cool & Intact
Project Number:	226535	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY, NM		

Sample ID: CS - 2 (4) (H226098-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/29/2022	ND	2.06	103	2.00	2.05	
Toluene*	<0.050	0.050	12/29/2022	ND	2.18	109	2.00	1.60	
Ethylbenzene*	<0.050	0.050	12/29/2022	ND	2.12	106	2.00	0.240	
Total Xylenes*	<0.150	0.150	12/29/2022	ND	6.52	109	6.00	0.0225	
Total BTX	<0.300	0.300	12/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/29/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	191	95.7	200	4.85	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	180	90.0	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 99.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/29/2022	Sampling Date:	12/29/2022
Reported:	12/30/2022	Sampling Type:	Soil
Project Name:	ASTEROID 20 29 FEDERAL COM WCA #1	Sampling Condition:	Cool & Intact
Project Number:	226535	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY, NM		

Sample ID: CS - 2 (4.5) (H226098-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/29/2022	ND	2.06	103	2.00	2.05		
Toluene*	<0.050	0.050	12/29/2022	ND	2.18	109	2.00	1.60		
Ethylbenzene*	<0.050	0.050	12/29/2022	ND	2.12	106	2.00	0.240		
Total Xylenes*	<0.150	0.150	12/29/2022	ND	6.52	109	6.00	0.0225		
Total BTEx	<0.300	0.300	12/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/29/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	191	95.7	200	4.85	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	180	90.0	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 79.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.9 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No.: 42210098-1

NTGE

Page 1 of 1

Page 5 of 5



Project Manager:	Becky Haskell	Bill to: (if different)	Chris Martin
Company Name:	NTG Environmental	Company Name:	Earthstone Operating LLC
Address:	701 Tradewinds Blvd.	Address:	600 N. Marientfeld, Suite 1000
City, State ZIP:	Midland TX, 79701	City, State ZIP:	Midland TX, 79701
Phone:	432-766-1918	Email:	cmartin@earthstoneenergy.com

Work Order Comments	
Program: UST/PS	PR <input type="checkbox"/> Brownfie <input type="checkbox"/> s R <input type="checkbox"/> t Super <input type="checkbox"/>
State of Project:	
Reporting: Level	<input type="checkbox"/> Level <input type="checkbox"/> PST/U <input type="checkbox"/> TR <input type="checkbox"/> P Ld <input type="checkbox"/>
Deliverables: EDD	<input type="checkbox"/> ADAP <input type="checkbox"/> Other:

[illegible][illegible]

Additional Comments:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xencro, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xencro 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 Xencro. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xencro, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		12/28/22 1032			

Revised Date 05/01/2020 Rev. 2020

District I

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

District II

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

District III

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

District IV

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

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

CONDITIONS

Action 173339

CONDITIONS

Operator: Earthstone Operating, LLC 1400 Woodloch Forest; Ste 300 The Woodlands, TX 77380	OGRID: 331165
	Action Number: 173339
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	Earthstone's deferral requests to complete final remediation during any future major construction/alteration or final plugging/abandonment, whichever occurs first. NTG and Earthstone do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The area requested for deferral is "CS-2". The area has 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. This is a federal site and will require like approval from BLM. For future reference, many of the Chain of Custody and Analysis Request forms showed samples not received at proper temperature of 6 deg. Celsius or below. If samples are improperly cared for again on future remediation projects, the report will be immediately denied.	5/8/2023