

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: MORNINGSTAR OPERATING, LLC	OGRID: 330132
Contact Name: MIKE HOWE	Contact Telephone: (505) 330-3058
Contact email: mhowe@ctfieldsvcs.com	Incident #: nAPP2227139978
Contact mailing address: 400 W 7 th St., Fort Worth, TX 76102	

Location of Release Source

Latitude 36.970000 Longitude -107.336111
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: CARRACAS 23A #004	Site Type: WELL
Date Release Discovered: 09/27/2022	API# (if applicable): 30-039-27550

Unit Letter	Section	Township	Range	County
D	23	32N	5W	RIO ARRIBA

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): 45	Volume Recovered (bbls): 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

The Rig consultant (Pete McNeil) reported that the drying pad filled with fresh water based drilling fluid mixed with coal cuttings overflowed when ground gave way under the outward containment berm and lost 6" of height.

Form C-141

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Estimated volume (based on length, width, and depth of drilling solids containment berm and sluff height is 44.5 bbl.
---	---

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Notice of Release submitted to OCD on 9/28/2022.

Initial Response

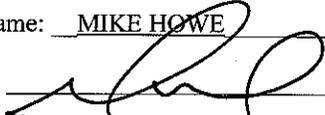
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<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 not been undertaken, explain why:

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

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

Printed Name: MIKE HOWE Title: PRODUCTION FOREMAN
 Signature:  Date: 10-30-22
 email: mhowe@ctfieldsvcs.com Telephone: (505) 330-3058

OCD Only
 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?	>100 (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.

Form C-141

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: Mike Howe Title: Production Foreman

Signature:  Date: 12-30-22

email: mhowe@ctfieldsvcs.com Telephone: (505) 330-3058

OCD Only

Received by: _____ Date: _____

Form C-141

State of New Mexico
Oil Conservation Division

Page 5

Incident ID	NAPP2227139978
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: Mike Howe *Mike Howe* Title: Production Foreman

Signature: *Mike Howe* Date: 6-7-2023

email: mhowe@ctfieldsvcs.com Telephone: (505) 330-3058

OCD Only

Received by: Jocelyn Harimon Date: 06/07/2023

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____

Form C-141

State of New Mexico
Oil Conservation Division

Page 6

Incident ID	NAPP2227139978
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Mike Howe *Mike Howe* Title: Production Foreman
 Signature: *Mike Howe* Date: 6-7-2023
 email: mhowe@ctfieldsvcs.com Telephone: (505) 330-3058

OCD Only

Received by: Jocelyn Harimon Date: 06/07/2023

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: Nelson Velez Date: 09/01/2023
 Printed Name: Nelson Velez Title: Environmental Specialist – Adv

MorningStar Operating, LLC's Carracas 23A #004 Final Closure Report

June 2023

Prepared for



*MorningStar Operating, LLC
400 W 7th St
Fort Worth, Texas 76102
Phone: (505) 330-3058*

Developed by



*EIS Environmental & Permitting Solutions, LLC.
479 Wolverine Drive #9
Bayfield, Colorado 81122
Phone: (970) 884-4080*

TABLE OF CONTENTS

1.0 Project Description and Remediation Status2

 1.1 Project Introduction 2

 1.1.1 Spill Site Photos..... 3

 1.1.2 Initial Remediation Site Photos 6

2.0 Soil Sampling Results12

3.0 Closure.....12

Attachment I – Table I Closure Criteria for Soils Impacted by a Release14

Attachment II – Maps.....15

Attachment III – Soil Sample Results16

Attachment IV – Complete Lab Report on Soil Samples.....21

Attachment V – Correspondence22

LIST OF TABLES

Table 1-1. Spill and Reclamation Area Disturbance Acreage 2

Table 2-1. Plots with measured TPH levels..... 12

Final Closure Report

Operator	MorningStar Operating, LLC (MorningStar)
Location Name	Carracas 23A #004
Legal Location	Section 23, Township 32 North, Range 5 West
API	30-039-27550
Incident ID	nAPP2227139978

This Final Closure Report has been prepared by EIS Environmental & Permitting Solutions, LLC. (EIS Environmental) for MorningStar Operating, LLC (MorningStar) to meet the requirements and guidelines of the New Mexico Oil Conservation Division (NMOCD) NMAC 19.15.29. This report describes the spill, the extent of the spill, remediation, soil sampling results, and closure criteria.

The MorningStar contact person for this Final Closure Report is:

Mike Howe
 Production Foreman
 MorningStar Operating, LLC
 400 W 7th St
 Fort Worth, Texas 76102
 505-330-3058

1.0 Project Description and Remediation Status

1.1 Project Introduction

The Carracas 23A #004 well is located in Section 23, Township 32 North, Range 5 West, within the Carson National Forest in New Mexico. The vegetative community consists of a mature ponderosa pine canopy with a gambles oak shrub understory. The natural topography of this location consists of a southeast aspect with approximately 0.092 slope (10% grade) prior to the disturbance. The well pad itself has a southeast aspect and approximately a 0.014 slope (1% grade).

Table 1-1. Spill and Reclamation Area Disturbance Acreage

Spill/Release Area	0.18 ac
Total Initial Remediation Area	0.28 ac

The release occurred on September 27, 2022, during the drilling of a new well, when the cuttings pit became overfilled, and the pit berm collapsed. The overfilling and berm failure resulted in a spill releasing approximately 45 BBL of freshwater and coal cuttings down gradient. The release made its way down gradient of the site for a distance of approximately 890 linear feet. After discovering the spill, MorningStar contacted the NMOCD and Carson National Forest Service, and began initial cleanup of the affected area. Hand crews and a skid-steer were utilized to clean up the soils in the area that had staining and odor within the flow path. Approximately 60 cubic yards of contaminated soil were removed. A Notice of Release (NOR) was filed with the NMOCD when the spill occurred by Samantha Avarello with MorningStar on September 28, 2022. A site inspection was conducted following the initial clean-up efforts for the spill on December 2, 2022, with Mike Howe of MorningStar and Tanner Paulek and Greg Riley of EIS Environmental. During the inspection, an inventory of existing site conditions was conducted; mapping of the spill flow path; a discussion of the clean-up efforts that had occurred, including contaminated soil removed and general impacts of the spill.

1.1.1 Spill Site Photos



Figure 1. Pit with Produced Water and Coal Cuttings (Sept 27, 2022)



Figure 2. Point of Spill (Sept 27, 2022)



Figure 3. Flow Path of Spill (Sept 27, 2022)



Figure 4. Flow Path of Spill (Sept 27, 2022)



Figure 5. Flow Path of Spill (Sept 27, 2022)



Figure 6. Flow Path of Spill (Sept 27, 2022)

1.1.2 Initial Remediation Site Photos



Figure 7. Start of Spill After Cleanup (Dec 2, 2022)



Figure 8. Flow Path After Cleanup (Dec 2, 2022)



Figure 9. Flow Path After Cleanup (Dec 2, 2022)



Figure 10. Flow Path After Cleanup (Dec 2, 2022)



Figure 11. Flow Path After Cleanup (Dec 2, 2022)



Figure 12. Flow Path After Cleanup (Dec 2, 2022)



Figure 13. Flow Path After Cleanup (Dec 2, 2022)



Figure 14. Flow Path After Cleanup (Dec 2, 2022)



Figure 15. Flow Path After Cleanup (Dec 2, 2022)



Figure 16. Flow Path After Cleanup (Dec 2, 2022)



Figure 17. Flow Path After Cleanup (Dec 2, 2022)



Figure 18. Flow Path After Cleanup (Dec 2, 2022)

2.0 Soil Sampling Results

As outlined in the Soil Sample Plan, EIS Environmental, on behalf of MorningStar, conducted sampling on May 3, 2023. Methodology included collecting a discreet sample every 400 square feet within the release flow path (22 samples in total, see Attachment II) along with four background samples upgradient of the impacted area utilizing the applicable reclamation standards per 19.15.29.13D(1) (See Attachment I) and the Procedures for Implementation of the Spill Rule (19.15.29 NMAC) document dated September 6, 2019. All samples were hand augured to a depth of 1 foot or to a restrictive layer. All samples were transported via ice and analyzed utilizing EPA 300 approved series.

The nearest Point of Diversion (POD) indicating a domestic water well is approximately 14,500' to the east and is at a depth of 800'. Looking at the NMOCD's data on the Carracas 23A #004, the top of the Ojo Alamo formation is 3,264 feet. Looking at a cathodic well that was drilled near the Carracas 18B #003 well, which is approximately 2.12 miles to the NE, water was found at a depth of 230'. As a result, we have concluded that depth to groundwater (DTGW) is estimated to be greater than 100 feet. As such, the closure criteria of soils in Table I >100 feet will be utilized.

Attachment III displays a summary of the results report from Green Analytical Laboratories received on May 16, 2023. A value of ND represents a reading of "not detected," indicating that values of the contaminant of interest were below measurable values. In comparing these results to the thresholds in the Table I – Closure Criteria for Soils Impacted by a Release for standards at >100 feet), there are no samples that exceed the threshold. Of note, only plots 8, 16, 18, and 21 had measurable values for total BTEX, all of which were less than 10% of the threshold value of 50mg/kg. Similarly, only plot 16 had any measurable benzene levels (0.071mg/kg) which was, again, well below the threshold of 10mg/kg. Only plot 9 had any measurable chloride level (13.8 mg/kg dry), which is less than 0.01% of the threshold value of 20,000 mg/kg. Finally, total petroleum hydrocarbon (TPH) levels are assessed for compliance with closure criteria using a value of the sum of gasoline range organics (GRO) C6-10, plus diesel range organics (DRO) C10-28, plus motor range organics (MRO) >C28-36. Attachment III indicates that only plots 16, 20, and 21 had detectable levels of DRO at 19.3mg/kg, 39.2mg/kg, and 11.4mg/kg respectively. Only plot 20 had a detectable levels of MRO at 13.4mg/kg, and only plot 16 had a detectable level of GRO at 10.6mg/kg. Therefore, the TPH levels for these plots are below, with all other plots having no detectable TPH.

Table 2-1. Plots with measured TPH levels

Plot	GRO	DRO	MRO	TPH
16	10.6 mg/kg	ND	19.3 mg/kg	29.9 mg/kg
20	ND	13.4 mg/kg	39.2 mg/kg	52.6 mg/kg
21	ND	ND	11.4 mg/kg	11.4 mg/kg

Therefore, all TPH levels are well below (less than 1% of) the threshold per the Table I – Closure Criteria for Soils Impacted by a Release for standards at >100 feet of 2,500 mg/kg.

3.0 Closure

MorningStar is requesting site closure for this spill. The terminal end did not enter into any setbacks as required by 19.15.29.12.C.(4). Remediation efforts were completed as described in section 1.0, and soil samples collected post remediation contained concentrations that were less than the parameters listed in Table I of 19.15.29.12 NMAC. As described in section 1.0, soil was removed with a skid-steer or by hand in a manner that retained original contours of the location.

According to the USDA NRCS web soil survey the soils within the release area are mapped as 721-Elbuck family, warm, Fort Lewis family, warm, and Lithic Ustorthents, frigid, dry soils, 0 to 40 percent slopes. Based on the location and ground truthing of the release area the soils can be further defined within the setting of Lithic Ustorthents, Frigid, Dry. These soils are described as having a restrictive depth at 0 -20 inches to lithic bedrock. The typical profile is described as having an organic soil layer (Oi) from 0 - 0 inches, an "A" layer of sandy loam from 0 to 2 inches, a "C" layer of loamy sand from 2-10 inches, and a "Cr" soil layer of at 10 – 13 inches. A typical topsoil layer supporting vegetative growth consists of Layers "Oi" and "A." Soil sampling in the field demonstrated a restrictive bedrock layer being encountered anywhere from 0 to 12 inches. In general, soil depths within the release area were observed on the shallower end of this spectrum in the field due to the release area being located within a depressional drainage with loss of soil from erosion over time.

MorningStar is requesting a variance from rule 19.15.29.13.D(1) requiring the reclamation contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. This variance is being requested based on the native soil condition having only a minimal cover of 0-20 inches. The remediated and reclaimed release area currently contains a soil cover including a top layer which is similar to the background thickness of topsoil in the area and is suitable material to establish vegetation at the site, as is illustrated by current vegetation growth occurring within the release area. Bringing in additional soil and equipment needed to spread and contour soils would negatively impact this site because it would require further disturbance of existing, well-developed vegetation which at the time of soil sampling (May 3, 2023), met the vegetative coverage requirements described in rule 19.15.29.13.D(3). At the release site, a tertiary ecosystem comprised of primarily woody trees and shrubs is observed with species composition consisting primarily of Ponderosa pine (*Pinus ponderosa*) and Gambel oak (*Quercus gambelii*). As this release occurred in a depressional drainage with frequent disturbance from erosion and beneath a well-developed canopy formed by Ponderosa pine and Gambel oak, pre-release vegetative coverage of grasses and forbs was likely sparse, and non-existent on bare bedrock. This can be observed downstream of the release in the non-disturbed areas of the depressional drainage. Pre-release tree and shrub species remain established.

Therefore, MorningStar posits that rule 19.15.29.13.D(3) has been met, and should a variance be granted from rule 19.15.29.13.D(1), would contraindicate the need for reseeded required in rule 19.15.29.13.D(2) as vegetative cover at the release site already matches background cover and pre-disturbance cover. Further, granting a variance to 19.15.29.13.D(1), based on the above explanations, will provide equal or better protection of fresh water, public health and the environment.

The Carson National Forest, Jicarilla Ranger District has been contacted for their comments concerning the requested variance. After conducting a site visit, they concurred that bringing in additional material would be unnecessary. Please refer to email communication dated 6/1/2023 and attached to this report.

Attachment I – Table I Closure Criteria for Soils Impacted by a Release

Table I Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 50 feet	Chloride***	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
>100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Attachment II – Maps

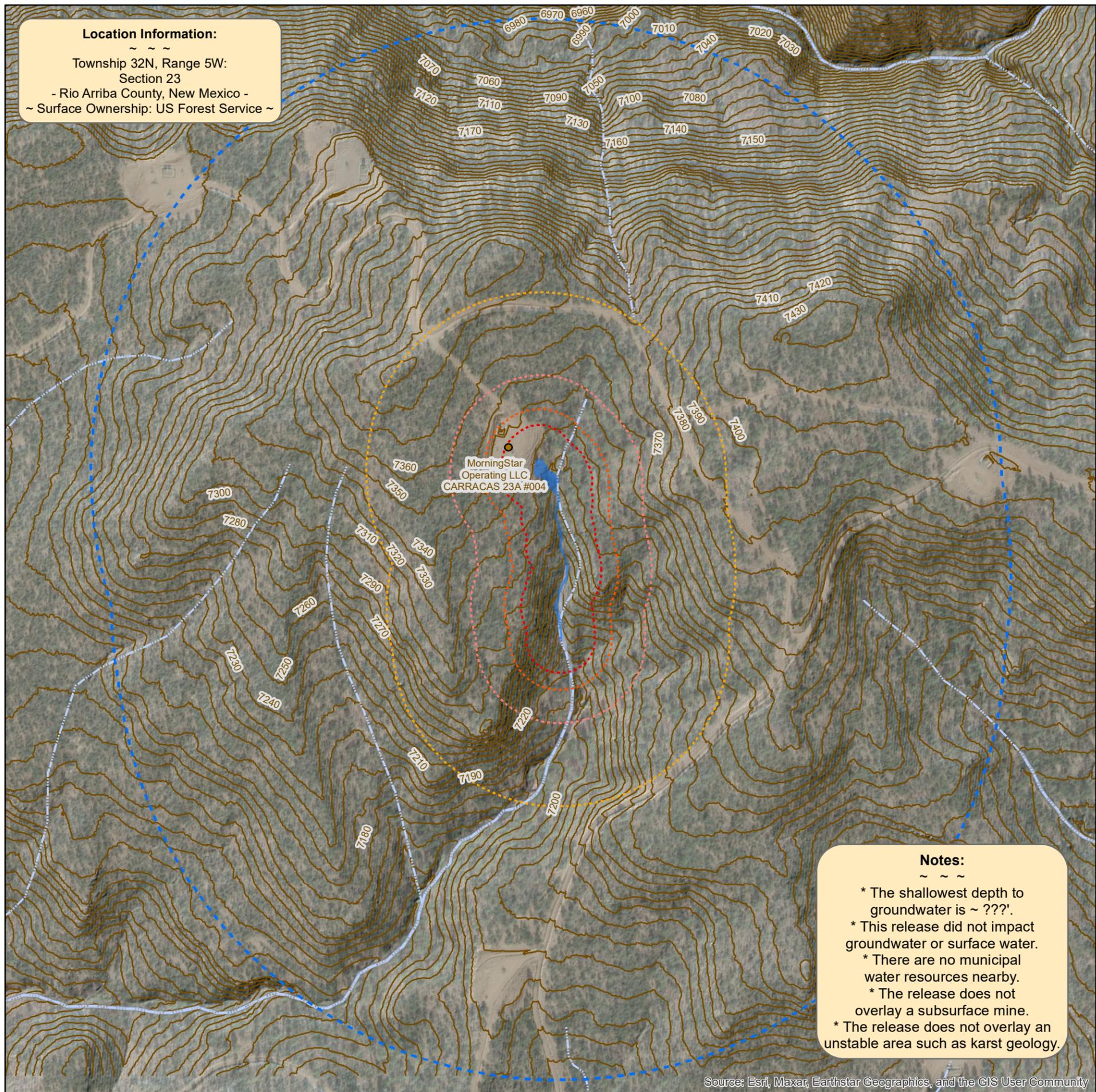


Morningstar Operating LLC

Carracas 23A #004 Well



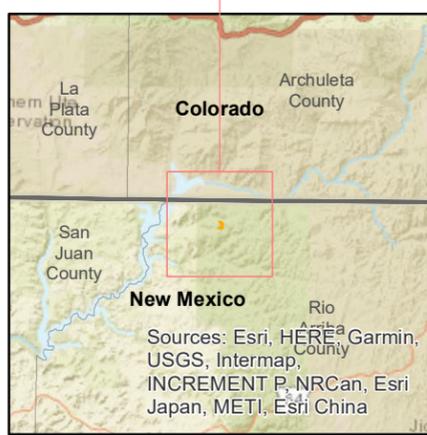
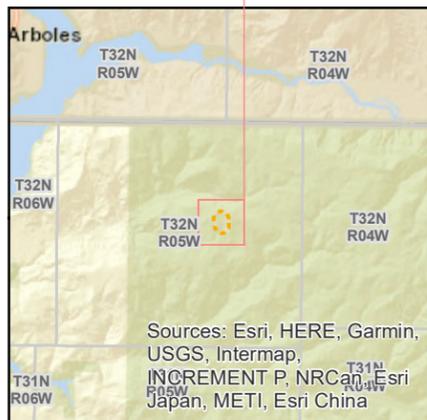
-- Spill Area Map --



Location Information:
 ~ ~ ~
 Township 32N, Range 5W:
 Section 23
 - Rio Arriba County, New Mexico -
 ~ Surface Ownership: US Forest Service ~

Notes:
 ~ ~ ~
 * The shallowest depth to groundwater is ~ ???'.
 * This release did not impact groundwater or surface water.
 * There are no municipal water resources nearby.
 * The release does not overlay a subsurface mine.
 * The release does not overlay an unstable area such as karst geology.

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

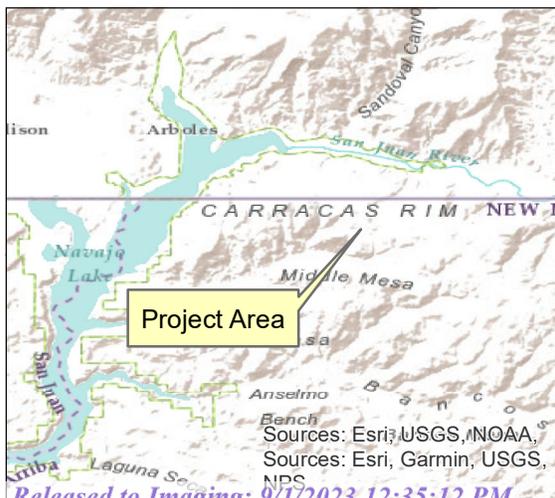


Draft

- Morningstar Carracas 23A #004 Well:**
 - @ 36.970097, -107.336662
- Carracas 23A #004 Spill Flow Path**
- Ephemeral Stream (NHD)**
- Watercourse (NHD):**
 - None Within 300'
- Waterbody (NHD):**
 - None Within 200'
- 100-year Flood Zone (FEMA):**
 - None Within Spill Area
- Water "Point of Diversion":**
 - None Within 500'
- Water Well:**
 - None Within 1000'
- Structure:**
 - None Within 300'
- 10' Contour**
- 1/2 Mile Flow Path Buffer**
- 1000' Flow Path Buffer**
- 500' Flow Path Buffer**
- 300' Flow Path Buffer**
- 200' Flow Path Buffer**



Carracus 23A #004 Soil Sampling Plots



Legend

Flow Path with 400 sq. ft Sampling Sections

Operator:

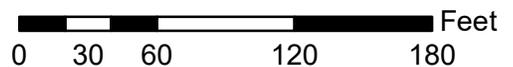


MORNINGSTAR PARTNERS

Contractor:



1:1,000



NAD 1983 UTM Zone 13N

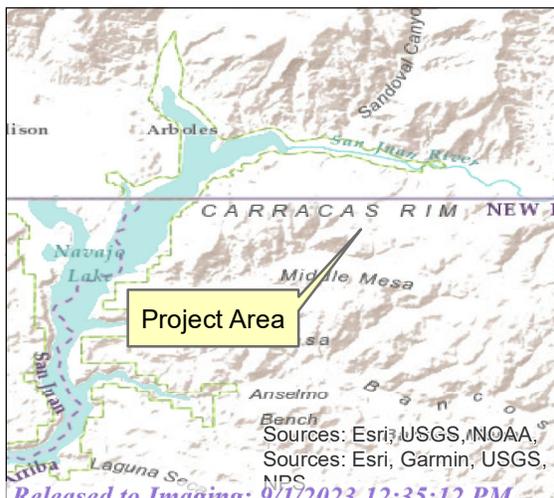
Author: TP (EIS - LLC)

Date: 12/8/2022

Carracus 23A #004 Soil Sampling Plots



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Released to Imaging: 9/1/2023 12:35:12 PM

Legend

 Flow Path with 400 sq. ft. Sampling Sections

Operator:

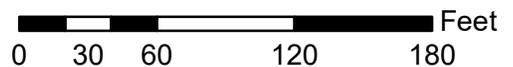


MORNINGSTAR PARTNERS

Contractor:



1:1,000



NAD 1983 UTM Zone 13N

Author: TP (EIS - LLC)

Date: 12/8/2022

Attachment III – Soil Sample Results

SAMPLE NAME	LABSAMPID	MATRIX	SAMPDATE	METHODCODE	ANALYTE	RESULT	RL	Units
Carracas Control 1	2305061-53	Solid	5/3/2023 8:45:00 AM	Percent Solids	% Dry Solids	90.3		%
Carracas Control 2	2305061-54	Solid	5/3/2023 8:52:00 AM	Percent Solids	% Dry Solids	90.1		%
Carracas Control 3	2305061-55	Solid	5/3/2023 8:57:00 AM	Percent Solids	% Dry Solids	89.6		%
Carracas Control 4	2305061-56	Solid	5/3/2023 9:15:00 AM	Percent Solids	% Dry Solids	91.3		%
Carracas Plot 1	2305061-78	Solid	5/3/2023 2:46:00 PM	Percent Solids	% Dry Solids	88.8		%
Carracas Plot 2	2305061-77	Solid	5/3/2023 2:32:00 PM	Percent Solids	% Dry Solids	87.5		%
Carracas Plot 3	2305061-76	Solid	5/3/2023 2:21:00 PM	Percent Solids	% Dry Solids	87.8		%
Carracas Plot 4	2305061-75	Solid	5/3/2023 2:04:00 PM	Percent Solids	% Dry Solids	9.88		%
Carracas Plot 5	2305061-74	Solid	5/3/2023 1:56:00 PM	Percent Solids	% Dry Solids	82.3		%
Carracas Plot 6	2305061-73	Solid	5/3/2023 2:15:00 PM	Percent Solids	% Dry Solids	85.4		%
Carracas Plot 7	2305061-72	Solid	5/3/2023 1:47:00 PM	Percent Solids	% Dry Solids	90.2		%
Carracas Plot 8	2305061-71	Solid	5/3/2023 1:37:00 PM	Percent Solids	% Dry Solids	89.6		%
Carracas Plot 9	2305061-70	Solid	5/3/2023 1:32:00 PM	Percent Solids	% Dry Solids	91.2		%
Carracas Plot 10	2305061-69	Solid	5/3/2023 1:20:00 PM	Percent Solids	% Dry Solids	82.6		%
Carracas Plot 11	2305061-68	Solid	5/3/2023 1:07:00 PM	Percent Solids	% Dry Solids	81.8		%
Carracas Plot 12	2305061-67	Solid	5/3/2023 12:58:00 PM	Percent Solids	% Dry Solids	86.2		%
Carracas Plot 13	2305061-66	Solid	5/3/2023 12:44:00 PM	Percent Solids	% Dry Solids	81.3		%
Carracas Plot 14	2305061-65	Solid	5/3/2023 12:26:00 PM	Percent Solids	% Dry Solids	87.8		%
Carracas Plot 15	2305061-64	Solid	5/3/2023 12:14:00 PM	Percent Solids	% Dry Solids	90.6		%
Carracas Plot 16	2305061-63	Solid	5/3/2023 11:56:00 AM	Percent Solids	% Dry Solids	90.4		%
Carracas Plot 17	2305061-62	Solid	5/3/2023 11:40:00 AM	Percent Solids	% Dry Solids	82.4		%
Carracas Plot 18	2305061-61	Solid	5/3/2023 11:26:00 AM	Percent Solids	% Dry Solids	90.8		%
Carracas Plot 19	2305061-60	Solid	5/3/2023 10:43:00 AM	Percent Solids	% Dry Solids	89.5		%
Carracas Plot 20	2305061-59	Solid	5/3/2023 10:16:00 AM	Percent Solids	% Dry Solids	91.0		%
Carracas Plot 21	2305061-58	Solid	5/3/2023 9:53:00 AM	Percent Solids	% Dry Solids	91.3		%
Carracas Plot 22	2305061-57	Solid	5/3/2023 9:30:00 AM	Percent Solids	% Dry Solids	90.3		%

SAMPLE NAME	LABSAMPID	MATRIX	SAMPDATE	METHODCODE	ANALYTE	RESULT	RL	Units
Carracas Control 1	2305061-53	Solid	5/3/2023 8:45:00 AM	Chloride by IC	Chloride	ND	11.1	mg/kg dry
Carracas Control 2	2305061-54	Solid	5/3/2023 8:52:00 AM	Chloride by IC	Chloride	ND	11.1	mg/kg dry
Carracas Control 3	2305061-55	Solid	5/3/2023 8:57:00 AM	Chloride by IC	Chloride	ND	11.2	mg/kg dry
Carracas Control 4	2305061-56	Solid	5/3/2023 9:15:00 AM	Chloride by IC	Chloride	ND	11.0	mg/kg dry
Carracas Plot 1	2305061-78	Solid	5/3/2023 2:46:00 PM	Chloride by IC	Chloride	ND	11.3	mg/kg dry
Carracas Plot 2	2305061-77	Solid	5/3/2023 2:32:00 PM	Chloride by IC	Chloride	ND	11.4	mg/kg dry
Carracas Plot 3	2305061-76	Solid	5/3/2023 2:21:00 PM	Chloride by IC	Chloride	ND	11.4	mg/kg dry
Carracas Plot 4	2305061-75	Solid	5/3/2023 2:04:00 PM	Chloride by IC	Chloride	ND	101	mg/kg dry
Carracas Plot 5	2305061-74	Solid	5/3/2023 1:56:00 PM	Chloride by IC	Chloride	ND	12.2	mg/kg dry
Carracas Plot 6	2305061-73	Solid	5/3/2023 2:15:00 PM	Chloride by IC	Chloride	ND	11.7	mg/kg dry
Carracas Plot 7	2305061-72	Solid	5/3/2023 1:47:00 PM	Chloride by IC	Chloride	ND	11.1	mg/kg dry
Carracas Plot 8	2305061-71	Solid	5/3/2023 1:37:00 PM	Chloride by IC	Chloride	ND	11.2	mg/kg dry
Carracas Plot 9	2305061-70	Solid	5/3/2023 1:32:00 PM	Chloride by IC	Chloride	13.8	11.0	mg/kg dry
Carracas Plot 10	2305061-69	Solid	5/3/2023 1:20:00 PM	Chloride by IC	Chloride	ND	12.1	mg/kg dry
Carracas Plot 11	2305061-68	Solid	5/3/2023 1:07:00 PM	Chloride by IC	Chloride	ND	12.2	mg/kg dry
Carracas Plot 12	2305061-67	Solid	5/3/2023 12:58:00 PM	Chloride by IC	Chloride	ND	11.6	mg/kg dry
Carracas Plot 13	2305061-66	Solid	5/3/2023 12:44:00 PM	Chloride by IC	Chloride	ND	12.3	mg/kg dry
Carracas Plot 14	2305061-65	Solid	5/3/2023 12:26:00 PM	Chloride by IC	Chloride	ND	11.4	mg/kg dry
Carracas Plot 15	2305061-64	Solid	5/3/2023 12:14:00 PM	Chloride by IC	Chloride	ND	11.0	mg/kg dry
Carracas Plot 16	2305061-63	Solid	5/3/2023 11:56:00 AM	Chloride by IC	Chloride	ND	11.1	mg/kg dry
Carracas Plot 17	2305061-62	Solid	5/3/2023 11:40:00 AM	Chloride by IC	Chloride	ND	12.1	mg/kg dry
Carracas Plot 18	2305061-61	Solid	5/3/2023 11:26:00 AM	Chloride by IC	Chloride	ND	11.0	mg/kg dry
Carracas Plot 19	2305061-60	Solid	5/3/2023 10:43:00 AM	Chloride by IC	Chloride	ND	11.2	mg/kg dry
Carracas Plot 20	2305061-59	Solid	5/3/2023 10:16:00 AM	Chloride by IC	Chloride	ND	11.0	mg/kg dry
Carracas Plot 21	2305061-58	Solid	5/3/2023 9:53:00 AM	Chloride by IC	Chloride	ND	10.9	mg/kg dry
Carracas Plot 22	2305061-57	Solid	5/3/2023 9:30:00 AM	Chloride by IC	Chloride	ND	11.1	mg/kg dry

SAMPLE NAME	LABSAMPID	MATRIX	SAMPDATE	METHODCODE	ANALYTE	RESULT	RL	Units
Carracas Control 1-1	2305061-49	Solid	5/3/2023 8:45:00 AM	BTEX 8260B	Total BTEX	ND	0.150	mg/kg
Carracas Control 2-1	2305061-51	Solid	5/3/2023 8:52:00 AM	BTEX 8260B	Total BTEX	ND	0.150	mg/kg
Carracas Control 3-1	2305061-45	Solid	5/3/2023 8:57:00 AM	BTEX 8260B	Total BTEX	ND	0.150	mg/kg
Carracas Control 4-1	2305061-47	Solid	5/3/2023 9:15:00 AM	BTEX 8260B	Total BTEX	ND	0.150	mg/kg
Carracas Plot 1-1	2305061-01	Solid	5/3/2023 2:41:00 PM	BTEX 8260B	Total BTEX	ND	0.150	mg/kg
Carracas Plot 2-1	2305061-03	Solid	5/3/2023 2:32:00 PM	BTEX 8260B	Total BTEX	ND	0.150	mg/kg
Carracas Plot 3-1	2305061-05	Solid	5/3/2023 2:21:00 PM	BTEX 8260B	Total BTEX	ND	0.150	mg/kg
Carracas Plot 4-1	2305061-07	Solid	5/3/2023 2:04:00 PM	BTEX 8260B	Total BTEX	ND	0.150	mg/kg
Carracas Plot 5-1	2305061-09	Solid	5/3/2023 1:56:00 PM	BTEX 8260B	Total BTEX	ND	0.150	mg/kg
Carracas Plot 6-1	2305061-11	Solid	5/3/2023 2:15:00 PM	BTEX 8260B	Total BTEX	ND	0.150	mg/kg
Carracas Plot 7-1	2305061-13	Solid	5/3/2023 1:47:00 PM	BTEX 8260B	Total BTEX	ND	0.150	mg/kg
Carracas Plot 8-1	2305061-15	Solid	5/3/2023 1:37:00 PM	BTEX 8260B	Total BTEX	0.626	0.150	mg/kg
Carracas Plot 9-1	2305061-17	Solid	5/3/2023 1:32:00 PM	BTEX 8260B	Total BTEX	ND	0.150	mg/kg
Carracas Plot 10-1	2305061-19	Solid	5/3/2023 1:20:00 PM	BTEX 8260B	Total BTEX	ND	0.150	mg/kg
Carracas Plot 11-1	2305061-21	Solid	5/3/2023 1:07:00 PM	BTEX 8260B	Total BTEX	ND	0.150	mg/kg
Carracas Plot 12-1	2305061-23	Solid	5/3/2023 12:58:00 PM	BTEX 8260B	Total BTEX	ND	0.150	mg/kg
Carracas Plot 13-1	2305061-25	Solid	5/3/2023 12:44:00 PM	BTEX 8260B	Total BTEX	ND	0.150	mg/kg
Carracas Plot 14-1	2305061-27	Solid	5/3/2023 12:26:00 PM	BTEX 8260B	Total BTEX	ND	0.150	mg/kg
Carracas Plot 15-1	2305061-29	Solid	5/3/2023 12:14:00 PM	BTEX 8260B	Total BTEX	ND	0.150	mg/kg
Carracas Plot 16-1	2305061-31	Solid	5/3/2023 11:56:00 AM	BTEX 8260B	Total BTEX	2.37	0.150	mg/kg
Carracas Plot 17-1	2305061-33	Solid	5/3/2023 11:40:00 AM	BTEX 8260B	Total BTEX	ND	0.150	mg/kg
Carracas Plot 18-1	2305061-35	Solid	5/3/2023 11:26:00 AM	BTEX 8260B	Total BTEX	0.159	0.150	mg/kg
Carracas Plot 19-1	2305061-37	Solid	5/3/2023 10:43:00 AM	BTEX 8260B	Total BTEX	ND	0.150	mg/kg
Carracas Plot 20-1	2305061-39	Solid	5/3/2023 10:16:00 AM	BTEX 8260B	Total BTEX	ND	0.150	mg/kg
Carracas Plot 21-1	2305061-41	Solid	5/3/2023 9:53:00 AM	BTEX 8260B	Total BTEX	0.188	0.150	mg/kg
Carracas Plot 22-1	2305061-43	Solid	5/3/2023 9:30:00 AM	BTEX 8260B	Total BTEX	ND	0.150	mg/kg

SAMPLE NAME	LABSAMPID	MATRIX	SAMPDATE	METHODCODE	ANALYTE	RESULT	RL	Units
Carracas Control 1-1	2305061-49	Solid	5/3/2023 8:45:00 AM	BTEX 8260B	Benzene	ND	0.025	mg/kg
Carracas Control 2-1	2305061-51	Solid	5/3/2023 8:52:00 AM	BTEX 8260B	Benzene	ND	0.025	mg/kg
Carracas Control 3-1	2305061-45	Solid	5/3/2023 8:57:00 AM	BTEX 8260B	Benzene	ND	0.025	mg/kg
Carracas Control 4-1	2305061-47	Solid	5/3/2023 9:15:00 AM	BTEX 8260B	Benzene	ND	0.025	mg/kg
Carracas Plot 1-1	2305061-01	Solid	5/3/2023 2:41:00 PM	BTEX 8260B	Benzene	ND	0.025	mg/kg
Carracas Plot 2-1	2305061-03	Solid	5/3/2023 2:32:00 PM	BTEX 8260B	Benzene	ND	0.025	mg/kg
Carracas Plot 3-1	2305061-05	Solid	5/3/2023 2:21:00 PM	BTEX 8260B	Benzene	ND	0.025	mg/kg
Carracas Plot 4-1	2305061-07	Solid	5/3/2023 2:04:00 PM	BTEX 8260B	Benzene	ND	0.025	mg/kg
Carracas Plot 5-1	2305061-09	Solid	5/3/2023 1:56:00 PM	BTEX 8260B	Benzene	ND	0.025	mg/kg
Carracas Plot 6-1	2305061-11	Solid	5/3/2023 2:15:00 PM	BTEX 8260B	Benzene	ND	0.025	mg/kg
Carracas Plot 7-1	2305061-13	Solid	5/3/2023 1:47:00 PM	BTEX 8260B	Benzene	ND	0.025	mg/kg
Carracas Plot 8-1	2305061-15	Solid	5/3/2023 1:37:00 PM	BTEX 8260B	Benzene	ND	0.025	mg/kg
Carracas Plot 9-1	2305061-17	Solid	5/3/2023 1:32:00 PM	BTEX 8260B	Benzene	ND	0.025	mg/kg
Carracas Plot 10-1	2305061-19	Solid	5/3/2023 1:20:00 PM	BTEX 8260B	Benzene	ND	0.025	mg/kg
Carracas Plot 11-1	2305061-21	Solid	5/3/2023 1:07:00 PM	BTEX 8260B	Benzene	ND	0.025	mg/kg
Carracas Plot 12-1	2305061-23	Solid	5/3/2023 12:58:00 PM	BTEX 8260B	Benzene	ND	0.025	mg/kg
Carracas Plot 13-1	2305061-25	Solid	5/3/2023 12:44:00 PM	BTEX 8260B	Benzene	ND	0.025	mg/kg
Carracas Plot 14-1	2305061-27	Solid	5/3/2023 12:26:00 PM	BTEX 8260B	Benzene	ND	0.025	mg/kg
Carracas Plot 15-1	2305061-29	Solid	5/3/2023 12:14:00 PM	BTEX 8260B	Benzene	ND	0.025	mg/kg
Carracas Plot 16-1	2305061-31	Solid	5/3/2023 11:56:00 AM	BTEX 8260B	Benzene	0.071	0.025	mg/kg
Carracas Plot 17-1	2305061-33	Solid	5/3/2023 11:40:00 AM	BTEX 8260B	Benzene	ND	0.025	mg/kg
Carracas Plot 18-1	2305061-35	Solid	5/3/2023 11:26:00 AM	BTEX 8260B	Benzene	ND	0.025	mg/kg
Carracas Plot 19-1	2305061-37	Solid	5/3/2023 10:43:00 AM	BTEX 8260B	Benzene	ND	0.025	mg/kg
Carracas Plot 20-1	2305061-39	Solid	5/3/2023 10:16:00 AM	BTEX 8260B	Benzene	ND	0.025	mg/kg
Carracas Plot 21-1	2305061-41	Solid	5/3/2023 9:53:00 AM	BTEX 8260B	Benzene	ND	0.025	mg/kg
Carracas Plot 22-1	2305061-43	Solid	5/3/2023 9:30:00 AM	BTEX 8260B	Benzene	ND	0.025	mg/kg

SAMPLE NAME	LABSAMPID	MATRIX	SAMPDATE	METHODCODE	ANALYTE	RESULT	RL	Units
Carracas Control 1-1	2305061-49	Solid	5/3/2023 8:45:00 AM	BTEX 8260B	Ethylbenzene	ND	0.025	mg/kg
Carracas Control 2-1	2305061-51	Solid	5/3/2023 8:52:00 AM	BTEX 8260B	Ethylbenzene	ND	0.025	mg/kg
Carracas Control 3-1	2305061-45	Solid	5/3/2023 8:57:00 AM	BTEX 8260B	Ethylbenzene	ND	0.025	mg/kg
Carracas Control 4-1	2305061-47	Solid	5/3/2023 9:15:00 AM	BTEX 8260B	Ethylbenzene	ND	0.025	mg/kg
Carracas Plot 1-1	2305061-01	Solid	5/3/2023 2:41:00 PM	BTEX 8260B	Ethylbenzene	ND	0.025	mg/kg
Carracas Plot 2-1	2305061-03	Solid	5/3/2023 2:32:00 PM	BTEX 8260B	Ethylbenzene	ND	0.025	mg/kg
Carracas Plot 3-1	2305061-05	Solid	5/3/2023 2:21:00 PM	BTEX 8260B	Ethylbenzene	ND	0.025	mg/kg
Carracas Plot 4-1	2305061-07	Solid	5/3/2023 2:04:00 PM	BTEX 8260B	Ethylbenzene	ND	0.025	mg/kg
Carracas Plot 5-1	2305061-09	Solid	5/3/2023 1:56:00 PM	BTEX 8260B	Ethylbenzene	ND	0.025	mg/kg
Carracas Plot 6-1	2305061-11	Solid	5/3/2023 2:15:00 PM	BTEX 8260B	Ethylbenzene	ND	0.025	mg/kg
Carracas Plot 7-1	2305061-13	Solid	5/3/2023 1:47:00 PM	BTEX 8260B	Ethylbenzene	ND	0.025	mg/kg
Carracas Plot 8-1	2305061-15	Solid	5/3/2023 1:37:00 PM	BTEX 8260B	Ethylbenzene	ND	0.025	mg/kg
Carracas Plot 9-1	2305061-17	Solid	5/3/2023 1:32:00 PM	BTEX 8260B	Ethylbenzene	ND	0.025	mg/kg
Carracas Plot 10-1	2305061-19	Solid	5/3/2023 1:20:00 PM	BTEX 8260B	Ethylbenzene	ND	0.025	mg/kg
Carracas Plot 11-1	2305061-21	Solid	5/3/2023 1:07:00 PM	BTEX 8260B	Ethylbenzene	ND	0.025	mg/kg
Carracas Plot 12-1	2305061-23	Solid	5/3/2023 12:58:00 PM	BTEX 8260B	Ethylbenzene	ND	0.025	mg/kg
Carracas Plot 13-1	2305061-25	Solid	5/3/2023 12:44:00 PM	BTEX 8260B	Ethylbenzene	ND	0.025	mg/kg
Carracas Plot 14-1	2305061-27	Solid	5/3/2023 12:26:00 PM	BTEX 8260B	Ethylbenzene	ND	0.025	mg/kg
Carracas Plot 15-1	2305061-29	Solid	5/3/2023 12:14:00 PM	BTEX 8260B	Ethylbenzene	ND	0.025	mg/kg
Carracas Plot 16-1	2305061-31	Solid	5/3/2023 11:56:00 AM	BTEX 8260B	Ethylbenzene	0.097	0.025	mg/kg
Carracas Plot 17-1	2305061-33	Solid	5/3/2023 11:40:00 AM	BTEX 8260B	Ethylbenzene	ND	0.025	mg/kg
Carracas Plot 18-1	2305061-35	Solid	5/3/2023 11:26:00 AM	BTEX 8260B	Ethylbenzene	ND	0.025	mg/kg
Carracas Plot 19-1	2305061-37	Solid	5/3/2023 10:43:00 AM	BTEX 8260B	Ethylbenzene	ND	0.025	mg/kg
Carracas Plot 20-1	2305061-39	Solid	5/3/2023 10:16:00 AM	BTEX 8260B	Ethylbenzene	ND	0.025	mg/kg
Carracas Plot 21-1	2305061-41	Solid	5/3/2023 9:53:00 AM	BTEX 8260B	Ethylbenzene	ND	0.025	mg/kg
Carracas Plot 22-1	2305061-43	Solid	5/3/2023 9:30:00 AM	BTEX 8260B	Ethylbenzene	ND	0.025	mg/kg

SAMPLE NAME	LABSAMPID	MATRIX	SAMPDATE	METHODCODE	ANALYTE	RESULT	RL	Units
Carracas Control 1-2	2305061-50	Solid	5/3/2023 8:45:00 AM	TPH 8015M	DRO >C10-C28	ND	10.0	mg/kg
Carracas Control 2-2	2305061-52	Solid	5/3/2023 8:52:00 AM	TPH 8015M	DRO >C10-C28	ND	10.0	mg/kg
Carracas Control 3-2	2305061-46	Solid	5/3/2023 8:57:00 AM	TPH 8015M	DRO >C10-C28	ND	10.0	mg/kg
Carracas Control 4-2	2305061-48	Solid	5/3/2023 9:15:00 AM	TPH 8015M	DRO >C10-C28	ND	10.0	mg/kg
Carracas Plot 1-2	2305061-02	Solid	5/3/2023 2:41:00 PM	TPH 8015M	DRO >C10-C28	ND	10.0	mg/kg
Carracas Plot 2-2	2305061-04	Solid	5/3/2023 2:32:00 PM	TPH 8015M	DRO >C10-C28	ND	10.0	mg/kg
Carracas Plot 3-2	2305061-06	Solid	5/3/2023 2:21:00 PM	TPH 8015M	DRO >C10-C28	ND	10.0	mg/kg
Carracas Plot 4-2	2305061-08	Solid	5/3/2023 2:04:00 PM	TPH 8015M	DRO >C10-C28	ND	10.0	mg/kg
Carracas Plot 5-2	2305061-10	Solid	5/3/2023 1:56:00 PM	TPH 8015M	DRO >C10-C28	ND	10.0	mg/kg
Carracas Plot 6-2	2305061-12	Solid	5/3/2023 2:15:00 PM	TPH 8015M	DRO >C10-C28	ND	10.0	mg/kg
Carracas Plot 7-2	2305061-14	Solid	5/3/2023 1:47:00 PM	TPH 8015M	DRO >C10-C28	ND	10.0	mg/kg
Carracas Plot 8-2	2305061-16	Solid	5/3/2023 1:37:00 PM	TPH 8015M	DRO >C10-C28	ND	10.0	mg/kg
Carracas Plot 9-2	2305061-18	Solid	5/3/2023 1:32:00 PM	TPH 8015M	DRO >C10-C28	ND	10.0	mg/kg
Carracas Plot 10-2	2305061-20	Solid	5/3/2023 1:20:00 PM	TPH 8015M	DRO >C10-C28	ND	10.0	mg/kg
Carracas Plot 11-2	2305061-22	Solid	5/3/2023 1:07:00 PM	TPH 8015M	DRO >C10-C28	ND	10.0	mg/kg
Carracas Plot 12-2	2305061-24	Solid	5/3/2023 12:58:00 PM	TPH 8015M	DRO >C10-C28	ND	10.0	mg/kg
Carracas Plot 13-2	2305061-26	Solid	5/3/2023 12:44:00 PM	TPH 8015M	DRO >C10-C28	ND	10.0	mg/kg
Carracas Plot 14-2	2305061-28	Solid	5/3/2023 12:26:00 PM	TPH 8015M	DRO >C10-C28	ND	10.0	mg/kg
Carracas Plot 15-2	2305061-30	Solid	5/3/2023 12:14:00 PM	TPH 8015M	DRO >C10-C28	ND	10.0	mg/kg
Carracas Plot 16-2	2305061-32	Solid	5/3/2023 11:56:00 AM	TPH 8015M	DRO >C10-C28	19.3	10.0	mg/kg
Carracas Plot 17-2	2305061-34	Solid	5/3/2023 11:40:00 AM	TPH 8015M	DRO >C10-C28	ND	10.0	mg/kg
Carracas Plot 18-2	2305061-36	Solid	5/3/2023 11:26:00 AM	TPH 8015M	DRO >C10-C28	ND	10.0	mg/kg
Carracas Plot 19-2	2305061-38	Solid	5/3/2023 10:43:00 AM	TPH 8015M	DRO >C10-C28	ND	10.0	mg/kg
Carracas Plot 20-2	2305061-40	Solid	5/3/2023 10:16:00 AM	TPH 8015M	DRO >C10-C28	39.2	10.0	mg/kg
Carracas Plot 21-2	2305061-42	Solid	5/3/2023 9:53:00 AM	TPH 8015M	DRO >C10-C28	11.4	10.0	mg/kg
Carracas Plot 22-2	2305061-44	Solid	5/3/2023 9:30:00 AM	TPH 8015M	DRO >C10-C28	ND	10.0	mg/kg

SAMPLE NAME	LABSAMPID	MATRIX	SAMPDATE	METHODCODE	ANALYTE	RESULT	RL	Units
Carracas Control 1-2	2305061-50	Solid	5/3/2023 8:45:00 AM	TPH 8015M	GRO C6-C10	ND	10.0	mg/kg
Carracas Control 2-2	2305061-52	Solid	5/3/2023 8:52:00 AM	TPH 8015M	GRO C6-C10	ND	10.0	mg/kg
Carracas Control 3-2	2305061-46	Solid	5/3/2023 8:57:00 AM	TPH 8015M	GRO C6-C10	ND	10.0	mg/kg
Carracas Control 4-2	2305061-48	Solid	5/3/2023 9:15:00 AM	TPH 8015M	GRO C6-C10	ND	10.0	mg/kg
Carracas Plot 1-2	2305061-02	Solid	5/3/2023 2:41:00 PM	TPH 8015M	GRO C6-C10	ND	10.0	mg/kg
Carracas Plot 2-2	2305061-04	Solid	5/3/2023 2:32:00 PM	TPH 8015M	GRO C6-C10	ND	10.0	mg/kg
Carracas Plot 3-2	2305061-06	Solid	5/3/2023 2:21:00 PM	TPH 8015M	GRO C6-C10	ND	10.0	mg/kg
Carracas Plot 4-2	2305061-08	Solid	5/3/2023 2:04:00 PM	TPH 8015M	GRO C6-C10	ND	10.0	mg/kg
Carracas Plot 5-2	2305061-10	Solid	5/3/2023 1:56:00 PM	TPH 8015M	GRO C6-C10	ND	10.0	mg/kg
Carracas Plot 6-2	2305061-12	Solid	5/3/2023 2:15:00 PM	TPH 8015M	GRO C6-C10	ND	10.0	mg/kg
Carracas Plot 7-2	2305061-14	Solid	5/3/2023 1:47:00 PM	TPH 8015M	GRO C6-C10	ND	10.0	mg/kg
Carracas Plot 8-2	2305061-16	Solid	5/3/2023 1:37:00 PM	TPH 8015M	GRO C6-C10	ND	10.0	mg/kg
Carracas Plot 9-2	2305061-18	Solid	5/3/2023 1:32:00 PM	TPH 8015M	GRO C6-C10	ND	10.0	mg/kg
Carracas Plot 10-2	2305061-20	Solid	5/3/2023 1:20:00 PM	TPH 8015M	GRO C6-C10	ND	10.0	mg/kg
Carracas Plot 11-2	2305061-22	Solid	5/3/2023 1:07:00 PM	TPH 8015M	GRO C6-C10	ND	10.0	mg/kg
Carracas Plot 12-2	2305061-24	Solid	5/3/2023 12:58:00 PM	TPH 8015M	GRO C6-C10	ND	10.0	mg/kg
Carracas Plot 13-2	2305061-26	Solid	5/3/2023 12:44:00 PM	TPH 8015M	GRO C6-C10	ND	10.0	mg/kg
Carracas Plot 14-2	2305061-28	Solid	5/3/2023 12:26:00 PM	TPH 8015M	GRO C6-C10	ND	10.0	mg/kg
Carracas Plot 15-2	2305061-30	Solid	5/3/2023 12:14:00 PM	TPH 8015M	GRO C6-C10	ND	10.0	mg/kg
Carracas Plot 16-2	2305061-32	Solid	5/3/2023 11:56:00 AM	TPH 8015M	GRO C6-C10	10.6	10.0	mg/kg
Carracas Plot 17-2	2305061-34	Solid	5/3/2023 11:40:00 AM	TPH 8015M	GRO C6-C10	ND	10.0	mg/kg
Carracas Plot 18-2	2305061-36	Solid	5/3/2023 11:26:00 AM	TPH 8015M	GRO C6-C10	ND	10.0	mg/kg
Carracas Plot 19-2	2305061-38	Solid	5/3/2023 10:43:00 AM	TPH 8015M	GRO C6-C10	ND	10.0	mg/kg
Carracas Plot 20-2	2305061-40	Solid	5/3/2023 10:16:00 AM	TPH 8015M	GRO C6-C10	ND	10.0	mg/kg
Carracas Plot 21-2	2305061-42	Solid	5/3/2023 9:53:00 AM	TPH 8015M	GRO C6-C10	ND	10.0	mg/kg
Carracas Plot 22-2	2305061-44	Solid	5/3/2023 9:30:00 AM	TPH 8015M	GRO C6-C10	ND	10.0	mg/kg

SAMPLE NAME	LABSAMPID	MATRIX	SAMPDATE	METHODCODE	ANALYTE	RESULT	RL	Units
Carracas Control 1-2	2305061-50	Solid	5/3/2023 8:45:00 AM	TPH 8015M	EXT DRO >C28-C36	ND	10.0	mg/kg
Carracas Control 2-2	2305061-52	Solid	5/3/2023 8:52:00 AM	TPH 8015M	EXT DRO >C28-C36	ND	10.0	mg/kg
Carracas Control 3-2	2305061-46	Solid	5/3/2023 8:57:00 AM	TPH 8015M	EXT DRO >C28-C36	ND	10.0	mg/kg
Carracas Control 4-2	2305061-48	Solid	5/3/2023 9:15:00 AM	TPH 8015M	EXT DRO >C28-C36	ND	10.0	mg/kg
Carracas Plot 1-2	2305061-02	Solid	5/3/2023 2:41:00 PM	TPH 8015M	EXT DRO >C28-C36	ND	10.0	mg/kg
Carracas Plot 2-2	2305061-04	Solid	5/3/2023 2:32:00 PM	TPH 8015M	EXT DRO >C28-C36	ND	10.0	mg/kg
Carracas Plot 3-2	2305061-06	Solid	5/3/2023 2:21:00 PM	TPH 8015M	EXT DRO >C28-C36	ND	10.0	mg/kg
Carracas Plot 4-2	2305061-08	Solid	5/3/2023 2:04:00 PM	TPH 8015M	EXT DRO >C28-C36	ND	10.0	mg/kg
Carracas Plot 5-2	2305061-10	Solid	5/3/2023 1:56:00 PM	TPH 8015M	EXT DRO >C28-C36	ND	10.0	mg/kg
Carracas Plot 6-2	2305061-12	Solid	5/3/2023 2:15:00 PM	TPH 8015M	EXT DRO >C28-C36	ND	10.0	mg/kg
Carracas Plot 7-2	2305061-14	Solid	5/3/2023 1:47:00 PM	TPH 8015M	EXT DRO >C28-C36	ND	10.0	mg/kg
Carracas Plot 8-2	2305061-16	Solid	5/3/2023 1:37:00 PM	TPH 8015M	EXT DRO >C28-C36	ND	10.0	mg/kg
Carracas Plot 9-2	2305061-18	Solid	5/3/2023 1:32:00 PM	TPH 8015M	EXT DRO >C28-C36	ND	10.0	mg/kg
Carracas Plot 10-2	2305061-20	Solid	5/3/2023 1:20:00 PM	TPH 8015M	EXT DRO >C28-C36	ND	10.0	mg/kg
Carracas Plot 11-2	2305061-22	Solid	5/3/2023 1:07:00 PM	TPH 8015M	EXT DRO >C28-C36	ND	10.0	mg/kg
Carracas Plot 12-2	2305061-24	Solid	5/3/2023 12:58:00 PM	TPH 8015M	EXT DRO >C28-C36	ND	10.0	mg/kg
Carracas Plot 13-2	2305061-26	Solid	5/3/2023 12:44:00 PM	TPH 8015M	EXT DRO >C28-C36	ND	10.0	mg/kg
Carracas Plot 14-2	2305061-28	Solid	5/3/2023 12:26:00 PM	TPH 8015M	EXT DRO >C28-C36	ND	10.0	mg/kg
Carracas Plot 15-2	2305061-30	Solid	5/3/2023 12:14:00 PM	TPH 8015M	EXT DRO >C28-C36	ND	10.0	mg/kg
Carracas Plot 16-2	2305061-32	Solid	5/3/2023 11:56:00 AM	TPH 8015M	EXT DRO >C28-C36	ND	10.0	mg/kg
Carracas Plot 17-2	2305061-34	Solid	5/3/2023 11:40:00 AM	TPH 8015M	EXT DRO >C28-C36	ND	10.0	mg/kg
Carracas Plot 18-2	2305061-36	Solid	5/3/2023 11:26:00 AM	TPH 8015M	EXT DRO >C28-C36	ND	10.0	mg/kg
Carracas Plot 19-2	2305061-38	Solid	5/3/2023 10:43:00 AM	TPH 8015M	EXT DRO >C28-C36	ND	10.0	mg/kg
Carracas Plot 20-2	2305061-40	Solid	5/3/2023 10:16:00 AM	TPH 8015M	EXT DRO >C28-C36	13.4	10.0	mg/kg
Carracas Plot 21-2	2305061-42	Solid	5/3/2023 9:53:00 AM	TPH 8015M	EXT DRO >C28-C36	ND	10.0	mg/kg
Carracas Plot 22-2	2305061-44	Solid	5/3/2023 9:30:00 AM	TPH 8015M	EXT DRO >C28-C36	ND	10.0	mg/kg

SAMPLE NAME	LABSAMPID	MATRIX	SAMPDATE	METHODCODE	ANALYTE	RESULT	RL	Units
Carracas Control 1-1	2305061-49	Solid	5/3/2023 8:45:00 AM	BTEX 8260B	Toluene	ND	0.025	mg/kg
Carracas Control 2-1	2305061-51	Solid	5/3/2023 8:52:00 AM	BTEX 8260B	Toluene	ND	0.025	mg/kg
Carracas Control 3-1	2305061-45	Solid	5/3/2023 8:57:00 AM	BTEX 8260B	Toluene	ND	0.025	mg/kg
Carracas Control 4-1	2305061-47	Solid	5/3/2023 9:15:00 AM	BTEX 8260B	Toluene	ND	0.025	mg/kg
Carracas Plot 1-1	2305061-01	Solid	5/3/2023 2:41:00 PM	BTEX 8260B	Toluene	0.039	0.025	mg/kg
Carracas Plot 2-1	2305061-03	Solid	5/3/2023 2:32:00 PM	BTEX 8260B	Toluene	ND	0.025	mg/kg
Carracas Plot 3-1	2305061-05	Solid	5/3/2023 2:21:00 PM	BTEX 8260B	Toluene	ND	0.025	mg/kg
Carracas Plot 4-1	2305061-07	Solid	5/3/2023 2:04:00 PM	BTEX 8260B	Toluene	ND	0.025	mg/kg
Carracas Plot 5-1	2305061-09	Solid	5/3/2023 1:56:00 PM	BTEX 8260B	Toluene	0.026	0.025	mg/kg
Carracas Plot 6-1	2305061-11	Solid	5/3/2023 2:15:00 PM	BTEX 8260B	Toluene	ND	0.025	mg/kg
Carracas Plot 7-1	2305061-13	Solid	5/3/2023 1:47:00 PM	BTEX 8260B	Toluene	ND	0.025	mg/kg
Carracas Plot 8-1	2305061-15	Solid	5/3/2023 1:37:00 PM	BTEX 8260B	Toluene	ND	0.025	mg/kg
Carracas Plot 9-1	2305061-17	Solid	5/3/2023 1:32:00 PM	BTEX 8260B	Toluene	0.037	0.025	mg/kg
Carracas Plot 10-1	2305061-19	Solid	5/3/2023 1:20:00 PM	BTEX 8260B	Toluene	ND	0.025	mg/kg
Carracas Plot 11-1	2305061-21	Solid	5/3/2023 1:07:00 PM	BTEX 8260B	Toluene	ND	0.025	mg/kg
Carracas Plot 12-1	2305061-23	Solid	5/3/2023 12:58:00 PM	BTEX 8260B	Toluene	ND	0.025	mg/kg
Carracas Plot 13-1	2305061-25	Solid	5/3/2023 12:44:00 PM	BTEX 8260B	Toluene	ND	0.025	mg/kg
Carracas Plot 14-1	2305061-27	Solid	5/3/2023 12:26:00 PM	BTEX 8260B	Toluene	0.035	0.025	mg/kg
Carracas Plot 15-1	2305061-29	Solid	5/3/2023 12:14:00 PM	BTEX 8260B	Toluene	ND	0.025	mg/kg
Carracas Plot 16-1	2305061-31	Solid	5/3/2023 11:56:00 AM	BTEX 8260B	Toluene	0.787	0.025	mg/kg
Carracas Plot 17-1	2305061-33	Solid	5/3/2023 11:40:00 AM	BTEX 8260B	Toluene	ND	0.025	mg/kg
Carracas Plot 18-1	2305061-35	Solid	5/3/2023 11:26:00 AM	BTEX 8260B	Toluene	0.065	0.025	mg/kg
Carracas Plot 19-1	2305061-37	Solid	5/3/2023 10:43:00 AM	BTEX 8260B	Toluene	ND	0.025	mg/kg
Carracas Plot 20-1	2305061-39	Solid	5/3/2023 10:16:00 AM	BTEX 8260B	Toluene	ND	0.025	mg/kg
Carracas Plot 21-1	2305061-41	Solid	5/3/2023 9:53:00 AM	BTEX 8260B	Toluene	0.061	0.025	mg/kg
Carracas Plot 22-1	2305061-43	Solid	5/3/2023 9:30:00 AM	BTEX 8260B	Toluene	0.028	0.025	mg/kg

SAMPLE NAME	LABSAMPID	MATRIX	SAMPDATE	METHODCODE	ANALYTE	RESULT	RL	Units
Carracas Control 1-1	2305061-49	Solid	5/3/2023 8:45:00 AM	BTEX 8260B	Total Xylenes	ND	0.075	mg/kg
Carracas Control 2-1	2305061-51	Solid	5/3/2023 8:52:00 AM	BTEX 8260B	Total Xylenes	ND	0.075	mg/kg
Carracas Control 3-1	2305061-45	Solid	5/3/2023 8:57:00 AM	BTEX 8260B	Total Xylenes	ND	0.075	mg/kg
Carracas Control 4-1	2305061-47	Solid	5/3/2023 9:15:00 AM	BTEX 8260B	Total Xylenes	ND	0.075	mg/kg
Carracas Plot 1-1	2305061-01	Solid	5/3/2023 2:41:00 PM	BTEX 8260B	Total Xylenes	ND	0.075	mg/kg
Carracas Plot 2-1	2305061-03	Solid	5/3/2023 2:32:00 PM	BTEX 8260B	Total Xylenes	ND	0.075	mg/kg
Carracas Plot 3-1	2305061-05	Solid	5/3/2023 2:21:00 PM	BTEX 8260B	Total Xylenes	ND	0.075	mg/kg
Carracas Plot 4-1	2305061-07	Solid	5/3/2023 2:04:00 PM	BTEX 8260B	Total Xylenes	ND	0.075	mg/kg
Carracas Plot 5-1	2305061-09	Solid	5/3/2023 1:56:00 PM	BTEX 8260B	Total Xylenes	ND	0.075	mg/kg
Carracas Plot 6-1	2305061-11	Solid	5/3/2023 2:15:00 PM	BTEX 8260B	Total Xylenes	ND	0.075	mg/kg
Carracas Plot 7-1	2305061-13	Solid	5/3/2023 1:47:00 PM	BTEX 8260B	Total Xylenes	ND	0.075	mg/kg
Carracas Plot 8-1	2305061-15	Solid	5/3/2023 1:37:00 PM	BTEX 8260B	Total Xylenes	0.626	0.075	mg/kg
Carracas Plot 9-1	2305061-17	Solid	5/3/2023 1:32:00 PM	BTEX 8260B	Total Xylenes	ND	0.075	mg/kg
Carracas Plot 10-1	2305061-19	Solid	5/3/2023 1:20:00 PM	BTEX 8260B	Total Xylenes	ND	0.075	mg/kg
Carracas Plot 11-1	2305061-21	Solid	5/3/2023 1:07:00 PM	BTEX 8260B	Total Xylenes	ND	0.075	mg/kg
Carracas Plot 12-1	2305061-23	Solid	5/3/2023 12:58:00 PM	BTEX 8260B	Total Xylenes	ND	0.075	mg/kg
Carracas Plot 13-1	2305061-25	Solid	5/3/2023 12:44:00 PM	BTEX 8260B	Total Xylenes	ND	0.075	mg/kg
Carracas Plot 14-1	2305061-27	Solid	5/3/2023 12:26:00 PM	BTEX 8260B	Total Xylenes	ND	0.075	mg/kg
Carracas Plot 15-1	2305061-29	Solid	5/3/2023 12:14:00 PM	BTEX 8260B	Total Xylenes	ND	0.075	mg/kg
Carracas Plot 16-1	2305061-31	Solid	5/3/2023 11:56:00 AM	BTEX 8260B	Total Xylenes	1.41	0.075	mg/kg
Carracas Plot 17-1	2305061-33	Solid	5/3/2023 11:40:00 AM	BTEX 8260B	Total Xylenes	ND	0.075	mg/kg
Carracas Plot 18-1	2305061-35	Solid	5/3/2023 11:26:00 AM	BTEX 8260B	Total Xylenes	0.094	0.075	mg/kg
Carracas Plot 19-1	2305061-37	Solid	5/3/2023 10:43:00 AM	BTEX 8260B	Total Xylenes	ND	0.075	mg/kg
Carracas Plot 20-1	2305061-39	Solid	5/3/2023 10:16:00 AM	BTEX 8260B	Total Xylenes	ND	0.075	mg/kg
Carracas Plot 21-1	2305061-41	Solid	5/3/2023 9:53:00 AM	BTEX 8260B	Total Xylenes	0.127	0.075	mg/kg
Carracas Plot 22-1	2305061-43	Solid	5/3/2023 9:30:00 AM	BTEX 8260B	Total Xylenes	ND	0.075	mg/kg

Attachment IV – Complete Lab Report on Soil Samples



75 Suttle Street
Durango, CO 81303
970.247.4220 Phone
970.247.4227 Fax
www.greenanalytical.com

16 May 2023

Tanner Paulek
Energy Inspection Services
479 Wolverine Drive
Bayfield, CO 81122
RE: Carracas 23A Spill

Enclosed are the results of analyses for samples received by the laboratory on 05/04/23 09:45. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Veronica J. Wells". The signature is written in a cursive style and is enclosed in a light blue rectangular box.

Veronica Wells
Project Manager

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: T104704514-23-17

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: T104704398-23-16



jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Energy Inspection Services
479 Wolverine Drive
Bayfield CO, 81122

Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Carracas Plot 1-1	2305061-01	Solid	05/03/23 14:41	05/04/23 09:45	
Carracas Plot 1-2	2305061-02	Solid	05/03/23 14:41	05/04/23 09:45	
Carracas Plot 2-1	2305061-03	Solid	05/03/23 14:32	05/04/23 09:45	
Carracas Plot 2-2	2305061-04	Solid	05/03/23 14:32	05/04/23 09:45	
Carracas Plot 3-1	2305061-05	Solid	05/03/23 14:21	05/04/23 09:45	
Carracas Plot 3-2	2305061-06	Solid	05/03/23 14:21	05/04/23 09:45	
Carracas Plot 4-1	2305061-07	Solid	05/03/23 14:04	05/04/23 09:45	
Carracas Plot 4-2	2305061-08	Solid	05/03/23 14:04	05/04/23 09:45	
Carracas Plot 5-1	2305061-09	Solid	05/03/23 13:56	05/04/23 09:45	
Carracas Plot 5-2	2305061-10	Solid	05/03/23 13:56	05/04/23 09:45	
Carracas Plot 6-1	2305061-11	Solid	05/03/23 14:15	05/04/23 09:45	
Carracas Plot 6-2	2305061-12	Solid	05/03/23 14:15	05/04/23 09:45	
Carracas Plot 7-1	2305061-13	Solid	05/03/23 13:47	05/04/23 09:45	
Carracas Plot 7-2	2305061-14	Solid	05/03/23 13:47	05/04/23 09:45	
Carracas Plot 8-1	2305061-15	Solid	05/03/23 13:37	05/04/23 09:45	
Carracas Plot 8-2	2305061-16	Solid	05/03/23 13:37	05/04/23 09:45	
Carracas Plot 9-1	2305061-17	Solid	05/03/23 13:32	05/04/23 09:45	
Carracas Plot 9-2	2305061-18	Solid	05/03/23 13:32	05/04/23 09:45	
Carracas Plot 10-1	2305061-19	Solid	05/03/23 13:20	05/04/23 09:45	
Carracas Plot 10-2	2305061-20	Solid	05/03/23 13:20	05/04/23 09:45	
Carracas Plot 11-1	2305061-21	Solid	05/03/23 13:07	05/04/23 09:45	
Carracas Plot 11-2	2305061-22	Solid	05/03/23 13:07	05/04/23 09:45	
Carracas Plot 12-1	2305061-23	Solid	05/03/23 12:58	05/04/23 09:45	
Carracas Plot 12-2	2305061-24	Solid	05/03/23 12:58	05/04/23 09:45	
Carracas Plot 13-1	2305061-25	Solid	05/03/23 12:44	05/04/23 09:45	
Carracas Plot 13-2	2305061-26	Solid	05/03/23 12:44	05/04/23 09:45	
Carracas Plot 14-1	2305061-27	Solid	05/03/23 12:26	05/04/23 09:45	
Carracas Plot 14-2	2305061-28	Solid	05/03/23 12:26	05/04/23 09:45	

Green Analytical Laboratories

Veronica Wells, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, 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 within thirty days after completion of the applicable service.



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www.GreenAnalytical.com

Energy Inspection Services
479 Wolverine Drive
Bayfield CO, 81122

Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Carracas Plot 15-1	2305061-29	Solid	05/03/23 12:14	05/04/23 09:45	
Carracas Plot 15-2	2305061-30	Solid	05/03/23 12:14	05/04/23 09:45	
Carracas Plot 16-1	2305061-31	Solid	05/03/23 11:56	05/04/23 09:45	
Carracas Plot 16-2	2305061-32	Solid	05/03/23 11:56	05/04/23 09:45	
Carracas Plot 17-1	2305061-33	Solid	05/03/23 11:40	05/04/23 09:45	
Carracas Plot 17-2	2305061-34	Solid	05/03/23 11:40	05/04/23 09:45	
Carracas Plot 18-1	2305061-35	Solid	05/03/23 11:26	05/04/23 09:45	
Carracas Plot 18-2	2305061-36	Solid	05/03/23 11:26	05/04/23 09:45	
Carracas Plot 19-1	2305061-37	Solid	05/03/23 10:43	05/04/23 09:45	
Carracas Plot 19-2	2305061-38	Solid	05/03/23 10:43	05/04/23 09:45	
Carracas Plot 20-1	2305061-39	Solid	05/03/23 10:16	05/04/23 09:45	
Carracas Plot 20-2	2305061-40	Solid	05/03/23 10:16	05/04/23 09:45	
Carracas Plot 21-1	2305061-41	Solid	05/03/23 09:53	05/04/23 09:45	
Carracas Plot 21-2	2305061-42	Solid	05/03/23 09:53	05/04/23 09:45	
Carracas Plot 22-1	2305061-43	Solid	05/03/23 09:30	05/04/23 09:45	
Carracas Plot 22-2	2305061-44	Solid	05/03/23 09:30	05/04/23 09:45	
Carracas Control 3-1	2305061-45	Solid	05/03/23 08:57	05/04/23 09:45	
Carracas Control 3-2	2305061-46	Solid	05/03/23 08:57	05/04/23 09:45	
Carracas Control 4-1	2305061-47	Solid	05/03/23 09:15	05/04/23 09:45	
Carracas Control 4-2	2305061-48	Solid	05/03/23 09:15	05/04/23 09:45	
Carracas Control 1-1	2305061-49	Solid	05/03/23 08:45	05/04/23 09:45	
Carracas Control 1-2	2305061-50	Solid	05/03/23 08:45	05/04/23 09:45	
Carracas Control 2-1	2305061-51	Solid	05/03/23 08:52	05/04/23 09:45	
Carracas Control 2-2	2305061-52	Solid	05/03/23 08:52	05/04/23 09:45	
Carracas Control 1	2305061-53	Solid	05/03/23 08:45	05/04/23 09:45	
Carracas Control 2	2305061-54	Solid	05/03/23 08:52	05/04/23 09:45	
Carracas Control 3	2305061-55	Solid	05/03/23 08:57	05/04/23 09:45	
Carracas Control 4	2305061-56	Solid	05/03/23 09:15	05/04/23 09:45	

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479 Wolverine Drive
Bayfield CO, 81122

Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Carracas Plot 22	2305061-57	Solid	05/03/23 09:30	05/04/23 09:45	
Carracas Plot 21	2305061-58	Solid	05/03/23 09:53	05/04/23 09:45	
Carracas Plot 20	2305061-59	Solid	05/03/23 10:16	05/04/23 09:45	
Carracas Plot 19	2305061-60	Solid	05/03/23 10:43	05/04/23 09:45	
Carracas Plot 18	2305061-61	Solid	05/03/23 11:26	05/04/23 09:45	
Carracas Plot 17	2305061-62	Solid	05/03/23 11:40	05/04/23 09:45	
Carracas Plot 16	2305061-63	Solid	05/03/23 11:56	05/04/23 09:45	
Carracas Plot 15	2305061-64	Solid	05/03/23 12:14	05/04/23 09:45	
Carracas Plot 14	2305061-65	Solid	05/03/23 12:26	05/04/23 09:45	
Carracas Plot 13	2305061-66	Solid	05/03/23 12:44	05/04/23 09:45	
Carracas Plot 12	2305061-67	Solid	05/03/23 12:58	05/04/23 09:45	
Carracas Plot 11	2305061-68	Solid	05/03/23 13:07	05/04/23 09:45	
Carracas Plot 10	2305061-69	Solid	05/03/23 13:20	05/04/23 09:45	
Carracas Plot 9	2305061-70	Solid	05/03/23 13:32	05/04/23 09:45	
Carracas Plot 8	2305061-71	Solid	05/03/23 13:37	05/04/23 09:45	
Carracas Plot 7	2305061-72	Solid	05/03/23 13:47	05/04/23 09:45	
Carracas Plot 6	2305061-73	Solid	05/03/23 14:15	05/04/23 09:45	
Carracas Plot 5	2305061-74	Solid	05/03/23 13:56	05/04/23 09:45	
Carracas Plot 4	2305061-75	Solid	05/03/23 14:04	05/04/23 09:45	
Carracas Plot 3	2305061-76	Solid	05/03/23 14:21	05/04/23 09:45	
Carracas Plot 2	2305061-77	Solid	05/03/23 14:32	05/04/23 09:45	
Carracas Plot 1	2305061-78	Solid	05/03/23 14:46	05/04/23 09:45	

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Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 1-1

2305061-01 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025	0.025	0.009	mg/kg	50	05/11/23 14:19	8260B		MS
Toluene*	0.039	0.025	0.007	mg/kg	50	05/11/23 14:19	8260B		MS
Ethylbenzene*	<0.025	0.025	0.004	mg/kg	50	05/11/23 14:19	8260B		MS
Total Xylenes*	<0.075	0.075	0.026	mg/kg	50	05/11/23 14:19	8260B		MS
Total BTEX	<0.150	0.150	0.045	mg/kg	50	05/11/23 14:19	8260B		MS
Surrogate: Dibromofluoromethane			107 %	86.7-111		05/11/23 14:19	8260B		MS
Surrogate: Toluene-d8			96.1 %	89.3-110		05/11/23 14:19	8260B		MS
Surrogate: 4-Bromofluorobenzene			100 %	88.2-108		05/11/23 14:19	8260B		MS

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Energy Inspection Services 479 Wolverine Drive Bayfield CO, 81122	Project: BTEX TPH Chloride Project Name / Number: Carracas 23A Spill Project Manager: Tanner Paulek	Reported: 05/16/23 15:28
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Carracas Plot 1-2

2305061-02 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	05/08/23 12:00	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	05/08/23 12:00	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	05/08/23 12:00	8015B		MS
Surrogate: 1-Chlorooctane			78.1 %	48.2-134		05/08/23 12:00	8015B		MS
Surrogate: 1-Chlorooctadecane			77.3 %	49.1-148		05/08/23 12:00	8015B		MS

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479 Wolverine Drive
Bayfield CO, 81122

Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 2-1

2305061-03 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025	0.025	0.009	mg/kg	50	05/11/23 14:34	8260B		MS
Toluene*	<0.025	0.025	0.007	mg/kg	50	05/11/23 14:34	8260B		MS
Ethylbenzene*	<0.025	0.025	0.004	mg/kg	50	05/11/23 14:34	8260B		MS
Total Xylenes*	<0.075	0.075	0.026	mg/kg	50	05/11/23 14:34	8260B		MS
Total BTEX	<0.150	0.150	0.045	mg/kg	50	05/11/23 14:34	8260B		MS
<i>Surrogate: Dibromofluoromethane</i>			107 %	86.7-111		05/11/23 14:34	8260B		MS
<i>Surrogate: Toluene-d8</i>			94.4 %	89.3-110		05/11/23 14:34	8260B		MS
<i>Surrogate: 4-Bromofluorobenzene</i>			98.8 %	88.2-108		05/11/23 14:34	8260B		MS

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Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 2-2

2305061-04 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	05/08/23 12:23	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	05/08/23 12:23	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	05/08/23 12:23	8015B		MS
Surrogate: 1-Chlorooctane			78.9 %	48.2-134		05/08/23 12:23	8015B		MS
Surrogate: 1-Chlorooctadecane			80.3 %	49.1-148		05/08/23 12:23	8015B		MS

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Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 3-1

2305061-05 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025	0.025	0.009	mg/kg	50	05/11/23 14:50	8260B		MS
Toluene*	<0.025	0.025	0.007	mg/kg	50	05/11/23 14:50	8260B		MS
Ethylbenzene*	<0.025	0.025	0.004	mg/kg	50	05/11/23 14:50	8260B		MS
Total Xylenes*	<0.075	0.075	0.026	mg/kg	50	05/11/23 14:50	8260B		MS
Total BTEX	<0.150	0.150	0.045	mg/kg	50	05/11/23 14:50	8260B		MS
<i>Surrogate: Dibromofluoromethane</i>			102 %	86.7-111		05/11/23 14:50	8260B		MS
<i>Surrogate: Toluene-d8</i>			97.7 %	89.3-110		05/11/23 14:50	8260B		MS
<i>Surrogate: 4-Bromofluorobenzene</i>			99.2 %	88.2-108		05/11/23 14:50	8260B		MS

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Bayfield CO, 81122

Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 3-2

2305061-06 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	05/08/23 12:46	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	05/08/23 12:46	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	05/08/23 12:46	8015B		MS
Surrogate: 1-Chlorooctane			80.7 %	48.2-134		05/08/23 12:46	8015B		MS
Surrogate: 1-Chlorooctadecane			80.7 %	49.1-148		05/08/23 12:46	8015B		MS

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479 Wolverine Drive
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Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 4-1

2305061-07 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025	0.025	0.009	mg/kg	50	05/11/23 15:05	8260B		MS
Toluene*	<0.025	0.025	0.007	mg/kg	50	05/11/23 15:05	8260B		MS
Ethylbenzene*	<0.025	0.025	0.004	mg/kg	50	05/11/23 15:05	8260B		MS
Total Xylenes*	<0.075	0.075	0.026	mg/kg	50	05/11/23 15:05	8260B		MS
Total BTEX	<0.150	0.150	0.045	mg/kg	50	05/11/23 15:05	8260B		MS
<i>Surrogate: Dibromofluoromethane</i>			103 %	86.7-111		05/11/23 15:05	8260B		MS
<i>Surrogate: Toluene-d8</i>			97.5 %	89.3-110		05/11/23 15:05	8260B		MS
<i>Surrogate: 4-Bromofluorobenzene</i>			102 %	88.2-108		05/11/23 15:05	8260B		MS

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Energy Inspection Services 479 Wolverine Drive Bayfield CO, 81122	Project: BTEX TPH Chloride Project Name / Number: Carracas 23A Spill Project Manager: Tanner Paulek	Reported: 05/16/23 15:28
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Carracas Plot 4-2

2305061-08 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	05/08/23 13:10	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	05/08/23 13:10	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	05/08/23 13:10	8015B		MS
Surrogate: 1-Chlorooctane			75.6 %	48.2-134		05/08/23 13:10	8015B		MS
Surrogate: 1-Chlorooctadecane			76.6 %	49.1-148		05/08/23 13:10	8015B		MS

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Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 5-1

2305061-09 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025	0.025	0.009	mg/kg	50	05/11/23 15:20	8260B		MS
Toluene*	0.026	0.025	0.007	mg/kg	50	05/11/23 15:20	8260B		MS
Ethylbenzene*	<0.025	0.025	0.004	mg/kg	50	05/11/23 15:20	8260B		MS
Total Xylenes*	<0.075	0.075	0.026	mg/kg	50	05/11/23 15:20	8260B		MS
Total BTEX	<0.150	0.150	0.045	mg/kg	50	05/11/23 15:20	8260B		MS
Surrogate: Dibromofluoromethane			108 %	86.7-111		05/11/23 15:20	8260B		MS
Surrogate: Toluene-d8			93.9 %	89.3-110		05/11/23 15:20	8260B		MS
Surrogate: 4-Bromofluorobenzene			96.4 %	88.2-108		05/11/23 15:20	8260B		MS

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Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 5-2

2305061-10 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	05/08/23 13:34	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	05/08/23 13:34	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	05/08/23 13:34	8015B		MS
Surrogate: 1-Chlorooctane			77.0 %	48.2-134		05/08/23 13:34	8015B		MS
Surrogate: 1-Chlorooctadecane			76.9 %	49.1-148		05/08/23 13:34	8015B		MS

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Energy Inspection Services
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Bayfield CO, 81122

Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 6-1

2305061-11 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025	0.025	0.009	mg/kg	50	05/11/23 15:35	8260B		MS
Toluene*	<0.025	0.025	0.007	mg/kg	50	05/11/23 15:35	8260B		MS
Ethylbenzene*	<0.025	0.025	0.004	mg/kg	50	05/11/23 15:35	8260B		MS
Total Xylenes*	<0.075	0.075	0.026	mg/kg	50	05/11/23 15:35	8260B		MS
Total BTEX	<0.150	0.150	0.045	mg/kg	50	05/11/23 15:35	8260B		MS
Surrogate: Dibromofluoromethane			104 %	86.7-111		05/11/23 15:35	8260B		MS
Surrogate: Toluene-d8			94.1 %	89.3-110		05/11/23 15:35	8260B		MS
Surrogate: 4-Bromofluorobenzene			99.1 %	88.2-108		05/11/23 15:35	8260B		MS

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Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 6-2

2305061-12 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	05/08/23 13:58	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	05/08/23 13:58	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	05/08/23 13:58	8015B		MS
Surrogate: 1-Chlorooctane			74.7 %	48.2-134		05/08/23 13:58	8015B		MS
Surrogate: 1-Chlorooctadecane			74.4 %	49.1-148		05/08/23 13:58	8015B		MS

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Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 7-1

2305061-13 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025	0.025	0.009	mg/kg	50	05/11/23 15:51	8260B		MS
Toluene*	<0.025	0.025	0.007	mg/kg	50	05/11/23 15:51	8260B		MS
Ethylbenzene*	<0.025	0.025	0.004	mg/kg	50	05/11/23 15:51	8260B		MS
Total Xylenes*	<0.075	0.075	0.026	mg/kg	50	05/11/23 15:51	8260B		MS
Total BTEX	<0.150	0.150	0.045	mg/kg	50	05/11/23 15:51	8260B		MS
Surrogate: Dibromofluoromethane			105 %	86.7-111		05/11/23 15:51	8260B		MS
Surrogate: Toluene-d8			91.2 %	89.3-110		05/11/23 15:51	8260B		MS
Surrogate: 4-Bromofluorobenzene			98.4 %	88.2-108		05/11/23 15:51	8260B		MS

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Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 7-2

2305061-14 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	05/08/23 14:21	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	05/08/23 14:21	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	05/08/23 14:21	8015B		MS
Surrogate: 1-Chlorooctane			74.7 %	48.2-134		05/08/23 14:21	8015B		MS
Surrogate: 1-Chlorooctadecane			75.2 %	49.1-148		05/08/23 14:21	8015B		MS

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Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 8-1

2305061-15 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025	0.025	0.009	mg/kg	50	05/12/23 10:32	8260B		MS
Toluene*	<0.025	0.025	0.007	mg/kg	50	05/12/23 10:32	8260B		MS
Ethylbenzene*	<0.025	0.025	0.004	mg/kg	50	05/12/23 10:32	8260B		MS
Total Xylenes*	0.626	0.075	0.026	mg/kg	50	05/12/23 10:32	8260B		MS
Total BTEX	0.626	0.150	0.045	mg/kg	50	05/12/23 10:32	8260B		MS
Surrogate: Dibromofluoromethane			89.2 %	86.7-111		05/12/23 10:32	8260B		MS
Surrogate: Toluene-d8			87.9 %	89.3-110		05/12/23 10:32	8260B	S-05	MS
Surrogate: 4-Bromofluorobenzene			115 %	88.2-108		05/12/23 10:32	8260B	S-05	MS

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Carracas Plot 8-2

2305061-16 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	05/08/23 14:45	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	05/08/23 14:45	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	05/08/23 14:45	8015B		MS
Surrogate: 1-Chlorooctane			81.6 %	48.2-134		05/08/23 14:45	8015B		MS
Surrogate: 1-Chlorooctadecane			84.0 %	49.1-148		05/08/23 14:45	8015B		MS

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Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 9-1

2305061-17 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025	0.025	0.009	mg/kg	50	05/11/23 16:06	8260B		MS
Toluene*	0.037	0.025	0.007	mg/kg	50	05/11/23 16:06	8260B		MS
Ethylbenzene*	<0.025	0.025	0.004	mg/kg	50	05/11/23 16:06	8260B		MS
Total Xylenes*	<0.075	0.075	0.026	mg/kg	50	05/11/23 16:06	8260B		MS
Total BTEX	<0.150	0.150	0.045	mg/kg	50	05/11/23 16:06	8260B		MS
Surrogate: Dibromofluoromethane			104 %	86.7-111		05/11/23 16:06	8260B		MS
Surrogate: Toluene-d8			93.1 %	89.3-110		05/11/23 16:06	8260B		MS
Surrogate: 4-Bromofluorobenzene			102 %	88.2-108		05/11/23 16:06	8260B		MS

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Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 9-2

2305061-18 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	05/08/23 15:10	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	05/08/23 15:10	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	05/08/23 15:10	8015B		MS
Surrogate: 1-Chlorooctane			82.8 %	48.2-134		05/08/23 15:10	8015B		MS
Surrogate: 1-Chlorooctadecane			86.0 %	49.1-148		05/08/23 15:10	8015B		MS

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Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 10-1

2305061-19 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025	0.025	0.009	mg/kg	50	05/11/23 16:21	8260B		MS
Toluene*	<0.025	0.025	0.007	mg/kg	50	05/11/23 16:21	8260B		MS
Ethylbenzene*	<0.025	0.025	0.004	mg/kg	50	05/11/23 16:21	8260B		MS
Total Xylenes*	<0.075	0.075	0.026	mg/kg	50	05/11/23 16:21	8260B		MS
Total BTEX	<0.150	0.150	0.045	mg/kg	50	05/11/23 16:21	8260B		MS
<i>Surrogate: Dibromofluoromethane</i>			106 %	86.7-111		05/11/23 16:21	8260B		MS
<i>Surrogate: Toluene-d8</i>			92.4 %	89.3-110		05/11/23 16:21	8260B		MS
<i>Surrogate: 4-Bromofluorobenzene</i>			104 %	88.2-108		05/11/23 16:21	8260B		MS

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Carracas Plot 10-2

2305061-20 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	05/08/23 15:34	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	05/08/23 15:34	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	05/08/23 15:34	8015B		MS
Surrogate: 1-Chlorooctane			81.2 %	48.2-134		05/08/23 15:34	8015B		MS
Surrogate: 1-Chlorooctadecane			81.6 %	49.1-148		05/08/23 15:34	8015B		MS

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Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 11-1

2305061-21 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025	0.025	0.009	mg/kg	50	05/11/23 16:37	8260B		MS
Toluene*	<0.025	0.025	0.007	mg/kg	50	05/11/23 16:37	8260B		MS
Ethylbenzene*	<0.025	0.025	0.004	mg/kg	50	05/11/23 16:37	8260B		MS
Total Xylenes*	<0.075	0.075	0.026	mg/kg	50	05/11/23 16:37	8260B		MS
Total BTEX	<0.150	0.150	0.045	mg/kg	50	05/11/23 16:37	8260B		MS
<i>Surrogate: Dibromofluoromethane</i>			101 %	86.7-111		05/11/23 16:37	8260B		MS
<i>Surrogate: Toluene-d8</i>			93.9 %	89.3-110		05/11/23 16:37	8260B		MS
<i>Surrogate: 4-Bromofluorobenzene</i>			106 %	88.2-108		05/11/23 16:37	8260B		MS

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Carracas Plot 11-2

2305061-22 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	05/08/23 15:58	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	05/08/23 15:58	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	05/08/23 15:58	8015B		MS
Surrogate: 1-Chlorooctane			79.2 %	48.2-134		05/08/23 15:58	8015B		MS
Surrogate: 1-Chlorooctadecane			80.3 %	49.1-148		05/08/23 15:58	8015B		MS

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Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 12-1

2305061-23 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025	0.025	0.009	mg/kg	50	05/11/23 16:52	8260B		MS
Toluene*	<0.025	0.025	0.007	mg/kg	50	05/11/23 16:52	8260B		MS
Ethylbenzene*	<0.025	0.025	0.004	mg/kg	50	05/11/23 16:52	8260B		MS
Total Xylenes*	<0.075	0.075	0.026	mg/kg	50	05/11/23 16:52	8260B		MS
Total BTEX	<0.150	0.150	0.045	mg/kg	50	05/11/23 16:52	8260B		MS
Surrogate: Dibromofluoromethane			101 %	86.7-111		05/11/23 16:52	8260B		MS
Surrogate: Toluene-d8			95.4 %	89.3-110		05/11/23 16:52	8260B		MS
Surrogate: 4-Bromofluorobenzene			101 %	88.2-108		05/11/23 16:52	8260B		MS

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Energy Inspection Services
479 Wolverine Drive
Bayfield CO, 81122

Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 12-2

2305061-24 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	05/08/23 16:22	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	05/08/23 16:22	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	05/08/23 16:22	8015B		MS
Surrogate: 1-Chlorooctane			80.3 %	48.2-134		05/08/23 16:22	8015B		MS
Surrogate: 1-Chlorooctadecane			82.7 %	49.1-148		05/08/23 16:22	8015B		MS

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Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 13-1

2305061-25 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025	0.025	0.009	mg/kg	50	05/11/23 17:07	8260B		MS
Toluene*	<0.025	0.025	0.007	mg/kg	50	05/11/23 17:07	8260B		MS
Ethylbenzene*	<0.025	0.025	0.004	mg/kg	50	05/11/23 17:07	8260B		MS
Total Xylenes*	<0.075	0.075	0.026	mg/kg	50	05/11/23 17:07	8260B		MS
Total BTEX	<0.150	0.150	0.045	mg/kg	50	05/11/23 17:07	8260B		MS
<i>Surrogate: Dibromofluoromethane</i>			110 %	86.7-111		05/11/23 17:07	8260B		MS
<i>Surrogate: Toluene-d8</i>			93.5 %	89.3-110		05/11/23 17:07	8260B		MS
<i>Surrogate: 4-Bromofluorobenzene</i>			101 %	88.2-108		05/11/23 17:07	8260B		MS

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Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 13-2

2305061-26 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	05/08/23 16:47	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	05/08/23 16:47	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	05/08/23 16:47	8015B		MS
Surrogate: 1-Chlorooctane			78.5 %	48.2-134		05/08/23 16:47	8015B		MS
Surrogate: 1-Chlorooctadecane			79.3 %	49.1-148		05/08/23 16:47	8015B		MS

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Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 14-1

2305061-27 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025	0.025	0.009	mg/kg	50	05/11/23 17:22	8260B		MS
Toluene*	0.035	0.025	0.007	mg/kg	50	05/11/23 17:22	8260B		MS
Ethylbenzene*	<0.025	0.025	0.004	mg/kg	50	05/11/23 17:22	8260B		MS
Total Xylenes*	<0.075	0.075	0.026	mg/kg	50	05/11/23 17:22	8260B		MS
Total BTEX	<0.150	0.150	0.045	mg/kg	50	05/11/23 17:22	8260B		MS
Surrogate: Dibromofluoromethane			105 %	86.7-111		05/11/23 17:22	8260B		MS
Surrogate: Toluene-d8			94.2 %	89.3-110		05/11/23 17:22	8260B		MS
Surrogate: 4-Bromofluorobenzene			100 %	88.2-108		05/11/23 17:22	8260B		MS

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Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 14-2

2305061-28 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	05/08/23 17:11	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	05/08/23 17:11	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	05/08/23 17:11	8015B		MS
Surrogate: 1-Chlorooctane			77.9 %	48.2-134		05/08/23 17:11	8015B		MS
Surrogate: 1-Chlorooctadecane			77.9 %	49.1-148		05/08/23 17:11	8015B		MS

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Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 15-1

2305061-29 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025	0.025	0.009	mg/kg	50	05/11/23 17:38	8260B		MS
Toluene*	<0.025	0.025	0.007	mg/kg	50	05/11/23 17:38	8260B		MS
Ethylbenzene*	<0.025	0.025	0.004	mg/kg	50	05/11/23 17:38	8260B		MS
Total Xylenes*	<0.075	0.075	0.026	mg/kg	50	05/11/23 17:38	8260B		MS
Total BTEX	<0.150	0.150	0.045	mg/kg	50	05/11/23 17:38	8260B		MS
<i>Surrogate: Dibromofluoromethane</i>			102 %	86.7-111		05/11/23 17:38	8260B		MS
<i>Surrogate: Toluene-d8</i>			94.0 %	89.3-110		05/11/23 17:38	8260B		MS
<i>Surrogate: 4-Bromofluorobenzene</i>			101 %	88.2-108		05/11/23 17:38	8260B		MS

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Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 15-2

2305061-30 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	05/08/23 17:37	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	05/08/23 17:37	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	05/08/23 17:37	8015B		MS
Surrogate: 1-Chlorooctane			76.8 %	48.2-134		05/08/23 17:37	8015B		MS
Surrogate: 1-Chlorooctadecane			76.5 %	49.1-148		05/08/23 17:37	8015B		MS

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Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 16-1

2305061-31 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Volatile Organic Compounds by EPA Method 8260B

Benzene*	0.071	0.025	0.009	mg/kg	50	05/11/23 17:54	8260B		MS
Toluene*	0.787	0.025	0.007	mg/kg	50	05/11/23 17:54	8260B		MS
Ethylbenzene*	0.097	0.025	0.004	mg/kg	50	05/11/23 17:54	8260B		MS
Total Xylenes*	1.41	0.075	0.026	mg/kg	50	05/11/23 17:54	8260B		MS
Total BTEX	2.37	0.150	0.045	mg/kg	50	05/11/23 17:54	8260B		MS
Surrogate: Dibromofluoromethane			100 %	86.7-111		05/11/23 17:54	8260B		MS
Surrogate: Toluene-d8			96.5 %	89.3-110		05/11/23 17:54	8260B		MS
Surrogate: 4-Bromofluorobenzene			104 %	88.2-108		05/11/23 17:54	8260B		MS

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Energy Inspection Services 479 Wolverine Drive Bayfield CO, 81122	Project: BTEX TPH Chloride Project Name / Number: Carracas 23A Spill Project Manager: Tanner Paulek	Reported: 05/16/23 15:28
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Carracas Plot 16-2

2305061-32 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	10.6	10.0	6.25	mg/kg	1	05/08/23 18:01	8015B		MS
DRO >C10-C28*	19.3	10.0	4.26	mg/kg	1	05/08/23 18:01	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	05/08/23 18:01	8015B		MS
Surrogate: 1-Chlorooctane			76.6 %	48.2-134		05/08/23 18:01	8015B		MS
Surrogate: 1-Chlorooctadecane			77.6 %	49.1-148		05/08/23 18:01	8015B		MS

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Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 17-1

2305061-33 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025	0.025	0.009	mg/kg	50	05/11/23 18:09	8260B		MS
Toluene*	<0.025	0.025	0.007	mg/kg	50	05/11/23 18:09	8260B		MS
Ethylbenzene*	<0.025	0.025	0.004	mg/kg	50	05/11/23 18:09	8260B		MS
Total Xylenes*	<0.075	0.075	0.026	mg/kg	50	05/11/23 18:09	8260B		MS
Total BTEX	<0.150	0.150	0.045	mg/kg	50	05/11/23 18:09	8260B		MS
Surrogate: Dibromofluoromethane			112 %	86.7-111		05/11/23 18:09	8260B	S-05	MS
Surrogate: Toluene-d8			94.1 %	89.3-110		05/11/23 18:09	8260B		MS
Surrogate: 4-Bromofluorobenzene			103 %	88.2-108		05/11/23 18:09	8260B		MS

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Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 17-2

2305061-34 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	05/08/23 18:26	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	05/08/23 18:26	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	05/08/23 18:26	8015B		MS
Surrogate: 1-Chlorooctane			69.9 %	48.2-134		05/08/23 18:26	8015B		MS
Surrogate: 1-Chlorooctadecane			69.0 %	49.1-148		05/08/23 18:26	8015B		MS

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Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 18-1

2305061-35 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025	0.025	0.009	mg/kg	50	05/11/23 18:24	8260B		MS
Toluene*	0.065	0.025	0.007	mg/kg	50	05/11/23 18:24	8260B		MS
Ethylbenzene*	<0.025	0.025	0.004	mg/kg	50	05/11/23 18:24	8260B		MS
Total Xylenes*	0.094	0.075	0.026	mg/kg	50	05/11/23 18:24	8260B		MS
Total BTEX	0.159	0.150	0.045	mg/kg	50	05/11/23 18:24	8260B		MS
Surrogate: Dibromofluoromethane			103 %	86.7-111		05/11/23 18:24	8260B		MS
Surrogate: Toluene-d8			96.7 %	89.3-110		05/11/23 18:24	8260B		MS
Surrogate: 4-Bromofluorobenzene			103 %	88.2-108		05/11/23 18:24	8260B		MS

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Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 18-2

2305061-36 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	05/08/23 18:51	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	05/08/23 18:51	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	05/08/23 18:51	8015B		MS
Surrogate: 1-Chlorooctane			75.7 %	48.2-134		05/08/23 18:51	8015B		MS
Surrogate: 1-Chlorooctadecane			74.8 %	49.1-148		05/08/23 18:51	8015B		MS

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Energy Inspection Services
479 Wolverine Drive
Bayfield CO, 81122

Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 19-1

2305061-37 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025	0.025	0.009	mg/kg	50	05/11/23 18:40	8260B		MS
Toluene*	<0.025	0.025	0.007	mg/kg	50	05/11/23 18:40	8260B		MS
Ethylbenzene*	<0.025	0.025	0.004	mg/kg	50	05/11/23 18:40	8260B		MS
Total Xylenes*	<0.075	0.075	0.026	mg/kg	50	05/11/23 18:40	8260B		MS
Total BTEX	<0.150	0.150	0.045	mg/kg	50	05/11/23 18:40	8260B		MS
<i>Surrogate: Dibromofluoromethane</i>			112 %	86.7-111		05/11/23 18:40	8260B	S-05	MS
<i>Surrogate: Toluene-d8</i>			95.7 %	89.3-110		05/11/23 18:40	8260B		MS
<i>Surrogate: 4-Bromofluorobenzene</i>			104 %	88.2-108		05/11/23 18:40	8260B		MS

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Energy Inspection Services 479 Wolverine Drive Bayfield CO, 81122	Project: BTEX TPH Chloride Project Name / Number: Carracas 23A Spill Project Manager: Tanner Paulek	Reported: 05/16/23 15:28
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Carracas Plot 19-2

2305061-38 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	05/08/23 19:15	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	05/08/23 19:15	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	05/08/23 19:15	8015B		MS
Surrogate: 1-Chlorooctane			77.7 %	48.2-134		05/08/23 19:15	8015B		MS
Surrogate: 1-Chlorooctadecane			79.8 %	49.1-148		05/08/23 19:15	8015B		MS

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Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 20-1

2305061-39 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025	0.025	0.009	mg/kg	50	05/11/23 18:56	8260B		MS
Toluene*	<0.025	0.025	0.007	mg/kg	50	05/11/23 18:56	8260B		MS
Ethylbenzene*	<0.025	0.025	0.004	mg/kg	50	05/11/23 18:56	8260B		MS
Total Xylenes*	<0.075	0.075	0.026	mg/kg	50	05/11/23 18:56	8260B		MS
Total BTEX	<0.150	0.150	0.045	mg/kg	50	05/11/23 18:56	8260B		MS
<i>Surrogate: Dibromofluoromethane</i>			105 %	86.7-111		05/11/23 18:56	8260B		MS
<i>Surrogate: Toluene-d8</i>			97.9 %	89.3-110		05/11/23 18:56	8260B		MS
<i>Surrogate: 4-Bromofluorobenzene</i>			104 %	88.2-108		05/11/23 18:56	8260B		MS

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Energy Inspection Services 479 Wolverine Drive Bayfield CO, 81122	Project: BTEX TPH Chloride Project Name / Number: Carracas 23A Spill Project Manager: Tanner Paulek	Reported: 05/16/23 15:28
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Carracas Plot 20-2

2305061-40 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	05/08/23 19:39	8015B		MS
DRO >C10-C28*	39.2	10.0	4.26	mg/kg	1	05/08/23 19:39	8015B		MS
EXT DRO >C28-C36	13.4	10.0	4.26	mg/kg	1	05/08/23 19:39	8015B		MS
Surrogate: 1-Chlorooctane			73.1 %	48.2-134		05/08/23 19:39	8015B		MS
Surrogate: 1-Chlorooctadecane			73.8 %	49.1-148		05/08/23 19:39	8015B		MS

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Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 21-1

2305061-41 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025	0.025	0.009	mg/kg	50	05/11/23 21:12	8260B		MS
Toluene*	0.061	0.025	0.007	mg/kg	50	05/11/23 21:12	8260B		MS
Ethylbenzene*	<0.025	0.025	0.004	mg/kg	50	05/11/23 21:12	8260B		MS
Total Xylenes*	0.127	0.075	0.026	mg/kg	50	05/11/23 21:12	8260B		MS
Total BTEX	0.188	0.150	0.045	mg/kg	50	05/11/23 21:12	8260B		MS
Surrogate: Dibromofluoromethane			114 %	86.7-111		05/11/23 21:12	8260B	S-05	MS
Surrogate: Toluene-d8			93.7 %	89.3-110		05/11/23 21:12	8260B		MS
Surrogate: 4-Bromofluorobenzene			98.7 %	88.2-108		05/11/23 21:12	8260B		MS

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Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 21-2

2305061-42 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	05/08/23 12:25	8015B		MS
DRO >C10-C28*	11.4	10.0	4.26	mg/kg	1	05/08/23 12:25	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	05/08/23 12:25	8015B		MS
Surrogate: 1-Chlorooctane			82.9 %	48.2-134		05/08/23 12:25	8015B		MS
Surrogate: 1-Chlorooctadecane			88.7 %	49.1-148		05/08/23 12:25	8015B		MS

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Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 22-1

2305061-43 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025	0.025	0.009	mg/kg	50	05/11/23 21:28	8260B		MS
Toluene*	0.028	0.025	0.007	mg/kg	50	05/11/23 21:28	8260B		MS
Ethylbenzene*	<0.025	0.025	0.004	mg/kg	50	05/11/23 21:28	8260B		MS
Total Xylenes*	<0.075	0.075	0.026	mg/kg	50	05/11/23 21:28	8260B		MS
Total BTEX	<0.150	0.150	0.045	mg/kg	50	05/11/23 21:28	8260B		MS
<i>Surrogate: Dibromofluoromethane</i>			107 %	86.7-111		05/11/23 21:28	8260B		MS
<i>Surrogate: Toluene-d8</i>			96.6 %	89.3-110		05/11/23 21:28	8260B		MS
<i>Surrogate: 4-Bromofluorobenzene</i>			99.5 %	88.2-108		05/11/23 21:28	8260B		MS

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Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 22-2

2305061-44 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	05/08/23 12:49	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	05/08/23 12:49	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	05/08/23 12:49	8015B		MS
Surrogate: 1-Chlorooctane			88.2 %	48.2-134		05/08/23 12:49	8015B		MS
Surrogate: 1-Chlorooctadecane			95.5 %	49.1-148		05/08/23 12:49	8015B		MS

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Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Control 3-1

2305061-45 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025	0.025	0.009	mg/kg	50	05/11/23 21:43	8260B		MS
Toluene*	<0.025	0.025	0.007	mg/kg	50	05/11/23 21:43	8260B		MS
Ethylbenzene*	<0.025	0.025	0.004	mg/kg	50	05/11/23 21:43	8260B		MS
Total Xylenes*	<0.075	0.075	0.026	mg/kg	50	05/11/23 21:43	8260B		MS
Total BTEX	<0.150	0.150	0.045	mg/kg	50	05/11/23 21:43	8260B		MS
<i>Surrogate: Dibromofluoromethane</i>			101 %	86.7-111		05/11/23 21:43	8260B		MS
<i>Surrogate: Toluene-d8</i>			94.8 %	89.3-110		05/11/23 21:43	8260B		MS
<i>Surrogate: 4-Bromofluorobenzene</i>			100 %	88.2-108		05/11/23 21:43	8260B		MS

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Energy Inspection Services 479 Wolverine Drive Bayfield CO, 81122	Project: BTEX TPH Chloride Project Name / Number: Carracas 23A Spill Project Manager: Tanner Paulek	Reported: 05/16/23 15:28
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Carracas Control 3-2

2305061-46 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	05/08/23 13:14	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	05/08/23 13:14	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	05/08/23 13:14	8015B		MS
Surrogate: 1-Chlorooctane			84.3 %	48.2-134		05/08/23 13:14	8015B		MS
Surrogate: 1-Chlorooctadecane			92.3 %	49.1-148		05/08/23 13:14	8015B		MS

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Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Control 4-1

2305061-47 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025	0.025	0.009	mg/kg	50	05/11/23 21:59	8260B		MS
Toluene*	<0.025	0.025	0.007	mg/kg	50	05/11/23 21:59	8260B		MS
Ethylbenzene*	<0.025	0.025	0.004	mg/kg	50	05/11/23 21:59	8260B		MS
Total Xylenes*	<0.075	0.075	0.026	mg/kg	50	05/11/23 21:59	8260B		MS
Total BTEX	<0.150	0.150	0.045	mg/kg	50	05/11/23 21:59	8260B		MS
<i>Surrogate: Dibromofluoromethane</i>			104 %	86.7-111		05/11/23 21:59	8260B		MS
<i>Surrogate: Toluene-d8</i>			95.5 %	89.3-110		05/11/23 21:59	8260B		MS
<i>Surrogate: 4-Bromofluorobenzene</i>			102 %	88.2-108		05/11/23 21:59	8260B		MS

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Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Control 4-2

2305061-48 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	05/08/23 13:38	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	05/08/23 13:38	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	05/08/23 13:38	8015B		MS
Surrogate: 1-Chlorooctane			72.5 %	48.2-134		05/08/23 13:38	8015B		MS
Surrogate: 1-Chlorooctadecane			78.5 %	49.1-148		05/08/23 13:38	8015B		MS

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Bayfield CO, 81122

Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Control 1-1

2305061-49 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025	0.025	0.009	mg/kg	50	05/11/23 22:14	8260B		MS
Toluene*	<0.025	0.025	0.007	mg/kg	50	05/11/23 22:14	8260B		MS
Ethylbenzene*	<0.025	0.025	0.004	mg/kg	50	05/11/23 22:14	8260B		MS
Total Xylenes*	<0.075	0.075	0.026	mg/kg	50	05/11/23 22:14	8260B		MS
Total BTEX	<0.150	0.150	0.045	mg/kg	50	05/11/23 22:14	8260B		MS
Surrogate: Dibromofluoromethane			109 %	86.7-111		05/11/23 22:14	8260B		MS
Surrogate: Toluene-d8			97.1 %	89.3-110		05/11/23 22:14	8260B		MS
Surrogate: 4-Bromofluorobenzene			97.3 %	88.2-108		05/11/23 22:14	8260B		MS

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Energy Inspection Services
479 Wolverine Drive
Bayfield CO, 81122

Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Control 1-2

2305061-50 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	05/08/23 14:03	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	05/08/23 14:03	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	05/08/23 14:03	8015B		MS
Surrogate: 1-Chlorooctane			87.8 %	48.2-134		05/08/23 14:03	8015B		MS
Surrogate: 1-Chlorooctadecane			97.5 %	49.1-148		05/08/23 14:03	8015B		MS

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Bayfield CO, 81122

Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Control 2-1

2305061-51 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025	0.025	0.009	mg/kg	50	05/11/23 22:29	8260B		MS
Toluene*	<0.025	0.025	0.007	mg/kg	50	05/11/23 22:29	8260B		MS
Ethylbenzene*	<0.025	0.025	0.004	mg/kg	50	05/11/23 22:29	8260B		MS
Total Xylenes*	<0.075	0.075	0.026	mg/kg	50	05/11/23 22:29	8260B		MS
Total BTEX	<0.150	0.150	0.045	mg/kg	50	05/11/23 22:29	8260B		MS
<i>Surrogate: Dibromofluoromethane</i>			107 %	86.7-111		05/11/23 22:29	8260B		MS
<i>Surrogate: Toluene-d8</i>			100 %	89.3-110		05/11/23 22:29	8260B		MS
<i>Surrogate: 4-Bromofluorobenzene</i>			103 %	88.2-108		05/11/23 22:29	8260B		MS

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Bayfield CO, 81122

Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Control 2-2

2305061-52 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	05/08/23 14:28	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	05/08/23 14:28	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	05/08/23 14:28	8015B		MS
Surrogate: 1-Chlorooctane			87.0 %	48.2-134		05/08/23 14:28	8015B		MS
Surrogate: 1-Chlorooctadecane			95.5 %	49.1-148		05/08/23 14:28	8015B		MS

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Carracas Control 1

2305061-53 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	90.3			%	1	05/10/23 13:54	EPA160.3/1684		KRW
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Soluble (DI Water Extraction)

Chloride	<11.1	11.1	0.615	mg/kg dry	10	05/15/23 13:49	EPA300.0		AWG
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Carracas Control 2

2305061-54 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	90.1			%	1	05/10/23 13:54	EPA160.3/1684		KRW
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Soluble (DI Water Extraction)

Chloride	<11.1	11.1	0.616	mg/kg dry	10	05/15/23 14:52	EPA300.0		AWG
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Carracas Control 3

2305061-55 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	89.6			%	1	05/10/23 13:54	EPA160.3/1684		KRW
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Soluble (DI Water Extraction)

Chloride	<11.2	11.2	0.620	mg/kg dry	10	05/15/23 15:54	EPA300.0		AWG
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Carracas Control 4

2305061-56 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	91.3			%	1	05/10/23 13:54	EPA160.3/1684		KRW
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Soluble (DI Water Extraction)

Chloride	<11.0	11.0	0.608	mg/kg dry	10	05/15/23 16:15	EPA300.0		AWG
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Carracas Plot 22

2305061-57 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	90.3			%	1	05/10/23 13:54	EPA160.3/1684		KRW
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Soluble (DI Water Extraction)

Chloride	<11.1	11.1	0.615	mg/kg dry	10	05/15/23 16:36	EPA300.0		AWG
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Carracas Plot 21

2305061-58 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	91.3			%	1	05/10/23 13:54	EPA160.3/1684		KRW
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Soluble (DI Water Extraction)

Chloride	<10.9	10.9	0.608	mg/kg dry	10	05/15/23 16:57	EPA300.0		AWG
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Carracas Plot 20

2305061-59 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	91.0			%	1	05/10/23 13:54	EPA160.3/1684		KRW
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Soluble (DI Water Extraction)

Chloride	<11.0	11.0	0.610	mg/kg dry	10	05/15/23 17:18	EPA300.0		AWG
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Carracas Plot 19

2305061-60 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	89.5			%	1	05/10/23 13:54	EPA160.3/1684		KRW
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Soluble (DI Water Extraction)

Chloride	<11.2	11.2	0.621	mg/kg dry	10	05/15/23 17:39	EPA300.0		AWG
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Carracas Plot 18

2305061-61 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	90.8			%	1	05/10/23 13:54	EPA160.3/1684		KRW
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Soluble (DI Water Extraction)

Chloride	<11.0	11.0	0.611	mg/kg dry	10	05/15/23 18:00	EPA300.0		AWG
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Carracas Plot 17

2305061-62 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	82.4			%	1	05/10/23 13:54	EPA160.3/1684		KRW
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Soluble (DI Water Extraction)

Chloride	<12.1	12.1	0.674	mg/kg dry	10	05/15/23 18:21	EPA300.0		AWG
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Carracas Plot 16

2305061-63 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	90.4			%	1	05/10/23 13:54	EPA160.3/1684		KRW
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Soluble (DI Water Extraction)

Chloride	<11.1	11.1	0.614	mg/kg dry	10	05/15/23 18:42	EPA300.0		AWG
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Carracas Plot 15

2305061-64 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	90.6			%	1	05/10/23 13:54	EPA160.3/1684		KRW
--------------	------	--	--	---	---	----------------	---------------	--	-----

Soluble (DI Water Extraction)

Chloride	<11.0	11.0	0.613	mg/kg dry	10	05/15/23 19:03	EPA300.0		AWG
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Carracas Plot 14

2305061-65 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	87.8			%	1	05/10/23 13:54	EPA160.3/1684		KRW
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Soluble (DI Water Extraction)

Chloride	<11.4	11.4	0.632	mg/kg dry	10	05/15/23 20:06	EPA300.0		AWG
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Carracas Plot 13

2305061-66 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	81.3			%	1	05/10/23 13:54	EPA160.3/1684		KRW
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Soluble (DI Water Extraction)

Chloride	<12.3	12.3	0.683	mg/kg dry	10	05/15/23 20:26	EPA300.0		AWG
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Energy Inspection Services 479 Wolverine Drive Bayfield CO, 81122	Project: BTEX TPH Chloride Project Name / Number: Carracas 23A Spill Project Manager: Tanner Paulek	Reported: 05/16/23 15:28
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Carracas Plot 12

2305061-67 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	86.2			%	1	05/10/23 13:54	EPA160.3/1684		KRW
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Soluble (DI Water Extraction)

Chloride	<11.6	11.6	0.644	mg/kg dry	10	05/15/23 20:47	EPA300.0		AWG
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Energy Inspection Services 479 Wolverine Drive Bayfield CO, 81122	Project: BTEX TPH Chloride Project Name / Number: Carracas 23A Spill Project Manager: Tanner Paulek	Reported: 05/16/23 15:28
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Carracas Plot 11

2305061-68 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	81.8			%	1	05/10/23 13:54	EPA160.3/1684		KRW
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Soluble (DI Water Extraction)

Chloride	<12.2	12.2	0.679	mg/kg dry	10	05/15/23 21:08	EPA300.0		AWG
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Energy Inspection Services 479 Wolverine Drive Bayfield CO, 81122	Project: BTEX TPH Chloride Project Name / Number: Carracas 23A Spill Project Manager: Tanner Paulek	Reported: 05/16/23 15:28
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Carracas Plot 10

2305061-69 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	82.6			%	1	05/10/23 13:54	EPA160.3/1684		KRW
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Soluble (DI Water Extraction)

Chloride	<12.1	12.1	0.673	mg/kg dry	10	05/15/23 21:29	EPA300.0		AWG
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Carracas Plot 9

2305061-70 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	91.2			%	1	05/10/23 13:54	EPA160.3/1684		KRW
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Soluble (DI Water Extraction)

Chloride	13.8	11.0	0.609	mg/kg dry	10	05/15/23 21:50	EPA300.0		AWG
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Energy Inspection Services 479 Wolverine Drive Bayfield CO, 81122	Project: BTEX TPH Chloride Project Name / Number: Carracas 23A Spill Project Manager: Tanner Paulek	Reported: 05/16/23 15:28
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Carracas Plot 8

2305061-71 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	89.6			%	1	05/10/23 13:54	EPA160.3/1684		KRW
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Soluble (DI Water Extraction)

Chloride	<11.2	11.2	0.620	mg/kg dry	10	05/15/23 22:11	EPA300.0		AWG
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Energy Inspection Services
479 Wolverine Drive
Bayfield CO, 81122

Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Carracas Plot 7

2305061-72 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	90.2			%	1	05/10/23 13:54	EPA160.3/1684		KRW
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Soluble (DI Water Extraction)

Chloride	<11.1	11.1	0.616	mg/kg dry	10	05/15/23 22:32	EPA300.0		AWG
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Carracas Plot 6

2305061-73 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	85.4			%	1	05/10/23 14:16	EPA160.3/1684		KRW
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Soluble (DI Water Extraction)

Chloride	<11.7	11.7	0.650	mg/kg dry	10	05/16/23 01:19	EPA300.0		AWG
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Carracas Plot 5

2305061-74 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	82.3			%	1	05/10/23 14:16	EPA160.3/1684		KRW
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Soluble (DI Water Extraction)

Chloride	<12.2	12.2	0.675	mg/kg dry	10	05/16/23 01:40	EPA300.0		AWG
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Carracas Plot 4

2305061-75 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	9.88			%	1	05/10/23 14:16	EPA160.3/1684		KRW
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Soluble (DI Water Extraction)

Chloride	<101	101	5.62	mg/kg dry	10	05/16/23 02:43	EPA300.0		AWG
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Carracas Plot 3

2305061-76 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	87.8			%	1	05/10/23 14:16	EPA160.3/1684		KRW
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Soluble (DI Water Extraction)

Chloride	<11.4	11.4	0.633	mg/kg dry	10	05/16/23 03:04	EPA300.0		AWG
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Carracas Plot 2

2305061-77 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	87.5			%	1	05/10/23 14:16	EPA160.3/1684		KRW
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Soluble (DI Water Extraction)

Chloride	<11.4	11.4	0.635	mg/kg dry	10	05/16/23 04:06	EPA300.0		AWG
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Carracas Plot 1

2305061-78 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	88.8			%	1	05/10/23 14:16	EPA160.3/1684		KRW
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Soluble (DI Water Extraction)

Chloride	<11.3	11.3	0.626	mg/kg dry	10	05/16/23 04:27	EPA300.0		AWG
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Energy Inspection Services 479 Wolverine Drive Bayfield CO, 81122	Project: BTEX TPH Chloride Project Name / Number: Carracas 23A Spill Project Manager: Tanner Paulek	Reported: 05/16/23 15:28
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Soluble (DI Water Extraction) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B231239 - IC- Ion Chromatograph										
Blank (B231239-BLK1) Prepared & Analyzed: 05/15/23										
Chloride	ND	25.0	mg/kg wet							
LCS (B231239-BS1) Prepared & Analyzed: 05/15/23										
Chloride	609	25.0	mg/kg wet	600		102	85-115			
LCS Dup (B231239-BSD1) Prepared & Analyzed: 05/15/23										
Chloride	607	25.0	mg/kg wet	600		101	85-115	0.485	20	
Batch B231240 - IC- Ion Chromatograph										
Blank (B231240-BLK1) Prepared: 05/15/23 Analyzed: 05/16/23										
Chloride	ND	25.0	mg/kg wet							
LCS (B231240-BS1) Prepared: 05/15/23 Analyzed: 05/16/23										
Chloride	619	25.0	mg/kg wet	600		103	85-115			
LCS Dup (B231240-BSD1) Prepared: 05/15/23 Analyzed: 05/16/23										
Chloride	616	25.0	mg/kg wet	600		103	85-115	0.348	20	

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479 Wolverine Drive
Bayfield CO, 81122

Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3050511 - General Prep - Organics

Blank (3050511-BLK1)

Prepared: 05/05/23 Analyzed: 05/08/23

Surrogate: 1-Chlorooctadecane	46.4		mg/kg	50.0		92.7	49.1-148			
Surrogate: 1-Chlorooctane	42.4		mg/kg	49.6		85.7	48.2-134			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							

LCS (3050511-BS1)

Prepared: 05/05/23 Analyzed: 05/08/23

Surrogate: 1-Chlorooctadecane	47.9		mg/kg	50.0		95.8	49.1-148			
Surrogate: 1-Chlorooctane	47.0		mg/kg	49.6		94.8	48.2-134			
DRO >C10-C28	176	10.0	mg/kg	200		88.1	72.5-126			
GRO C6-C10	197	10.0	mg/kg	200		98.5	78.5-124			
Total TPH C6-C28	373	10.0	mg/kg	400		93.3	77.6-123			

LCS Dup (3050511-BSD1)

Prepared: 05/05/23 Analyzed: 05/08/23

Surrogate: 1-Chlorooctadecane	44.5		mg/kg	50.0		89.0	49.1-148			
Surrogate: 1-Chlorooctane	44.8		mg/kg	49.6		90.4	48.2-134			
DRO >C10-C28	178	10.0	mg/kg	200		88.9	72.5-126	0.914	21	
GRO C6-C10	201	10.0	mg/kg	200		101	78.5-124	2.13	17.7	
Total TPH C6-C28	379	10.0	mg/kg	400		94.7	77.6-123	1.56	18.5	

Batch 3050810 - General Prep - Organics

Blank (3050810-BLK1)

Prepared & Analyzed: 05/08/23

Surrogate: 1-Chlorooctadecane	53.6		mg/kg	50.0		107	49.1-148			
Surrogate: 1-Chlorooctane	47.8		mg/kg	49.6		96.4	48.2-134			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							

LCS (3050810-BS1)

Prepared & Analyzed: 05/08/23

Surrogate: 1-Chlorooctadecane	59.2		mg/kg	50.0		118	49.1-148			
Surrogate: 1-Chlorooctane	51.0		mg/kg	49.6		103	48.2-134			
DRO >C10-C28	176	10.0	mg/kg	200		88.1	72.5-126			
GRO C6-C10	191	10.0	mg/kg	200		95.4	78.5-124			
Total TPH C6-C28	367	10.0	mg/kg	400		91.8	77.6-123			

LCS Dup (3050810-BSD1)

Prepared & Analyzed: 05/08/23

Surrogate: 1-Chlorooctadecane	61.8		mg/kg	50.0		124	49.1-148			
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Energy Inspection Services
479 Wolverine Drive
Bayfield CO, 81122

Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

**Petroleum Hydrocarbons by GC FID - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3050810 - General Prep - Organics (Continued)

LCS Dup (3050810-BSD1) (Continued)

Prepared & Analyzed: 05/08/23

Surrogate: 1-Chlorooctane	52.1		mg/kg	49.6		105	48.2-134			
DRO >C10-C28	197	10.0	mg/kg	200		98.5	72.5-126	11.1	21	
GRO C6-C10	209	10.0	mg/kg	200		105	78.5-124	9.11	17.7	
Total TPH C6-C28	406	10.0	mg/kg	400		101	77.6-123	10.1	18.5	

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Energy Inspection Services
479 Wolverine Drive
Bayfield CO, 81122

Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3050926 - Volatiles

Blank (3050926-BLK1)

Prepared: 05/09/23 Analyzed: 05/11/23

Surrogate: 4-Bromofluorobenzene	1.23		mg/kg	1.25		98.7	88.2-108			
Benzene	ND	0.025	mg/kg							
Surrogate: Dibromofluoromethane	1.37		mg/kg	1.25		109	86.7-111			
Ethylbenzene	ND	0.025	mg/kg							
Toluene	ND	0.025	mg/kg							
Surrogate: Toluene-d8	1.13		mg/kg	1.25		90.8	89.3-110			
Total BTEX	ND	0.150	mg/kg							
Total Xylenes	ND	0.075	mg/kg							

LCS (3050926-BS1)

Prepared: 05/09/23 Analyzed: 05/11/23

Surrogate: 4-Bromofluorobenzene	1.25		mg/kg	1.25		100	88.2-108			
Benzene	1.75	0.025	mg/kg	2.00		87.5	70.2-121			
Surrogate: Dibromofluoromethane	1.36		mg/kg	1.25		108	86.7-111			
Ethylbenzene	1.87	0.025	mg/kg	2.00		93.7	79.1-124			
m+p - Xylene	4.02	0.050	mg/kg	4.00		100	80.8-134			
o-Xylene	1.99	0.025	mg/kg	2.00		99.3	79-130			
Toluene	1.74	0.025	mg/kg	2.00		86.8	76.9-126			
Surrogate: Toluene-d8	1.17		mg/kg	1.25		93.8	89.3-110			
Total Xylenes	6.00	0.075	mg/kg	6.00		100	80.5-132			

LCS Dup (3050926-BSD1)

Prepared: 05/09/23 Analyzed: 05/11/23

Surrogate: 4-Bromofluorobenzene	1.26		mg/kg	1.25		101	88.2-108			
Benzene	1.77	0.025	mg/kg	2.00		88.3	70.2-121	0.851	11.1	
Surrogate: Dibromofluoromethane	1.33		mg/kg	1.25		107	86.7-111			
Ethylbenzene	1.91	0.025	mg/kg	2.00		95.6	79.1-124	1.93	12.3	
m+p - Xylene	4.05	0.050	mg/kg	4.00		101	80.8-134	0.931	11.5	
o-Xylene	2.01	0.025	mg/kg	2.00		101	79-130	1.40	12.3	
Toluene	1.74	0.025	mg/kg	2.00		87.0	76.9-126	0.315	12.2	
Surrogate: Toluene-d8	1.16		mg/kg	1.25		92.6	89.3-110			
Total Xylenes	6.07	0.075	mg/kg	6.00		101	80.5-132	1.08	11.7	

Batch 3050927 - Volatiles

Blank (3050927-BLK1)

Prepared: 05/09/23 Analyzed: 05/11/23

Surrogate: 4-Bromofluorobenzene	1.24		mg/kg	1.25		99.5	88.2-108			
Benzene	ND	0.025	mg/kg							
Surrogate: Dibromofluoromethane	1.29		mg/kg	1.25		104	86.7-111			

Green Analytical Laboratories

Veronica Wells, Project Manager

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Energy Inspection Services
479 Wolverine Drive
Bayfield CO, 81122

Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

**Volatile Organic Compounds by EPA Method 8260B - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3050927 - Volatiles (Continued)

Blank (3050927-BLK1) (Continued)

Prepared: 05/09/23 Analyzed: 05/11/23

Ethylbenzene	ND	0.025	mg/kg							
Toluene	ND	0.025	mg/kg							
<i>Surrogate: Toluene-d8</i>	1.23		mg/kg	1.25		98.3	89.3-110			
Total BTEX	ND	0.150	mg/kg							
Total Xylenes	ND	0.075	mg/kg							

LCS (3050927-BS1)

Prepared: 05/09/23 Analyzed: 05/11/23

<i>Surrogate: 4-Bromofluorobenzene</i>	1.24		mg/kg	1.25		99.3	88.2-108			
Benzene	1.79	0.025	mg/kg	2.00		89.6	70.2-121			
<i>Surrogate: Dibromofluoromethane</i>	1.28		mg/kg	1.25		103	86.7-111			
Ethylbenzene	1.88	0.025	mg/kg	2.00		93.9	79.1-124			
m+p - Xylene	3.97	0.050	mg/kg	4.00		99.2	80.8-134			
o-Xylene	2.03	0.025	mg/kg	2.00		102	79-130			
Toluene	1.82	0.025	mg/kg	2.00		91.1	76.9-126			
<i>Surrogate: Toluene-d8</i>	1.23		mg/kg	1.25		98.2	89.3-110			
Total Xylenes	6.00	0.075	mg/kg	6.00		100	80.5-132			

LCS Dup (3050927-BSD1)

Prepared: 05/09/23 Analyzed: 05/11/23

<i>Surrogate: 4-Bromofluorobenzene</i>	1.25		mg/kg	1.25		99.8	88.2-108			
Benzene	1.78	0.025	mg/kg	2.00		89.1	70.2-121	0.531	11.1	
<i>Surrogate: Dibromofluoromethane</i>	1.28		mg/kg	1.25		103	86.7-111			
Ethylbenzene	1.91	0.025	mg/kg	2.00		95.6	79.1-124	1.77	12.3	
m+p - Xylene	4.00	0.050	mg/kg	4.00		99.9	80.8-134	0.723	11.5	
o-Xylene	2.07	0.025	mg/kg	2.00		103	79-130	1.61	12.3	
Toluene	1.82	0.025	mg/kg	2.00		90.8	76.9-126	0.313	12.2	
<i>Surrogate: Toluene-d8</i>	1.21		mg/kg	1.25		96.7	89.3-110			
Total Xylenes	6.06	0.075	mg/kg	6.00		101	80.5-132	1.02	11.7	

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Veronica Wells, Project Manager

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Energy Inspection Services
479 Wolverine Drive
Bayfield CO, 81122

Project: BTEX TPH Chloride
Project Name / Number: Carracas 23A Spill
Project Manager: Tanner Paulek

Reported:
05/16/23 15:28

Notes and Definitions

- S-05 The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
*Results reported on as received basis unless designated as dry.
- RPD Relative Percent Difference
- LCS Laboratory Control Sample (Blank Spike)
- RL Report Limit
- MDL Method Detection Limit

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

FORM-006
 COC - Revision 6.0

Pg 1 of 4

Company or Client: **EIS / Manning Star**
 Address: **479 Wolverine Drive #9**
 City: **Bayfield** State: **CO** Zip: **81122**

Phone #: **970-759-1057 / 970-744-8773**
 Contact Person: **Tanner Paulek or Grace Lee**

Email Report to: **tannerpaulek@eis-llc.com**
 Project Name (optional): **Carracas 13A spill**

Sampler Name (Print): **Tanner Paulek 3 Grace Lee**

For Lab Use

2305-061

Sample Name or Location	Date	Time	Matrix (check one)						# of containers					
			GROUNDWATER	SURFACEWATER	WASTEWATER	PRODUCEDWATER	SOIL	DRINKING WATER						
01 Carracas Plot 1-1	5/3/23	2:41 PM	<input checked="" type="checkbox"/>	<input type="checkbox"/>	81	BTEX								
02 Carracas Plot 1-2	5/3/23	2:41 PM	<input checked="" type="checkbox"/>	<input type="checkbox"/>		TPH								
03 Carracas Plot 2-1	5/3/23	2:32 PM	<input checked="" type="checkbox"/>	<input type="checkbox"/>										
04 Carracas Plot 2-2	5/3/23	2:32 PM	<input checked="" type="checkbox"/>	<input type="checkbox"/>										
05 Carracas Plot 3-1	5/3/23	2:21 PM	<input checked="" type="checkbox"/>	<input type="checkbox"/>										
06 Carracas Plot 3-2	5/3/23	2:21 PM	<input checked="" type="checkbox"/>	<input type="checkbox"/>										
07 Carracas Plot 4-1	5/3/23	2:04 PM	<input checked="" type="checkbox"/>	<input type="checkbox"/>										
08 Carracas Plot 4-2	5/3/23	2:04 PM	<input checked="" type="checkbox"/>	<input type="checkbox"/>										
09 Carracas Plot 5-1	5/3/23	1:56 PM	<input checked="" type="checkbox"/>	<input type="checkbox"/>										
10 Carracas Plot 5-2	5/3/23	1:56 PM	<input checked="" type="checkbox"/>	<input type="checkbox"/>										

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Relinquished by: **Grace Lee** Date: **5/14/23** Received by: **[Signature]** Date: **9:45am**

Relinquished by: **[Signature]** Date: **[Blank]** Received by: **[Signature]** Date: **[Blank]**

Relinquished by: **[Signature]** Date: **[Blank]** Received by: **[Signature]** Date: **[Blank]**

Relinquished by: **[Signature]** Date: **[Blank]** Received by: **[Signature]** Date: **[Blank]**

Relinquished by: **[Signature]** Date: **[Blank]** Received by: **[Signature]** Date: **[Blank]**

ADDITIONAL REMARKS: **Temperature at receipt: 16.1°C**
Losor #2
16.1°C
15W
 Report to State? (Circle) **Yes** **No**

* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.
 † GAL cannot always accept verbal changes. Please fax or email written change requests.
 Just Click Printing Form #17-0301



ANALYTICAL
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

FORM-006
COC - Revision 6.0

pg 2 of 4

Company or Client: **ETS / Morning Star**
Address: **479 Wolverine Drive #9**
City: **Bayfield** State: **CO** Zip: **81122**
Phone #: **970-759-6847 / 970-749-8773**
Contact Person: **Tanner Paulek or Grace Lee**
Email Report to: **tanner.paulek@ets-llc.com**
Project Name (optional): **Caracas 13A Spill**

P.O. #: _____
Company: _____
Attn: _____
Address: _____
City: _____
State: _____ Zip: _____
Phone #: _____
Email: _____

Bill to (if different): _____
ANALYSIS REQUEST

Sample Name or Location	Collected		Matrix (check one)							# of containers				
	Date	Time	GROUNDWATER	SURFACEWATER	WASTEWATER	PRODUCEDWATER	SOIL	DRINKING WATER	OTHER :	No preservation (general)	HNO ₃	HCl	H ₂ SO ₄	Other:
2305-061														
For Lab Use														
11 Caracacas	Plot 6-1	5/3/23 2:15 PM								1				
12 Caracacas	Plot 6-2	5/3/23 2:15 PM												
13 Caracacas	Plot 7-1	5/3/23 1:47 PM												
14 Caracacas	Plot 7-2	5/3/23 1:47 PM												
15 Caracacas	Plot 8-1	5/3/23 1:37 PM												
16 Caracacas	Plot 8-2	5/3/23 1:37 PM												
17 Caracacas	Plot 9-1	5/3/23 1:32 PM												
18 Caracacas	Plot 9-2	5/3/23 1:32 PM												
19 Caracacas	Plot 10-1	5/3/23 1:20 PM												
20 Caracacas	Plot 10-2	5/3/23 1:20 PM												

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Relinquished by: **Qua fee** Date: **5/14/23** Received by: **W. G. M. D.**
Time: **9:45 AM**

Relinquished by: _____ Date: _____ Received by: _____
Time: _____

Relinquished by: _____ Date: _____ Received by: _____
Time: _____

Relinquished by: _____ Date: _____ Received by: _____
Time: _____

ADDITIONAL REMARKS: **Losar #2**
Temperature at receipt: **15W 16.1°** CHECKED BY: **15W**
Report to State? (Circle) **Yes** **No**
On Ice No Ice



(970) 247-4220
 Fax: (970) 247-4227
 dzufelt@greenanalytical.com
 75 Suttle St Durango, CO 81303

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

FORM-006
 COC - Revision 6.0

pg 4 of 9

Company or Client: ETS / Morningstar		Address: 749 Wolverine Drive #9		City: Bayfield		State: CO		Zip: 81822		P.O. #:		Bill to (if different):	
Phone #: 970-759-6847 / 970-749-8775		Contact Person: Tanner Pawlek or Grace Lee		Email Report to: tanner-pawlek@ets-llc.com		Project Name(optional): Carracas 231A spill		Sampler Name (Print): Tanner Pawlek 3 Grace Lee		Matrix (check one)		# of containers	
For Lab Use		Sample Name or Location		Date		Time		GROUNDWATER		SURFACEWATER		WASTEWATER	
2305-061		Carracas Plot 16-1		5/3/23		11:56 AM		PRODUCED WATER		SOIL		DRINKING WATER	
		Carracas Plot 16-2		5/3/23		11:56 AM		OTHER :		No preservation (general)		HNO ₃	
		Carracas Plot 17-1		5/3/23		11:40 AM		HCl		H ₂ SO ₄		Other:	
		Carracas Plot 17-2		5/3/23		11:40 AM		Other:		BTEX		TPH	
		Carracas Plot 18-1		5/3/23		11:26 AM							
		Carracas Plot 18-2		5/3/23		11:16 AM							
		Carracas Plot 19-1		5/3/23		10:43 AM							
		Carracas Plot 19-2		5/3/23		10:43 AM							
		Carracas Plot 20-1		5/3/23		10:16 AM							
		Carracas Plot 20-2		5/3/23		10:16 AM							

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Relinquished by: *free Joe* Date: 5/14/23 Time: 9:45am Received by: *MSW*

Relinquished by: _____ Date: _____ Time: _____ Received by: _____

Relinquished by: _____ Date: _____ Time: _____ Received by: _____

Relinquished by: _____ Date: _____ Time: _____ Received by: _____

Relinquished by: _____ Date: _____ Time: _____ Received by: _____

ADDITIONAL REMARKS: *Laser #2*

Report to State? (Circle) Yes No

Temperature at receipt: *16.1°C* CHECKED BY: *VTW* On Ice No Ice

* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.

† GAL cannot always accept verbal changes. Please fax or email written change requests.



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

FORM-006
COC - Revision 6.0

pg 6 of 9

Company or Client: **ELS / Morningstar**
Address: **4775 Wolverine Drive #9**
City: **Bayfield** State: **CO** zip: **81122**
Phone #: **970-759-6847 / 970-749-8773**
Contact Person: **Tanner Pauler or Grace Lee**
Email Report to: **tanner.pauler@els-flc.com**
Project Name (optional): **Carracas 23 Spill**

P.O. #: _____
Company: _____
Address: _____
City: _____
State: _____ Zip: _____
Phone #: _____
Email: _____

Bill to (if different): _____
ANALYSIS REQUEST

Sampler Name (Print): **Tanner Pauler & Grace Lee**

For Lab Use	Sample Name or Location	Collected		Matrix (check one)							# of containers				
		Date	Time	GROUNDWATER	SURFACEWATER	WASTEWATER	PRODUCEDWATER	SOIL	DRINKING WATER	OTHER :	No preservation (general)	HNO ₃	HCl	H ₂ SO ₄	Other:

2305-061																			
51	Carracas	Control 2-1	5/16/23	8:52 AM															
52	Carracas	Control 2-2	5/3/23	8:52 AM															
53																			
54																			
56																			
514 1502																			

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Relinquished by: **Paul Lee** Date: **5/14/23** Received by: **TPA** Date: **9:45am**

Relinquished by: _____ Date: _____ Received by: _____ Date: _____

Relinquished by: _____ Date: _____ Received by: _____ Date: _____

Relinquished by: _____ Date: _____ Received by: _____ Date: _____

* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

FORM-006
 COC - Revision 6.0

pg 8 of 9

Company or Client: **ETS / Morningstar**
 Address: **479 Wolverine Drive #9**
 City: **Bayfield** State: **CO** Zip: **81122**
 Phone #: **978-759-6847 / 970-749-8773**
 Contact Person: **Tanner Pauler & Grace Lee**
 Email Report to: **tanner.pauler@ets-llc.com**
 Project Name (optional): **Caracas 23A spill**

P.O. #: _____
 Company: _____
 Attn: _____
 Address: _____
 City: _____
 State: _____ Zip: _____
 Phone #: _____
 Email: _____

Bill to (if different): _____
 ANALYSIS REQUEST

Sampler Name (Print): **Tanner Pauler & Grace Lee**
 For Lab Use

Sample Name or Location	Collected		Matrix (check one)							# of containers				
	Date	Time	GROUNDWATER	SURFACEWATER	WASTEWATER	PRODUCEDWATER	SOIL	DRINKING WATER	OTHER :	No preservation (general)	HNO ₃	HCl	H ₂ SO ₄	Other:
2305-061														
63 Caracas	6/3/23	11:56a								1				
64 Caracas	6/3/23	12:14p												
65 Caracas	6/3/23	12:26p												
66 Caracas	6/3/23	12:44p												
67 Caracas	6/3/23	12:58p												
68 Caracas	6/3/23	1:07p												
69 Caracas	6/3/23	1:20p												
70 Caracas	6/3/23	1:32p												
71 Caracas	6/3/23	1:37p												
72 Caracas	6/3/23	1:47p												

Chloride

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Relinquished by: **gru fee** Date: **6/1/23** Time: **9:45am**
 Received by: **MPauler**

Relinquished by: _____ Date: _____ Time: _____
 Received by: _____

Relinquished by: _____ Date: _____ Time: _____
 Received by: _____

Relinquished by: _____ Date: _____ Time: _____
 Received by: _____

ADDITIONAL REMARKS: **Lasov #2**
 Temperature at receipt: **16.1°C**
 CHECKED BY: **WJW**
 Report to State? (Circle) **blue**
 Yes No
 On Ice No Ice
 Just Click Printing Form #17-0301



SAMPLE CONDITION RECEIPT FORM

Client Name: EIS/Morningstar

Work Order # 2305-061

Courier: Fed Ex UPS USPS Client Kangaroo

Custody Seals on Box/Cooler Present: Yes No Seals Intact: Yes No

Thermometer Used: 2 Samples on ice, cooling process has begun: Yes No

Type of Ice: Wet Blue None some samples on ice

Cooler Temp: Observed Temp: 16.1 °C Correction Factor: 0 °C Final Temp: 16.1 °C

* Temp should be above freezing to 6°C

Date/Initials of person examining contents: VJW 5/4/23
Labeled by Initials: _____
(If different than above)

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No	4.
Samples arrived within hold time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Dissolved Testing Needed:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	11.
Field Filtered: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Sample Labels match COC: -Includes Date/Time/ID	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
Matrix:	WT <input checked="" type="checkbox"/> SL <input type="checkbox"/> OT	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____

Attachment V – Correspondence

From: Heather Riley
Sent: Tuesday, May 23, 2023 9:56 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: mhowe@ctfieldsvcs.com; Tanner Paulek <TannerPaulek@eis-llc.com>; Mindy Paulek <Mindy@eis-llc.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Morningstar - Incident #: nAPP2227139978

Good morning Nelson. Soil sampling was completed and the results are in. Attached is an EDD of the results. I have the full report as well but it is close to 100 pages. While there were some detectable constituents, they were well below Table I standards.

At this point, Morningstar would like to submit a C-141 Closure Report which would include a variance request pursuant to 19.15.29.14. Prior to formal submittal, I wanted to communicate with you on the specifics of the variance request. Based on the sampling report results and the soil characteristics, a variance from 19.15.29.13.D.(1) seems appropriate.

The following draft language would be included in the variance request:

According to the USDA NRCS web soil survey the soils within the release area are mapped as 721-Elbuck family, warm, Fort Lewis family, warm, and Lithic Ustorthents, frigid, dry soils, 0 to 40 percent slopes. Based on the location and ground truthing of the release area the soils can be further defined within the setting of Lithic Ustorthents, Frigid, Dry. These soils are described as having a restrictive depth at 0 -20 inches to lithic bedrock. The typical profile is described as having an organic soil layer (Oi) from 0 - 0 inches, an "A" layer of sandy loam from 0 to 2 inches, a "C" layer of loamy sand from 2-10 inches, and a "Cr" soil layer of at 10 – 13 inches. Soil sampling in the field demonstrated a restrictive bedrock layer being encountered anywhere from 0 to 12 inches. The minimal depth of soil within the release area further results from being located within a depressional drainage and the loss of soil from erosion over time.

Morningstar would like to ask for a variance from rule 19.15.29.13.D(1) requiring the reclamation containing a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. This variance is being requested based on the native soil condition having only a minimal cover of 0-20 inches. The remediated and reclaimed release area currently contains a soil cover including a top layer which is similar to the background thickness of topsoil in the area and is suitable material to establish vegetation at the site, as is illustrated by current vegetation growth occurring within the release area.

Please review and let me know if this is appropriate and then I will submit a C-141 with this communication included. Morningstar is reaching out Jicarilla Ranger District USFS for their concurrence on this plan. We will include that communication in the C-141.

Thank you and have a great day.

Heather Riley
Sr. Project Manager



479 Wolverine Drive #9
Bayfield, CO 81122

(970) 749-8747

<https://www.eis-llc.com/eis-environmental-services/>

From: Heather Riley

Sent: Wednesday, April 26, 2023 9:10 AM

To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Cc: mhowe@ctfieldsvcs.com; Tanner Paulek <TannerPaulek@eis-llc.com>; Mindy Paulek <Mindy@eis-llc.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: RE: [EXTERNAL] Morningstar - Incident #: nAPP2227139978

We will give you all a follow-up phone call on Monday. Thanks for the quick response.

Heather Riley
Sr. Project Manager



479 Wolverine Drive #9

Bayfield, CO 81122

(970) 749-8747

<https://www.eis-llc.com/eis-environmental-services/>

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Sent: Wednesday, April 26, 2023 9:08 AM

To: Heather Riley <heatherriley@eis-llc.com>

Cc: mhowe@ctfieldsvcs.com; Tanner Paulek <tannerpaulek@eis-llc.com>; Mindy Paulek <Mindy@eis-llc.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: Re: [EXTERNAL] Morningstar - Incident #: nAPP2227139978

Good morning Heather,

Thanks for the notification. Per 19.15.29.12D (1a) which states, "The responsible party must verbally notify the appropriate division district office two business days prior to conducting final sampling". "Verbally" can mean via telephone, text, or email. OCD preference is by email so that correspondences are transparent. Since the division has restructured its personnel and responsibilities, district office is now referred to as "group".

If you have any questions, please contact me at your convenience. Thanks again.

Regards,

Nelson Velez • Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | nelson.velez@emnrd.nm.gov

<http://www.emnrd.state.nm.us/OCD/>



From: Heather Riley <heatherriley@eis-llc.com>

Sent: Tuesday, April 25, 2023 2:58 PM

To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Cc: mhowe@ctfieldsvcs.com <mhowe@ctfieldsvcs.com>; Tanner Paulek <tannerpaulek@eis-llc.com>; Mindy Paulek <Mindy@eis-llc.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: RE: [EXTERNAL] Morningstar - Incident #: nAPP2227139978

Good afternoon Mr. Velez. Our team is planning on conducting soil sampling at this site on 5/3/2023. They plan to begin at 8:00 am. Please let this serve as notice pursuant to NMOCD rules. Let me know if you'd like additional confirmation of this date on Monday, May 1, which would be 48 hours prior.

Thank you,

Heather Riley
Sr. Project Manager



479 Wolverine Drive #9
Bayfield, CO 81122
(970) 749-8747

<https://www.eis-llc.com/eis-environmental-services/>

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Sent: Tuesday, April 4, 2023 9:49 AM

To: Heather Riley <heatherriley@eis-llc.com>

Cc: mhowe@ctfieldsvcs.com; Tanner Paulek <tannerpaulek@eis-llc.com>; Mindy Paulek <Mindy@eis-llc.com>;

Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: Re: [EXTERNAL] Morningstar - Incident #: nAPP2227139978

Good morning Heather,

After our phone conversation this morning, your time extension is approved. New remediation due date is set for Friday, June 9, 2023.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | nelson.velez@emnrd.nm.gov

<http://www.emnrd.state.nm.us/OCD/>



From: Heather Riley <heatherriley@eis-llc.com>
Sent: Tuesday, April 4, 2023 9:34 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: mhowe@ctfieldsvcs.com <mhowe@ctfieldsvcs.com>; Tanner Paulek <tannerpaulek@eis-llc.com>; Mindy Paulek <Mindy@eis-llc.com>
Subject: RE: [EXTERNAL] Morningstar - Incident #: nAPP2227139978

Good morning Mr. Velez. You and I spoke on the phone a couple of weeks ago concerning the closure deadline of 4/7/2023 and, given the heavy winter weather, there was a good chance an extension would be needed to get the sampling completed. The purpose of this email is to ask for that extension.

I appreciate your time in reviewing this and look forward to your response.

Heather Riley

Sr. Project Manager



479 Wolverine Drive #9
Bayfield, CO 81122
(970) 749-8747
https://www.eis-llc.com/eis-environmental-services/

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Thursday, January 5, 2023 1:51 PM
To: Heather Riley <heatherriley@eis-llc.com>
Cc: mhowe@ctfieldsvcs.com; Tanner Paulek <tannerpaulek@eis-llc.com>; Mindy Paulek <Mindy@eis-llc.com>
Subject: RE: [EXTERNAL] Morningstar - Incident #: nAPP2227139978

Hi Heather,

FYI, I approved application 169128 for the Carracas site, so no need to make the changes to the document we spoke about earlier this morning. I've modified sections 2.0 & 3.0 (page 12) to reflect the appropriate closure standards for the release [applying 19.15.29.13D (1)]. Therefore, OCD's approval of the sampling plan is based on this change of condition.

OCD also approves a 90-day time extension for the closure report deadline (April 7, 2023). This has already been updated within the site's incident page.

Lastly, I've included the spill rule clarification document drafted in 2019.

If you have any questions, please contact me at your convenience.

Regards,

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/



From: Heather Riley <heatherriley@eis-llc.com>
Sent: Friday, December 30, 2022 12:01 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Cc: mhowe@ctfieldsvcs.com; Tanner Paulek <tannerpaulek@eis-llc.com>; Mindy Paulek <Mindy@eis-llc.com>
Subject: RE: [EXTERNAL] Morningstar - Incident #: nAPP2227139978

Good morning Nelson. I just submitted a C-141 with the Site Characterization completed as much as we can with the data we have. I also submitted a Soil Sample plan that we would appreciate if you have time to review and let us know if it meets with your approval. We would like to get the sampling scheduled as soon as possible. This storm is not helping the timing.

Thank you,

Heather Riley
Sr. Project Manager



479 Wolverine Drive #9
Bayfield, CO 81122
(970) 749-8747
<https://www.eis-llc.com/eis-environmental-services/>

From: Heather Riley
Sent: Wednesday, December 21, 2022 2:36 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: mhowe@ctfieldsvcs.com; Tanner Paulek <TannerPaulek@eis-llc.com>; Mindy Paulek <Mindy@eis-llc.com>
Subject: RE: [EXTERNAL] Morningstar - Incident #: nAPP2227139978

Thank you Nelson. We will get this done right away.

Heather Riley
Sr. Project Manager



479 Wolverine Drive #9
Bayfield, CO 81122
(970) 749-8747
<https://www.eis-llc.com/eis-environmental-services/>

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Wednesday, December 21, 2022 1:04 PM

To: Heather Riley <heatherriley@eis-llc.com>
Cc: mhowe@ctfieldsvcs.com; Tanner Paulek <tannerpaulek@eis-llc.com>; Mindy Paulek <Mindy@eis-llc.com>
Subject: RE: [EXTERNAL] Morningstar - Incident #: nAPP2227139978

Hi Heather,

Good to talk with you this morning. As I mentioned, please have MorningStar submit the initial Form C-141 (pages 1 & 2 only) through OCD's C-141 permitting portal as soon as possible.

OCD will grant a time extension for 30 days (01/27/2023) under the condition that the MorningStar provide, at a minimum, the site assessment/characterization items (page 3 of the C-141) that can be **administratively completed** by 12/30/2022 via email to myself &/or OCD.enviro@emnrd.nm.gov.

Sampling plan mentioned can/should be included as well per 19.15.29.12D (1b). Lab COCRs, site maps, & summary table(s) should all correlate appropriately and should include sampling depths relative to grade.

Per 19.15.29.12D (1a), MorningStar must verbally (or by email) notify OCD two (2) business days in advance prior to conducting any confirmation sampling. MorningStar may request a variance from this requirement upon a showing of good cause.

Please assure that 19.15.29.12C (2) and 19.15.29.13D (1) are addressed properly within your sampling plan.

Lastly, when submitting the final closure report, please review and include all applicable requirements per 19.15.29.11 & 19.15.29.12 NMAC.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, confirmation sample events, spill/release/fire, and request for time extensions or variances.

If you have any questions, please do not hesitate to contact me at your convenience.

Thank you again for contacting and updating me regarding this incident.

Regards

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov *NOTE NEW EMAIL ADDRESS*
<http://www.emnrd.state.nm.us/OCD/>



From: Heather Riley <heatherriley@eis-llc.com>
Sent: Tuesday, December 20, 2022 5:00 PM

To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: mhowe@ctfieldsvcs.com; Tanner Paulek <tannerpaulek@eis-llc.com>; Mindy Paulek <Mindy@eis-llc.com>
Subject: [EXTERNAL] Morningstar - Incident #: nAPP227139978

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon Mr. Velez.

I work for EIS Environmental & Permitting Solutions and we have been hired by Mike Howe at Morningstar to assist with the reporting, sampling & site characterization requirements for the incident under number nAPP227139978 (API #30-039-27550). This incident occurred on 9/27/2022 and an initial report of the incident was submitted on 9/27/2022. The source of the spill was stopped and remediation was conducted immediately after the spill through the supervision of the Carson National Forest, Jicarilla Ranger District personnel. The next step is to conduct the site assessment and characterization and submit a C-141. After visiting the spill site with Morningstar, we have a sample plan drafted and plan to get to the field to get those pulled.

I have a couple of questions for you. Do you want to see the sample plan ahead of time and give your approval or do you just want the prior notice of the date for sampling? My second question is can we get an extension for submittal of the C-141 that is required to be submitted within 90 days of the discovery of the release? The date this report is due is on 12/26/2022 and I don't believe we can get the sampling and results back in that time frame. The last question is when would be a good time to for you to witness the sampling? We can schedule it when it is convenient for you. If you are not the person assigned to this spill, please let me know who I should reach out to.

Thank you for your time.

Heather Riley
Sr. Project Manager



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(970) 749-8747
<https://www.eis-llc.com/eis-environmental-services/>

FW: EXTERNAL:RE: [External Email]Carracas 23A #4 Rig Spill

Heather Riley <heatherriley@eis-llc.com>

Mon 6/5/2023 11:09 AM

To:Lisa Paulek <lisapaulek@eis-llc.com>

Cc:Mindy Paulek <Mindy@eis-llc.com>;Tanner Paulek <tannerpaulek@eis-llc.com>

Lisa – this email should be included in the correspondence section of the report.

From: Mike Howe <MHowe@ctfieldsvcs.com>
Sent: Monday, June 5, 2023 10:56 AM
To: Heather Riley <heatherriley@eis-llc.com>
Subject: FW: EXTERNAL:RE: [External Email]Carracas 23A #4 Rig Spill

Heather,

Please see the Forest ranger’s response to the variance request in the text below. Thanks!



PO Box 820
811 S. Main Ave.
Aztec, NM 87410

Mike Howe
Production Foreman
MorningStar Operating LLC
Office 505.333.4869
Cell 505.330.3058
mhowe@ctfieldsvcs.com

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From: Miller, Jon - FS, NM <jon.miller@usda.gov>
Sent: Thursday, June 1, 2023 12:54 PM
To: Mike Howe <MHowe@ctfieldsvcs.com>
Cc: Eaton, William - FS, NM <william.eaton@usda.gov>; Miller, Rachel - FS, NM <rachel.m.miller@usda.gov>
Subject: EXTERNAL:RE: [External Email]Carracas 23A #4 Rig Spill

This email contains a link!

This email contains a World Wide Web link. Use caution when following links as they could open malicious web sites.

- Helpdesk

Mike,

I did a site visit of the Carracas 23 A #4 well location and spill area yesterday. Based on the level of spill mitigation and overall condition of the spill area the Forest Service concurs with your assessment that adding material would be unnecessary.

However, please make sure that all unused equipment is removed from the location. Please see photo below:



Please provide a final copy of the spill report. Thank you. J.J.



J.J. Miller
Minerals Administrator
Forest Service
Carson National Forest, Jicarilla Ranger District
p: 505-632-2956 x77240
c: 505-320-1879
f: 505-632-3173
jon.miller@usda.gov
1110 Rio Vista Lane, Unit #2
Bloomfield, NM 87413
www.fs.fed.us

Caring for the land and serving people

From: Miller, Jon - FS, NM
Sent: Thursday, May 25, 2023 9:53 AM
To: 'Mike Howe' <MHowe@ctfieldsvcs.com>
Cc: Eaton, William - FS, NM <william.eaton@usda.gov>; Miller, Rachel - FS, NM <rachel.m.miller@usda.gov>
Subject: RE: [External Email]Carracas 23A #4 Rig Spill

Mike,

I do not think there will be an issue. I am going to try to get up to Carracas next week, so let me take a look.

Thanks. J.J.



J.J. Miller
Minerals Administrator
Forest Service
Carson National Forest, Jicarilla Ranger District

p: 505-632-2956 x77240
c: 505-320-1879
f: 505-632-3173
jon.miller@usda.gov

1110 Rio Vista Lane, Unit #2
Bloomfield, NM 87413
www.fs.fed.us



Caring for the land and serving people

From: Mike Howe <MHowe@ctfieldsvcs.com>
Sent: Wednesday, May 24, 2023 7:21 AM
To: Miller, Jon - FS, NM <jon.miller@usda.gov>
Subject: [External Email]Carracas 23A #4 Rig Spill

[External Email]

If this message comes from an **unexpected sender** or references a **vague/unexpected topic**,
Use caution before clicking links or opening attachments.
Please send any concerns or suspicious messages to: Spam.Abuse@usda.gov

JJ,

We finished up with the soil testing on this spill...it cleared in all areas. The State has a clause in their rule that requires the operator to pad the clean spill area with 4" of dirt, though. While I think that is a good idea if the spill was inside a berm, I don't think it's a good idea in this case. The affected spill area blends in with the surrounding non-affected area to the point that there is no visual difference. We can bypass the clause if you approve a variance. What do you think?



PO Box 820
811 S. Main Ave.
Aztec, NM 87410

Mike Howe
Production Foreman
MorningStar Operating LLC
Office 505.333.4869
Cell 505.330.3058
mhowe@ctfieldsvcs.com

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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 224271

CONDITIONS

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 224271
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Closure report with variance requested is approved. Release resolved.	9/1/2023